

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: P300392

Luminaire Tested: **GLNA-AF-07-LED-E1-AFL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300392
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: GLNA-AF-07-LED-E1-AFL-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33638.8 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

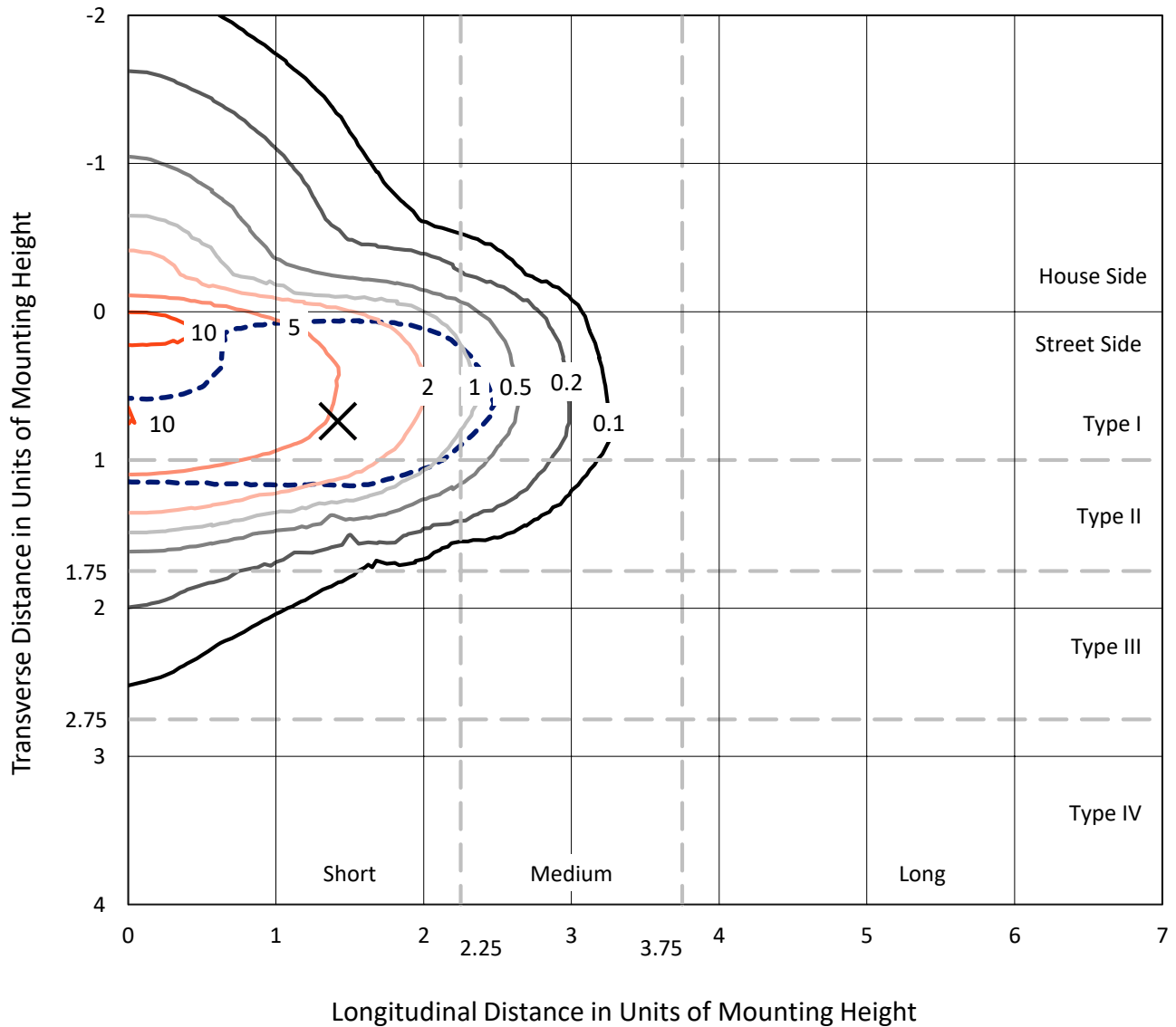
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

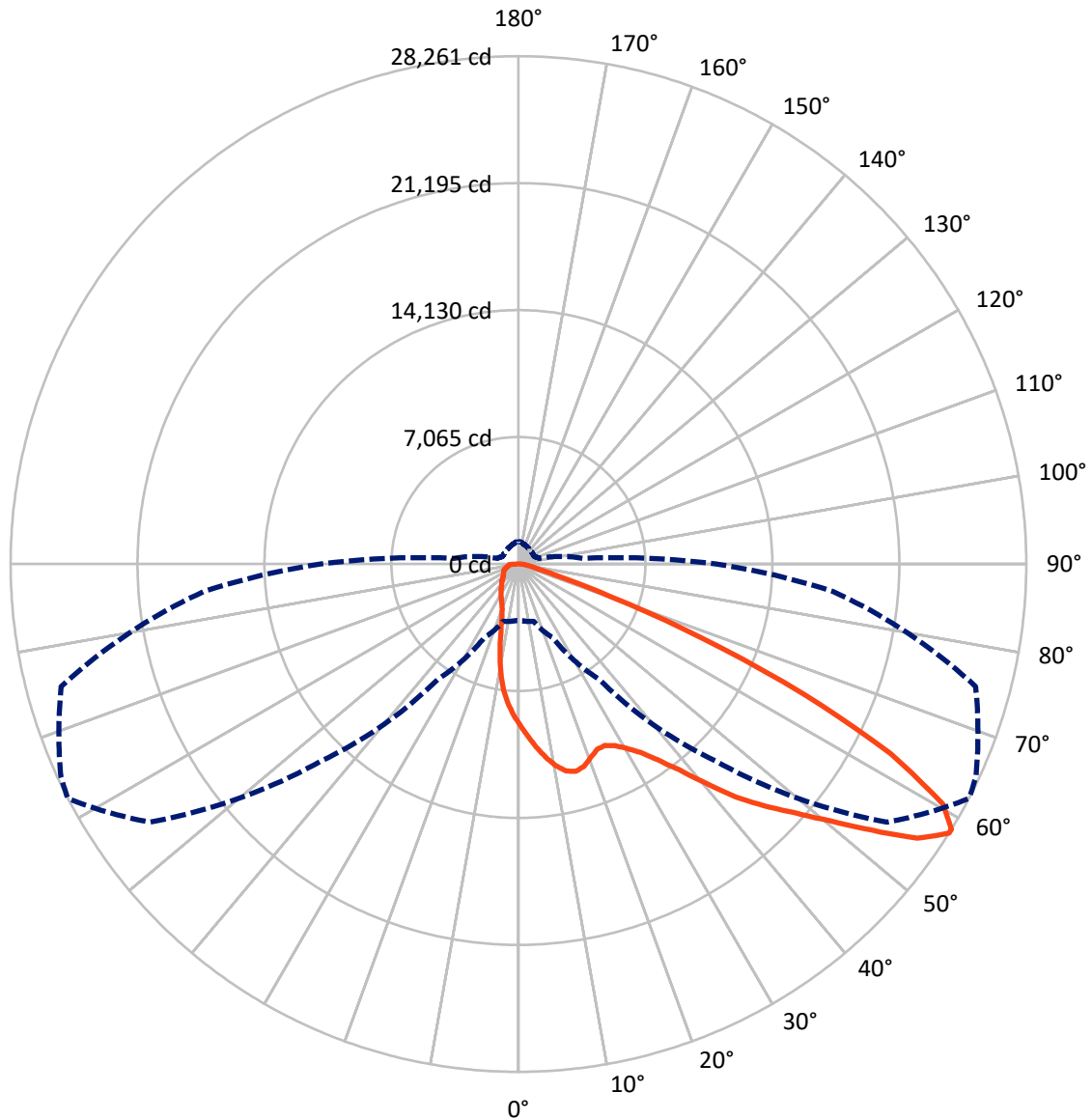
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 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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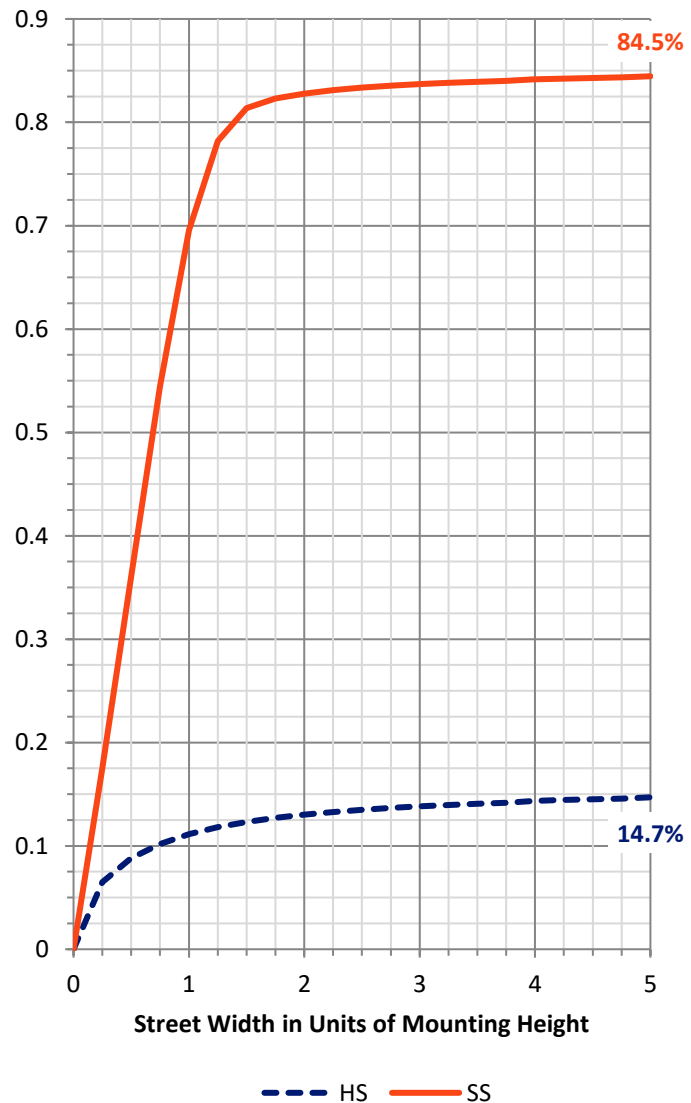
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5130.0	0.0	5130.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	28508.7	0.0	28508.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	33638.8	0.0	33638.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	799.1	2.4
10°-20°	2042.7	6.1
20°-30°	3302.2	9.8
30°-40°	5242.1	15.6
40°-50°	7670.4	22.8
50°-60°	8022.5	23.8
60°-70°	4739.7	14.1
70°-80°	1335.2	4.0
80°-90°	484.8	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°	33638.8	100.0
0°-180°	33638.8	100.0



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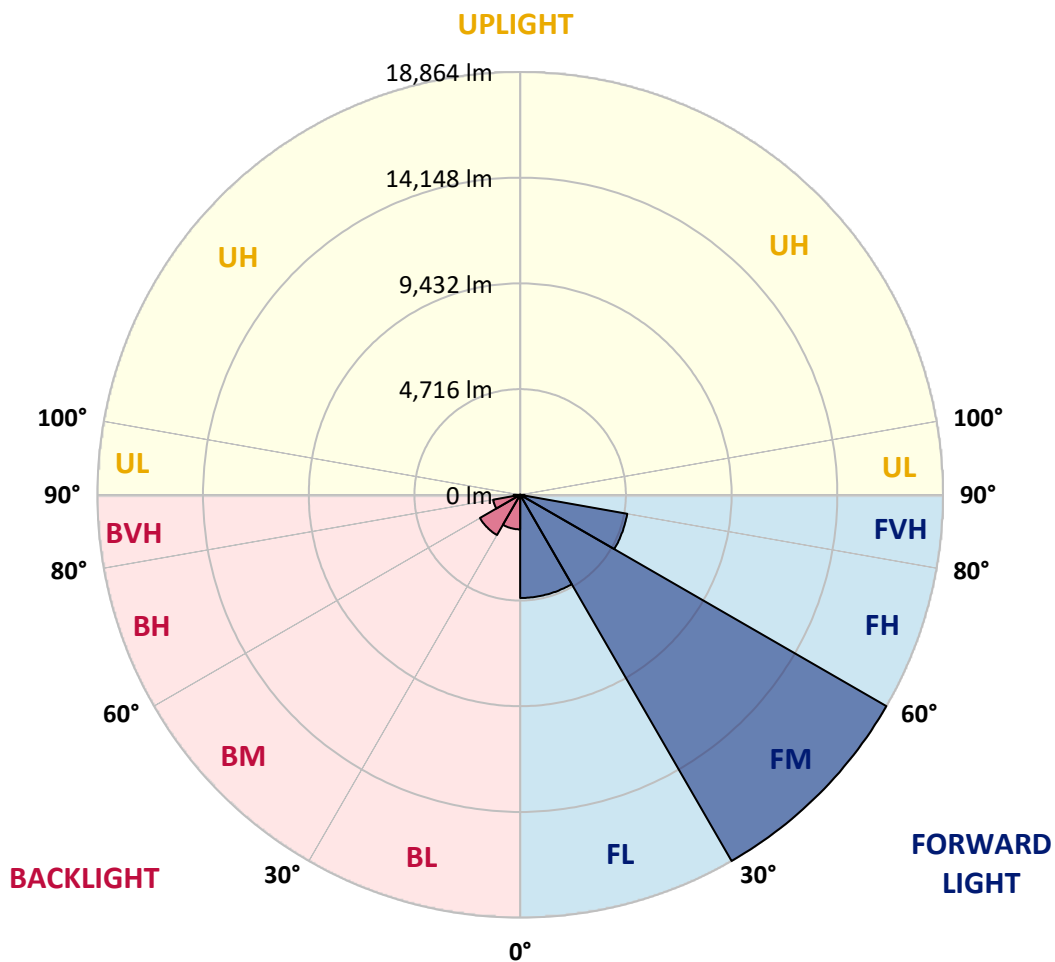
