

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P191758

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-AFL-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39824 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

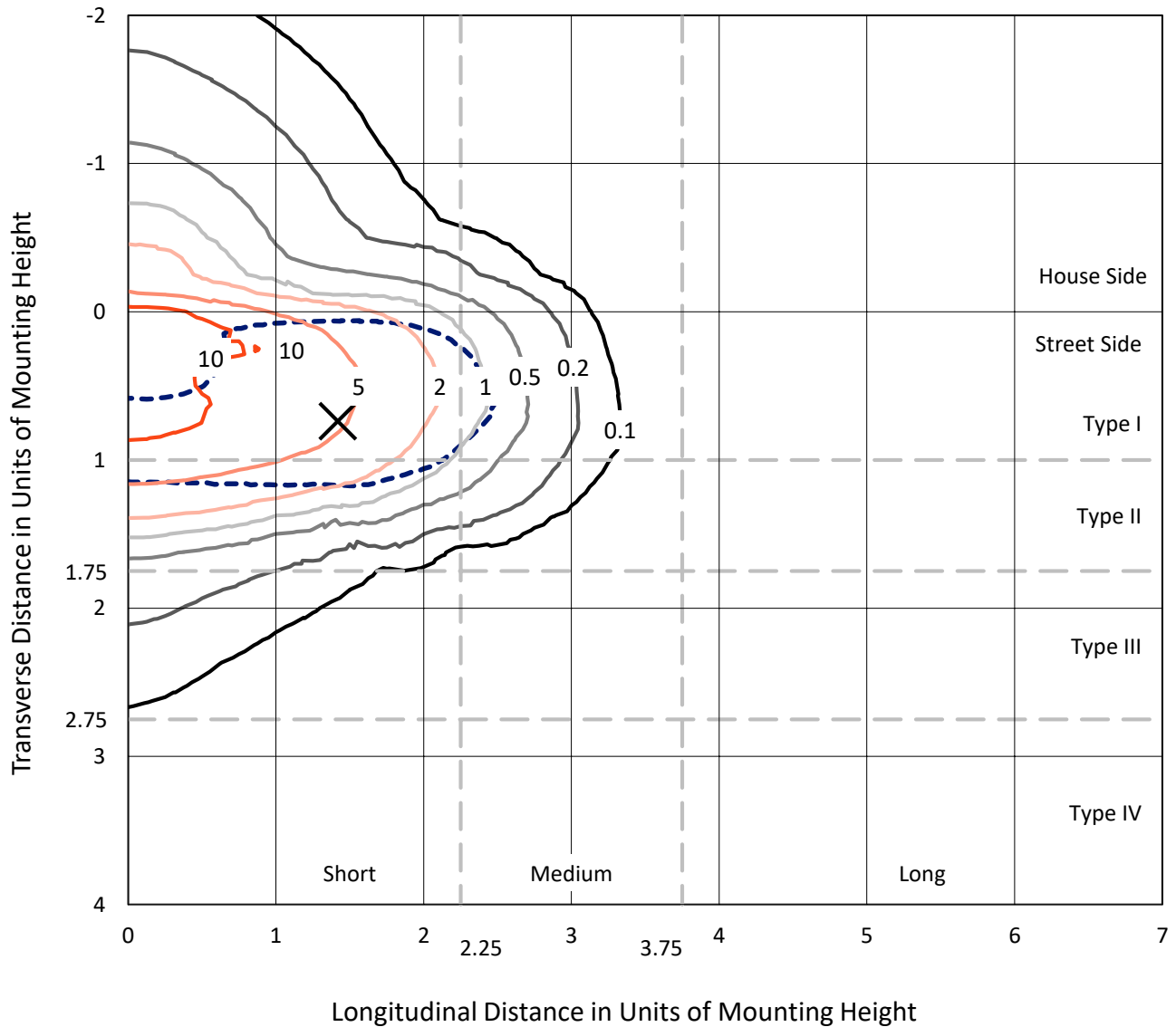


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Iso-Footcandle Lines of Horizontal Illumination

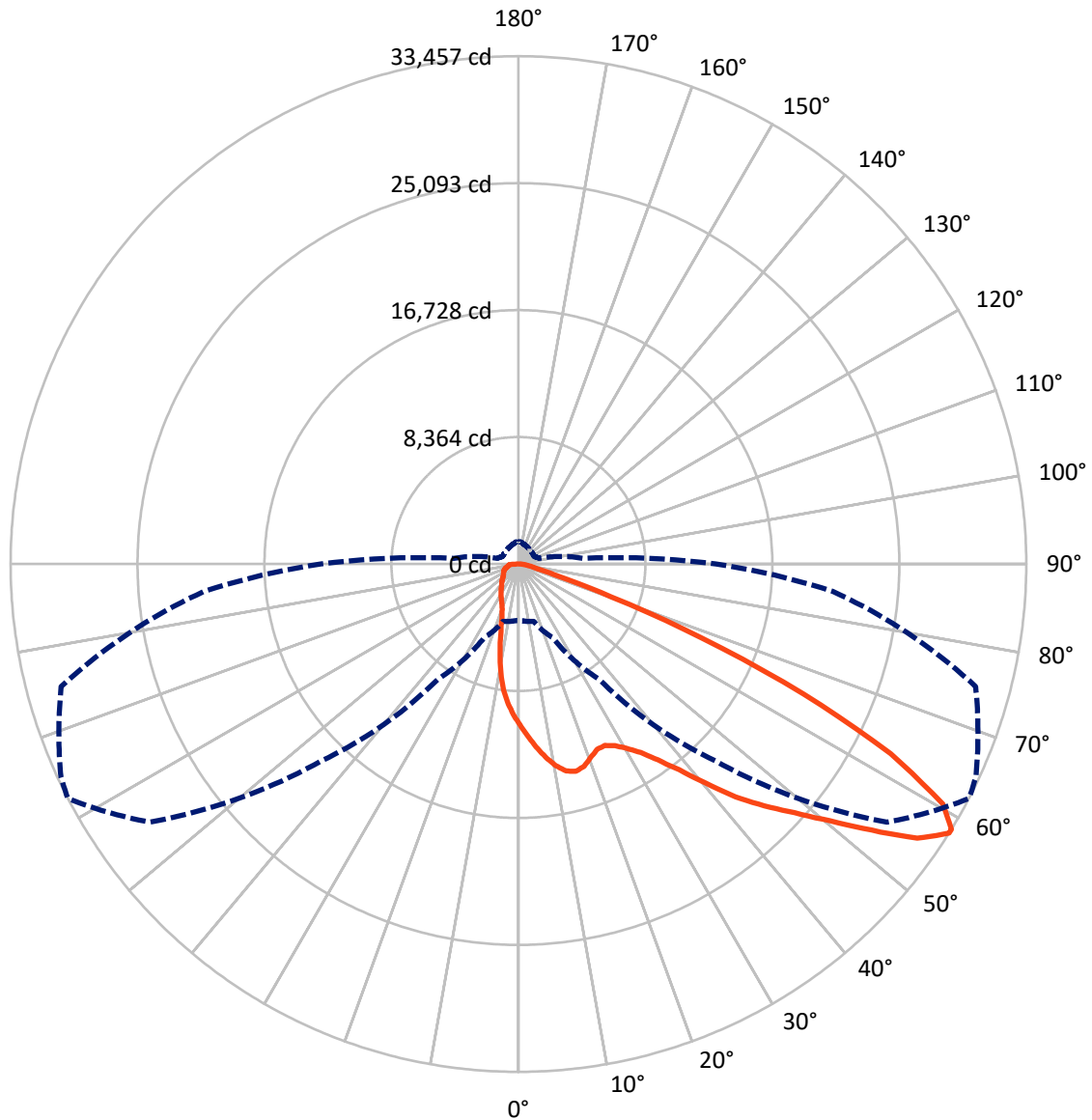
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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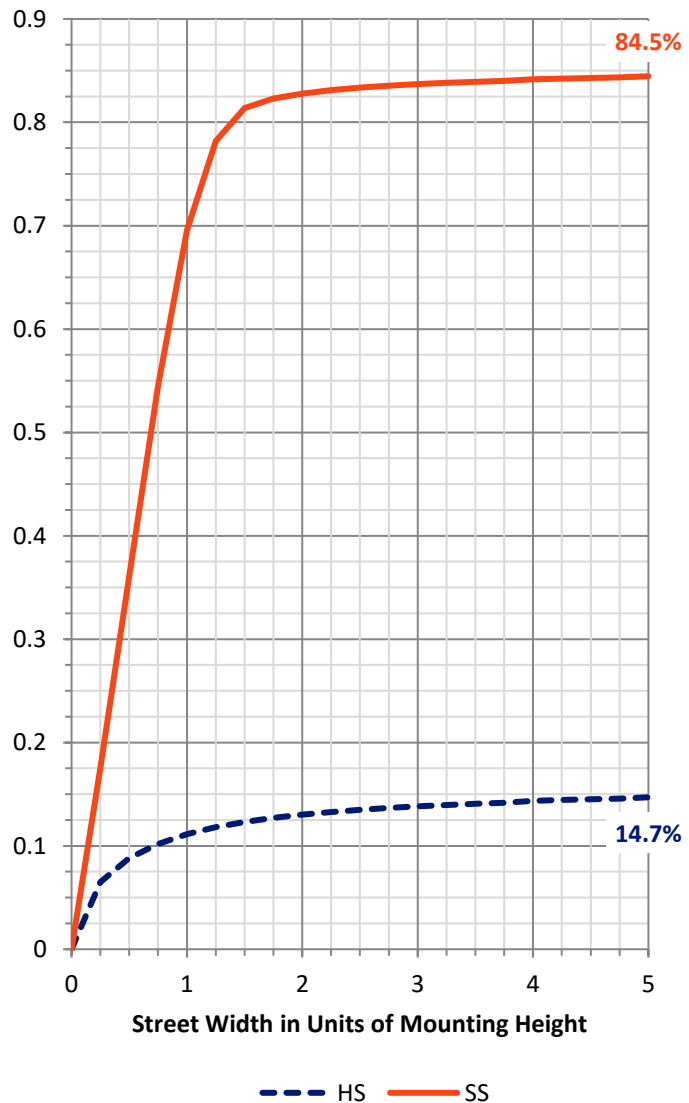
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6073.3	0.0	6073.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	33750.7	0.0	33750.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	39824.0	0.0	39824.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	946.1	2.4
10°-20°	2418.3	6.1
20°-30°	3909.3	9.8
30°-40°	6206.0	15.6
40°-50°	9080.7	22.8
50°-60°	9497.7	23.8
60°-70°	5611.2	14.1
70°-80°	1580.7	4.0
80°-90°	573.9	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	39824.0	100.0
0°-180°	39824.0	100.0



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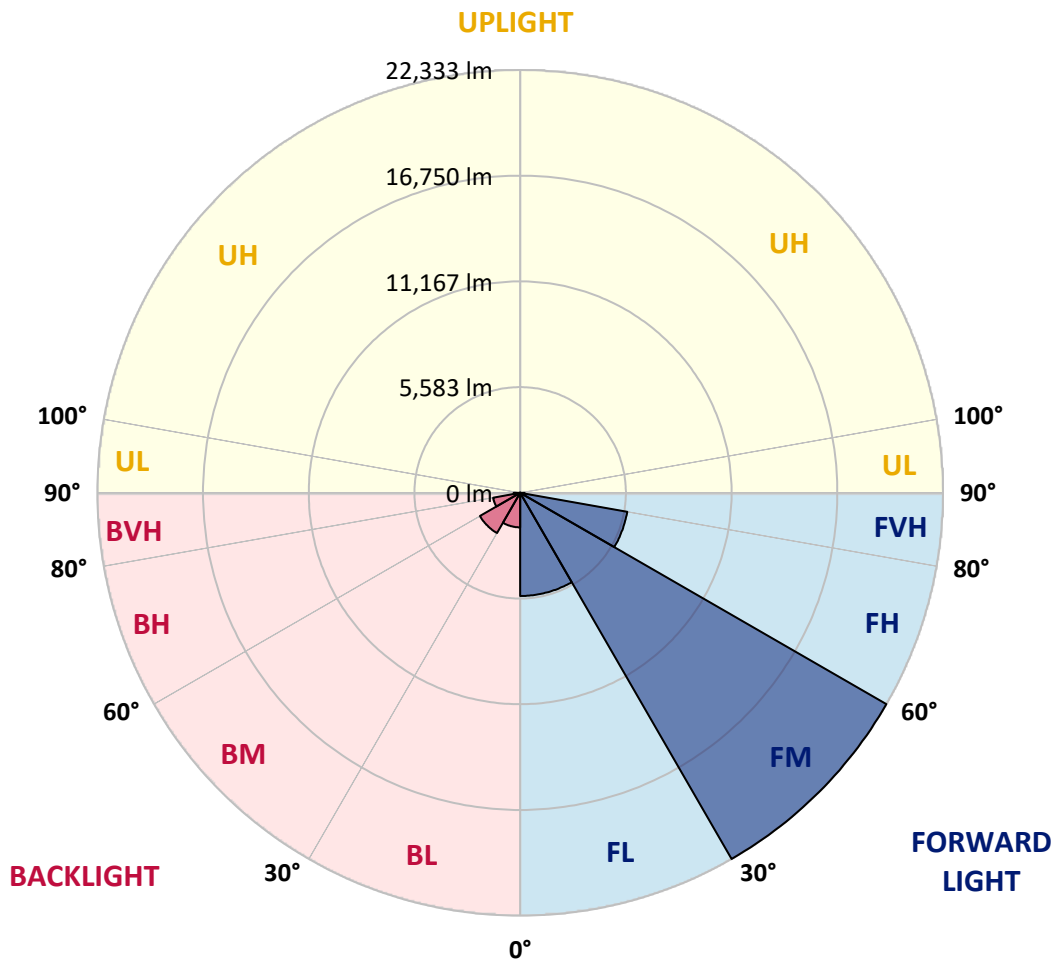
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5448.4	13.7			
FM (30°-60°)	22333.1	56.1			
FH (60°-80°)	5742.8	14.4			G3/7500
