

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: P191129

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5446.2 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

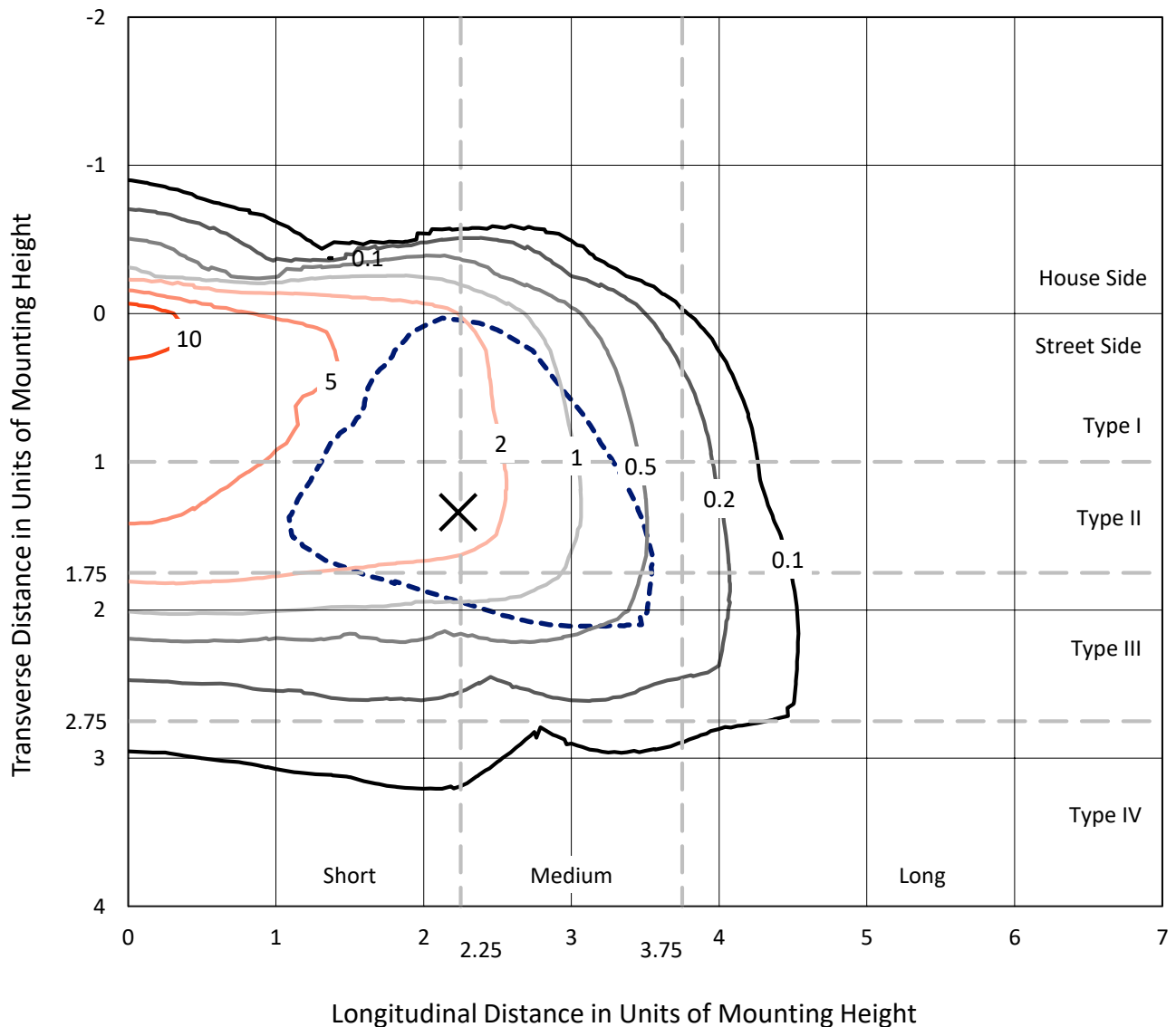
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

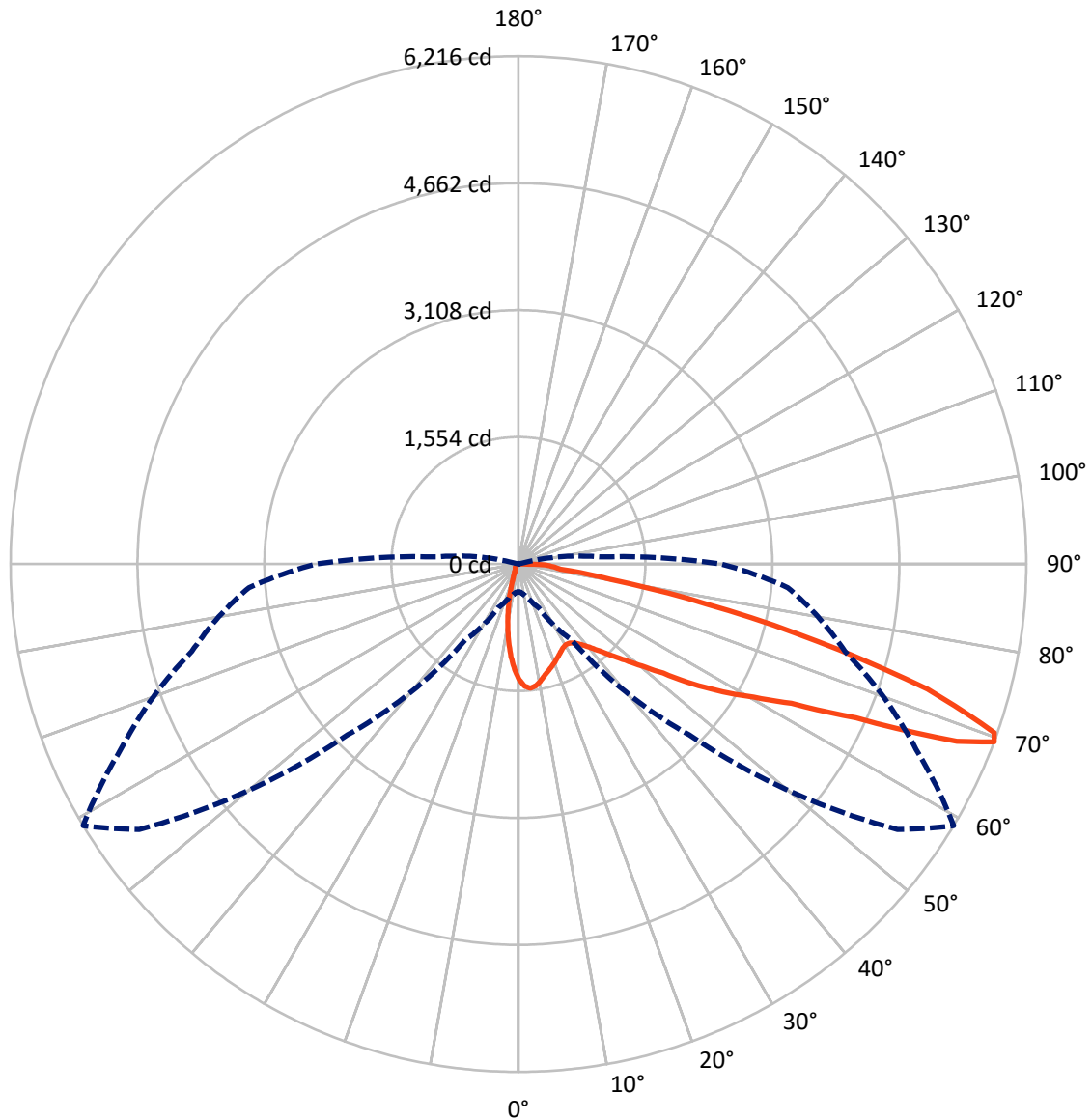


Based on 10 foot mounting height. Maximum calculated value = 14.2 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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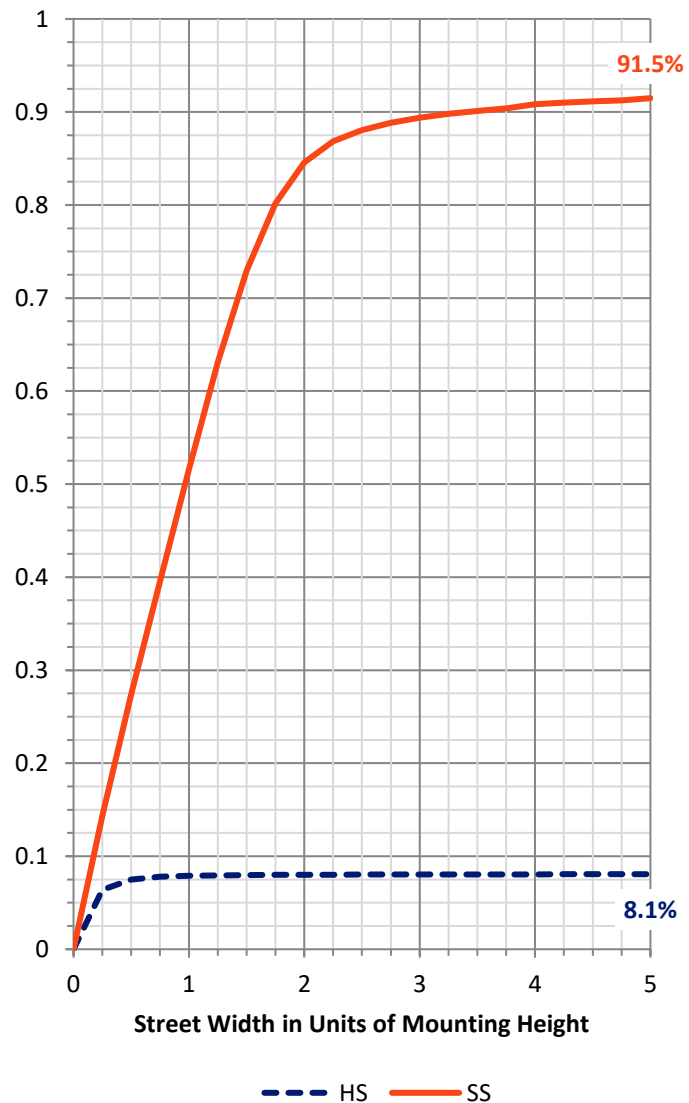
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	443.5	0.0	443.5
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	5002.7	0.0	5002.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	5446.2	0.0	5446.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	2.1
10°-20°	237.8	4.4
20°-30°	319.9	5.9
30°-40°	464.5	8.5
40°-50°	773.5	14.2