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4602.2	13.7			
FM (30°-60°)	18864.4	56.1			
FH (60°-80°)	4850.9	14.4			G2/5000
FVH (80°-90°)	191.2	0.6			G2/225
BL (0°-30°)	1541.8	4.6	B3/2500		
BM (30°-60°)	2070.6	6.2	B2/2500		
BH (60°-80°)	1224.1	3.6	B3/2500		G3/2500
BVH (80°-90°)	293.5	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°	8935.5	8935.5	8935.5	8935.5	8935.5	8935.5	8935.5	8935.5	8935.5	8935.5	8935.5
2.5°	10210.6	10128.2	10076.0	10030.0	9969.8	9841.5	9668.9	9559.6	9504.1	9315.6	9092.3
5°	11211.7	11138.8	11085.0	11023.2	10915.5	10714.3	10435.5	10213.8	10104.5	9727.5	9280.8
7.5°	10977.3	11007.4	11100.8	11264.0	11403.4	11376.4	11127.7	10845.8	10701.6	10177.3	9499.4
10°	9564.3	9616.6	9778.2	10159.9	10777.7	11411.3	11604.5	11409.7	11264.0	10622.4	9724.3
12.5°	9280.8	9279.2	9291.9	9393.2	9760.7	10652.5	11620.4	11816.8	11729.7	11047.0	9954.0
15°	9396.4	9399.6	9390.1	9432.8	9546.9	9900.1	11135.7	11973.6	12035.4	11474.6	10191.6
17.5°	9700.5	9692.6	9656.2	9656.2	9697.4	9835.2	10565.4	11827.9	12113.0	11853.2	10400.7
20°	10210.6	10174.2	10077.5	9988.8	9944.5	10018.9	10331.0	11492.1	11978.4	12184.3	10573.3
22.5°	10828.4	10799.8	10643.0	10452.9	10299.3	10297.7	10451.4	11199.0	11745.5	12496.3	10719.1
25°	11626.7	11580.8	11347.9	11043.8	10774.5	10671.5	10714.3	11184.8	11618.8	12835.3	10849.0