FVH (80°-90°)	226.4	0.6			G3/500
BL (0°-30°)	1825.3	4.6	B3/2500		
BM (30°-60°)	2451.3	6.2	B2/2500		
BH (60°-80°)	1449.2	3.6	B3/2500		G3/2500
BVH (80°-90°)	347.5	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	10578.4	10578.4	10578.4	10578.4	10578.4	10578.4	10578.4	10578.4	10578.4	10578.4	10578.4
2.5°	12088.0	11990.5	11928.6	11874.3	11803.0	11651.1	11446.7	11317.3	11251.7	11028.5	10764.1
5°	13273.2	13186.9	13123.2	13050.0	12922.5	12684.4	12354.3	12091.8	11962.4	11516.1	10987.2
7.5°	12995.7	13031.3	13141.9	13335.1	13500.1	13468.2	13173.8	12840.0	12669.4	12048.7	11246.0
10°	11322.9	11384.8	11576.1	12028.0	12759.4	13509.5	13738.3	13507.6	13335.1	12575.6	11512.3
12.5°	10987.2	10985.4	11000.4	11120.4	11555.5	12611.2	13757.0	13989.6	13886.4	13078.2	11784.2
15°	11124.1	11127.9	11116.6	11167.3	11302.3	11720.5	13183.2	14175.2	14248.4	13584.5	12065.5
17.5°	11484.2	11474.8	11431.7	11431.7	11480.4	11643.6	12508.1	14002.7	14340.2	14032.7	12313.1
20°	12088.0	12044.9	11930.5	11825.5	11773.0	11861.1	12230.6	13605.1	14180.8	14424.6	12517.5
22.5°	12819.4	12785.6	12600.0	12374.9	12193.0	12191.2	12373.1	13258.2	13905.2	14794.1	12690.0
25°	13764.5	13710.1	13434.5	13074.4	12755.6	12633.7	12684.4	13241.3	13755.2	15195.4	12843.8
27.5°	14874.7	14775.3	14449.0	13929.6	13460.7	13215.1	13141.9	13547.0	13892.0	15692.3	13057.6