50°-60°	1206.6	22.2
60°-70°	1493.0	27.4
70°-80°	756.7	13.9
80°-90°	79.2	1.5
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°	5446.2	100.0
0°-180°	5446.2	100.0



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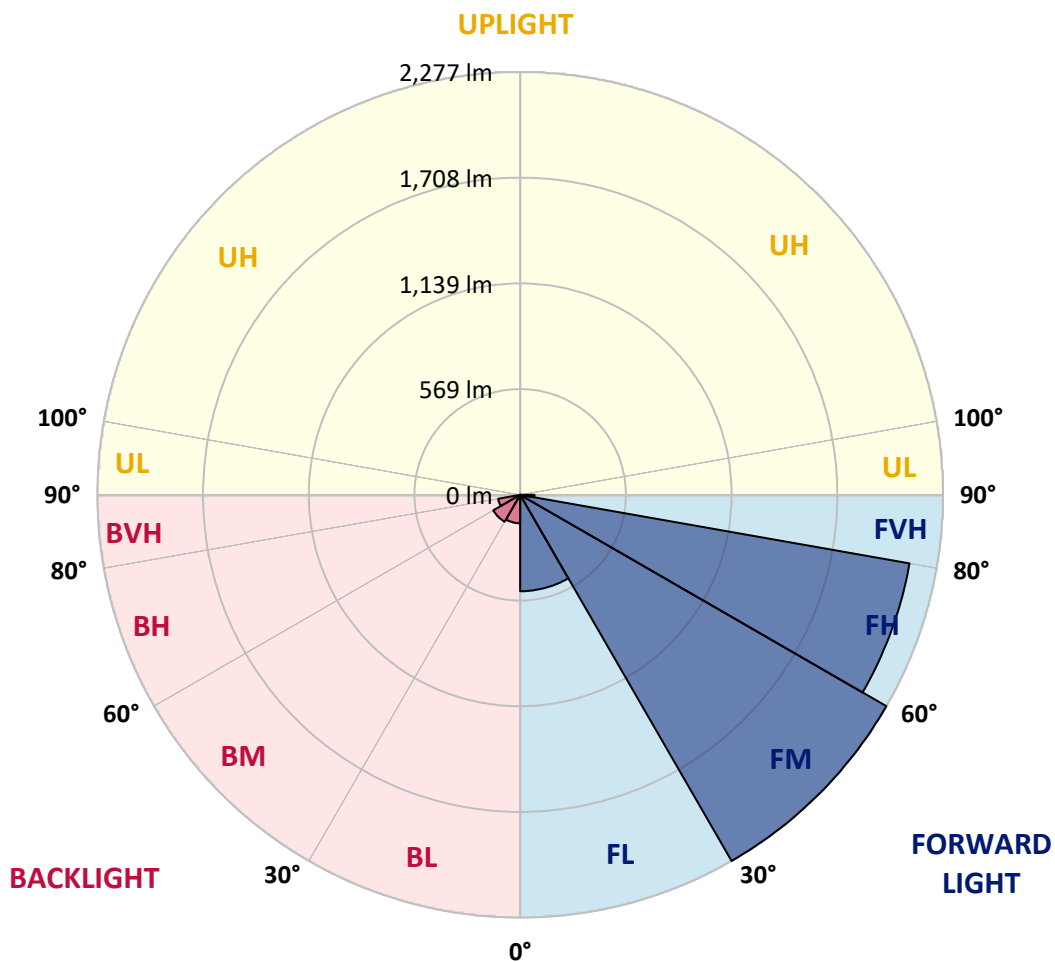
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	519.2	9.5			
FM	(30°-60°)	2277.4	41.8			
FH	(60°-80°)	2129.3	39.1			G2/5000
FVH	(80°-90°)	76.7	1.4			G1/100
BL	(0°-30°)	153.5	2.8	B1/500		
BM	(30°-60°)	167.1	3.1	B0/220		
BH	(60°-80°)	120.4	2.2	B1/500		G1/500
BVH	(80°-90°)	2.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1553.7	1553.0	1546.3	1543.2	1537.7	1525.9	1507.8	1498.2	1482.9	1456.1	1420.1
5°	1539.5	1546.9	1550.9	1551.2	1555.2	1550.9	1534.6	1526.5	1505.4	1462.2	1397.6
7.5°	1443.5	1446.2	1457.6	1467.4	1486.6	1504.8	1510.6	1507.2	1494.5	1448.4	1362.5
10°	1340.6	1343.3	1356.9	1369.8	1395.7	1423.7	1453.3	1459.4	1464.7	1428.7	1328.6