27.5°	12564.4	12480.5	12204.9	11766.1	11370.1	11162.6	11100.8	11443.0	11734.4	13255.1	11029.5
30°	13701.8	13605.1	13251.9	12680.1	12120.9	11780.4	11648.9	11900.7	12117.8	13766.7	11319.4
32.5°	14995.9	14856.5	14447.8	13817.4	13082.4	12562.9	12349.0	12505.8	12678.5	14382.9	11682.1
35°	16784.3	16618.0	16027.1	15157.5	14327.5	13613.1	13270.9	13385.0	13552.9	15301.6	12206.5
37.5°	18004.0	17929.5	17536.7	16719.3	15816.4	14994.3	14465.3	14531.8	14626.8	16450.0	12878.1
40°	17992.9	18023.0	18030.9	18038.8	17424.2	16637.0	16068.3	15998.6	15979.6	17710.9	13641.6
42.5°	17091.6	17215.1	17614.3	18423.7	18797.6	18436.4	17915.3	17714.1	17614.3	19196.7	14451.0
45°	15711.9	15778.4	16526.1	18106.9	19500.9	20218.4	19824.0	19190.4	19009.8	20562.2	15122.6
47.5°	15000.7	15073.5	15544.0	17267.4	19493.0	21658.3	21886.4	20679.4	20356.2	21750.2	15702.4
50°	13307.4	13459.4	14051.8	15806.9	18781.7	22320.4	24042.3	22453.5	21785.0	22906.5	16283.7
52.5°	10197.9	10432.4	11096.1	13405.6	16977.5	21992.5	25767.3	24604.6	23660.5	24104.0	16782.7
55°	6432.7	6606.9	7164.5	9467.7	13581.4	20286.5	26421.5	26931.5	26092.0	25238.2	17215.1
57.5°	3497.5	3575.1	3784.2	5227.3	8834.1	16515.0	25467.9	28255.8	27907.3	26201.3	17541.4
58°	3130.0	3182.3	3312.2	4530.3	7834.6	15483.8	25044.9	28260.5	28086.3	26342.3	17566.8
60°	2322.2	2295.2	2179.6	2585.1	4360.8	10696.9	22488.3	27129.5	27641.2	26514.9	17443.2