30°	16221.1	16106.7	15688.6	15011.6	14349.6	13946.4	13790.8	14089.0	14345.9	16298.0	13400.7
32.5°	17753.2	17588.2	17104.4	16358.0	15487.9	14872.8	14619.7	14805.3	15009.7	17027.5	13830.2
35°	19870.4	19673.5	18974.0	17944.5	16961.9	16116.1	15711.1	15846.1	16044.9	18115.2	14450.9
37.5°	21314.4	21226.3	20761.2	19793.5	18724.6	17751.4	17125.0	17203.8	17316.3	19474.7	15246.0
40°	21301.3	21336.9	21346.3	21355.6	20628.0	19696.0	19022.8	18940.3	18917.8	20967.5	16149.9
42.5°	20234.2	20380.5	20853.1	21811.3	22253.9	21826.3	21209.4	20971.2	20853.1	22726.5	17108.1
45°	18600.9	18679.6	19564.8	21436.3	23086.5	23936.0	23469.1	22719.0	22505.2	24343.0	17903.3
47.5°	17758.9	17845.1	18402.1	20442.4	23077.2	25640.7	25910.7	24481.7	24099.2	25749.4	18589.6
50°	15754.2	15934.2	16635.6	18713.4	22235.2	26424.5	28462.9	26582.0	25790.7	27118.4	19277.8
52.5°	12073.0	12350.6	13136.3	15870.5	20099.2	26036.3	30505.1	29128.7	28011.0	28536.1	19868.6
55°	7615.5	7821.8	8481.9	11208.5	16078.6	24016.7	31279.6	31883.5	30889.6	29878.8	20380.5
57.5°	4140.6	4232.5	4480.0	6188.4	10458.4	19551.6	30150.7	33451.2	33038.6	31018.9	20766.8
58°	3705.5	3767.4	3921.2	5363.3	9275.1	18330.8	29650.0	33456.8	33250.5	31185.8	20796.8
60°	2749.2	2717.3	2580.4	3060.5	5162.6	12663.7	26623.3	32117.9	32723.6	31390.3	20650.5