12.5°	1251.9	1254.6	1268.6	1285.4	1315.6	1350.1	1396.0	1406.1	1429.3	1409.8	1301.5
15°	1175.5	1176.7	1190.3	1211.3	1247.3	1291.6	1343.6	1360.0	1395.4	1396.6	1277.8
17.5°	1110.5	1113.6	1121.9	1141.9	1181.4	1236.1	1296.8	1320.2	1361.9	1385.6	1254.6
20°	1070.8	1073.9	1073.6	1084.6	1120.0	1178.5	1250.0	1278.1	1328.6	1374.1	1234.0
22.5°	1063.1	1063.1	1055.1	1053.5	1074.5	1123.5	1201.4	1235.5	1298.7	1369.2	1219.6
25°	1090.5	1089.2	1069.3	1052.9	1053.8	1083.1	1154.3	1194.9	1273.5	1372.6	1211.9
27.5°	1148.4	1146.8	1121.6	1090.5	1065.6	1065.3	1118.5	1162.3	1253.4	1388.7	1215.0
30°	1228.5	1227.8	1200.4	1161.4	1116.0	1074.5	1106.2	1145.9	1240.5	1417.6	1222.0
32.5°	1315.9	1315.0	1294.3	1253.1	1195.8	1116.0	1119.1	1152.5	1244.2	1456.1	1239.3
35°	1408.6	1407.1	1398.2	1362.2	1299.0	1192.8	1161.7	1187.5	1267.5	1513.7	1273.2