62.5°	2040.2	1975.3	1739.3	1712.3	2121.0	4927.9	17207.2	23239.2	24447.8	25529.7	16692.4
65°	1916.7	1847.0	1542.8	1444.6	1530.2	2084.6	10136.1	17429.0	18944.9	22542.2	14772.6
67.5°	1824.8	1734.5	1417.7	1283.1	1289.4	1378.1	4063.0	10977.3	12683.2	17115.3	11490.5
70°	1736.1	1637.9	1311.6	1156.3	1119.9	1089.8	1615.7	5495.0	7042.6	10810.9	7326.1
72.5°	1641.0	1544.4	1218.1	1056.5	985.3	885.5	1055.0	2247.7	3139.5	5114.8	3323.3
75°	1503.2	1416.1	1124.7	967.8	866.5	733.4	796.8	1173.8	1408.2	2037.0	1601.4
77.5°	1333.7	1262.5	1020.1	895.0	768.2	595.6	613.0	814.2	902.9	1165.8	952.0
80°	958.3	983.7	907.6	804.7	684.3	483.1	470.5	594.0	641.5	749.2	619.4
82.5°	673.2	687.5	750.8	657.4	565.5	380.2	346.9	418.2	446.7	492.6	334.2
85°	464.1	448.3	514.8	457.8	408.7	253.4	237.6	283.5	301.0	305.7	172.7
87.5°	278.8	278.8	297.8	245.5	220.2	131.5	128.3	161.6	172.7	164.7	95.0
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°	8935.5	8935.5	8935.5	8935.5	8935.5	8935.5	8935.5	8935.5	8935.5	8935.5	8935.5
2.5°	8959.2	8846.8	8607.6	8415.9	8173.5	7921.7	7780.7	7630.2	7527.3	7452.8	7571.6
5°	9027.3	8797.6	8303.4	7834.6	7316.6	6778.0	6369.3	5989.2	5724.6	5559.9	5715.1
7.5°	9135.0	8781.8	7994.6	7193.0	6263.2	5366.7	4565.1	4063.0	3770.0	3625.8	3716.1
10°	9258.6	8756.5	7631.8	6323.4	4992.8	3863.4	3264.7	3061.9	2995.4	2968.5	2981.1