62.5°	2415.4	2338.5	2059.1	2027.2	2511.0	5834.0	20371.1	27512.2	28943.0	30223.8	19761.7
65°	2269.1	2186.6	1826.5	1710.3	1811.5	2467.9	11999.9	20633.7	22428.3	26687.1	17488.8
67.5°	2160.3	2053.4	1678.4	1519.0	1526.5	1631.5	4810.1	12995.7	15015.3	20262.4	13603.3
70°	2055.3	1939.0	1552.7	1369.0	1325.8	1290.2	1912.8	6505.3	8337.5	12798.8	8673.2
72.5°	1942.8	1828.4	1442.1	1250.8	1166.4	1048.3	1248.9	2661.0	3716.8	6055.3	3934.3
75°	1779.6	1676.5	1331.4	1145.8	1025.8	868.3	943.3	1389.6	1667.1	2411.6	1895.9
77.5°	1579.0	1494.6	1207.7	1059.5	909.5	705.1	725.7	963.9	1068.9	1380.2	1127.0
80°	1134.5	1164.5	1074.5	952.6	810.1	572.0	557.0	703.2	759.5	887.0	733.2
82.5°	797.0	813.9	888.9	778.2	669.5	450.1	410.7	495.1	528.8	583.2	395.7
85°	549.5	530.7	609.5	542.0	483.8	300.0	281.3	335.7	356.3	361.9	204.4
87.5°	330.0	330.0	352.6	290.7	260.7	155.6	151.9	191.3	204.4	195.0	112.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10578.4	10578.4	10578.4	10578.4	10578.4	10578.4	10578.4	10578.4	10578.4	10578.4	10578.4
2.5°	10606.6	10473.4	10190.3	9963.3	9676.4	9378.3	9211.4	9033.2	8911.3	8823.2	8963.8
5°	10687.2	10415.3	9830.2	9275.1	8661.9	8024.3	7540.5	7090.4	6777.2	6582.2	6766.0
7.5°	10814.7	10396.5	9464.5	8515.6	7414.8	6353.4	5404.5	4810.1	4463.2	4292.5	4399.4
10°	10961.0	10366.5	9035.1	7486.1	5910.9	4573.8	3864.9	3624.9	3546.1	3514.3	3529.3
12.5°	11082.9	10302.8	8508.1	6240.9	4438.8	3611.8	3407.4	3401.8	3418.6	3422.4	3428.0
15°	11169.1	10209.0	7726.1	4943.2	3549.9	3291.1	3279.9	3313.6	3345.5	3358.6	3366.1
17.5°	11227.3	10015.9	6842.9	3908.1	3180.5	3135.5	3161.7	3204.8	3238.6	3248.0	3255.5
20°	11221.7	9732.7	5790.9	3259.2	2979.8	2979.8	3024.8	3058.6	3060.5	3049.2	3054.8
22.5°	11163.5	9344.5	4770.7	2914.2	2801.7	2833.5	2878.5	2846.7	2715.4	2629.1	2634.8
25°	11066.0	8881.3	3896.8	2694.8	2636.6	2692.9	2679.8	2439.7	2252.2	2167.8	2167.8
27.5°	10979.7	8333.7	3225.5	2503.5	2471.6	2541.0	2308.5	2090.9	2012.2	1972.8	1959.7
30°	10917.9	7743.0	2777.3	2319.7	2316.0	2265.3	2002.8	1942.8	1929.7	1897.8	1886.5
32.5°	10932.9	7144.8	2490.4	2158.4	2171.6	1939.0	1856.5	1869.7	1858.4	1824.6	1809.6
35°	11056.6	6576.6	2302.8	2012.2	1972.8	1751.5	1770.3	1794.6	1790.9	1744.0	1729.0
37.5°	11277.9	6038.4	2179.1	1890.3	1721.5	1657.7	1687.7	1725.3	1715.9	1684.0	1672.7
40°	11510.4	5532.1	2077.8	1794.6	1573.4	1594.0	1620.2	1640.9	1650.2	1659.6	1652.1
42.5°	11737.4	5003.2	1954.0	1697.1	1511.5	1534.0	1545.2	1565.9	1616.5	1652.1	1650.2
45°	11872.4	4506.3	1826.5	1558.4	1462.7	1475.8	1468.3	1509.6	1571.5	1629.6	1631.5
47.5°	12022.4	4120.0	1725.3	1430.8	1415.8	1425.2	1402.7	1444.0	1500.2	1571.5	1579.0
50°	12204.3	3889.3	1644.6	1329.6	1352.1	1352.1	1346.4	1384.0	1462.7	1545.2	1560.2