12.5°	9361.6	8702.6	7186.7	5271.6	3749.4	3050.8	2878.2	2873.4	2887.7	2890.8	2895.6
15°	9434.4	8623.4	6526.2	4175.5	2998.6	2780.0	2770.5	2799.0	2825.9	2837.0	2843.3
17.5°	9483.5	8460.3	5780.1	3301.1	2686.5	2648.5	2670.7	2707.1	2735.6	2743.5	2749.9
20°	9478.8	8221.1	4891.5	2753.0	2517.0	2517.0	2555.0	2583.5	2585.1	2575.6	2580.4
22.5°	9429.7	7893.2	4029.7	2461.6	2366.5	2393.5	2431.5	2404.5	2293.7	2220.8	2225.5
25°	9347.3	7501.9	3291.6	2276.2	2227.1	2274.7	2263.6	2060.8	1902.4	1831.1	1831.1
27.5°	9274.4	7039.4	2724.5	2114.7	2087.7	2146.3	1949.9	1766.2	1699.7	1666.4	1655.3
30°	9222.2	6540.4	2345.9	1959.4	1956.3	1913.5	1691.7	1641.0	1630.0	1603.0	1593.5
32.5°	9234.8	6035.1	2103.6	1823.2	1834.3	1637.9	1568.2	1579.3	1569.8	1541.3	1528.6
35°	9339.4	5555.2	1945.2	1699.7	1666.4	1479.5	1495.3	1515.9	1512.7	1473.1	1460.5
37.5°	9526.3	5100.5	1840.6	1596.7	1454.1	1400.3	1425.6	1457.3	1449.4	1422.5	1412.9
40°	9722.7	4672.9	1755.1	1515.9	1329.0	1346.4	1368.6	1386.0	1393.9	1401.9	1395.5
42.5°	9914.4	4226.2	1650.5	1433.5	1276.7	1295.7	1305.2	1322.7	1365.4	1395.5	1393.9
45°	10028.4	3806.4	1542.8	1316.3	1235.5	1246.6	1240.3	1275.1	1327.4	1376.5	1378.1
47.5°	10155.2	3480.1	1457.3	1208.6	1195.9	1203.9	1184.8	1219.7	1267.2	1327.4	1333.7
50°	10308.8	3285.3	1389.2	1123.1	1142.1	1142.1	1137.3	1169.0	1235.5	1305.2	1317.9
52.5°	10483.0	3247.2	1332.2	1061.3	1088.2	1086.6	1091.4	1138.9	1211.8	1279.9	1291.0
55°	10695.3	3350.2	1270.4	1015.4	1035.9	1042.3	1058.1	1112.0	1173.8	1251.4	1256.1
57.5°	10942.4	3559.3	1221.3	978.9	988.4	1009.0	1034.4	1083.5	1150.0	1235.5	1240.3
58°	10983.6	3603.6	1213.4	975.8	978.9	1002.7	1031.2	1078.7	1145.2	1238.7	1243.5
60°	10985.2	3751.0	1195.9	961.5	942.5	982.1	1013.8	1061.3	1137.3	1249.8	1260.9
62.5°	10595.5	3749.4	1183.3	940.9	904.5	953.6	990.0	1045.5	1129.4	1276.7	1298.9
65°	9329.9	3407.2	1123.1	909.2	874.4	928.2	969.4	1034.4	1151.6	1393.9	1408.2
67.5°	7297.6	2792.6	1010.6	864.9	834.8	902.9	956.7	1032.8	1175.3	1420.9	1430.4
70°	4824.9	2089.3	887.1	814.2	793.6	872.8	963.1	1086.6	1148.4	1363.8	1338.5
72.5°	2504.3	1466.8	787.3	750.8	746.1	845.9	1055.0	1080.3	1121.5	1283.1	1251.4
75°	1314.7	1018.5	700.1	681.1	689.0	839.5	1245.0	1051.8	1086.6	1227.6	1287.8
77.5°	804.7	822.1	625.7	617.8	633.6	820.5	1243.5	1015.4	1035.9	1129.4	1195.9
80°	538.6	666.9	568.7	570.2	581.3	750.8	1116.7	958.3	974.2	1067.6	1135.7
82.5°	340.6	394.4	516.4	543.3	529.1	619.4	948.8	872.8	895.0	1221.3	1291.0
85°	172.7	247.1	448.3	522.7	476.8	434.0	769.8	765.1	776.2	880.7	920.3
87.5°	79.2	136.2	350.1	456.2	359.6	270.9	559.2	567.1	611.4	625.7	625.7
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)