52.5°	12410.6	3844.3	1577.1	1256.4	1288.3	1286.4	1292.1	1348.3	1434.6	1515.2	1528.4
55°	12661.9	3966.2	1504.0	1202.1	1226.4	1233.9	1252.7	1316.4	1389.6	1481.5	1487.1
57.5°	12954.4	4213.7	1445.8	1158.9	1170.2	1194.6	1224.6	1282.7	1361.5	1462.7	1468.3
58°	13003.2	4266.3	1436.5	1155.2	1158.9	1187.1	1220.8	1277.1	1355.8	1466.5	1472.1
60°	13005.0	4440.7	1415.8	1138.3	1115.8	1162.7	1200.2	1256.4	1346.4	1479.6	1492.7
62.5°	12543.7	4438.8	1400.8	1113.9	1070.8	1128.9	1172.0	1237.7	1337.1	1511.5	1537.7
65°	11045.4	4033.7	1329.6	1076.4	1035.2	1098.9	1147.7	1224.6	1363.3	1650.2	1667.1
67.5°	8639.4	3306.1	1196.4	1023.9	988.3	1068.9	1132.7	1222.7	1391.5	1682.1	1693.4
70°	5712.1	2473.5	1050.2	963.9	939.5	1033.3	1140.2	1286.4	1359.6	1614.6	1584.6
72.5°	2964.8	1736.5	932.0	888.9	883.3	1001.4	1248.9	1278.9	1327.7	1519.0	1481.5
75°	1556.5	1205.8	828.9	806.4	815.7	993.9	1474.0	1245.2	1286.4	1453.3	1524.6
77.5°	952.6	973.3	740.7	731.4	750.1	971.4	1472.1	1202.1	1226.4	1337.1	1415.8
80°	637.6	789.5	673.2	675.1	688.2	888.9	1322.1	1134.5	1153.3	1263.9	1344.6
82.5°	403.2	466.9	611.3	643.2	626.3	733.2	1123.3	1033.3	1059.5	1445.8	1528.4
85°	204.4	292.5	530.7	618.8	564.5	513.8	911.4	905.8	918.9	1042.7	1089.5
87.5°	93.8	161.3	414.4	540.1	425.7	320.7	662.0	671.3	723.9	740.7	740.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)