37.5°	1509.1	1510.6	1517.0	1482.6	1416.4	1300.3	1232.8	1250.4	1314.7	1591.9	1328.3
40°	1657.2	1656.9	1659.0	1613.7	1550.0	1431.7	1332.3	1337.8	1393.6	1695.6	1412.0
42.5°	1926.0	1907.2	1850.2	1757.8	1693.8	1582.0	1457.6	1451.8	1489.9	1824.1	1529.3
45°	2287.2	2247.2	2099.4	1922.3	1840.4	1751.4	1611.9	1593.1	1617.4	1978.4	1674.1
47.5°	2598.0	2556.5	2347.4	2093.6	1995.9	1912.2	1792.7	1758.8	1766.8	2151.2	1857.7
50°	2703.7	2683.3	2500.7	2242.6	2146.6	2114.5	2002.4	1961.1	1949.7	2351.0	2070.5
52.5°	2667.0	2665.4	2543.8	2339.3	2284.5	2323.9	2266.3	2218.6	2176.7	2561.7	2286.9
55°	2608.1	2615.9	2561.4	2424.0	2422.1	2515.1	2627.2	2587.6	2466.2	2790.5	2473.6
57.5°	2445.9	2478.8	2551.5	2584.2	2659.9	2755.1	2927.8	2951.2	2807.7	2965.7	2628.5
60°	1984.5	2056.9	2294.7	2607.2	2966.4	3203.5	3290.6	3310.7	3088.0	3111.4	2837.6
62.5°	1408.6	1482.6	1784.0	2312.8	2971.0	3792.6	3831.1	3752.6	3396.6	3327.2	3198.3
65°	747.8	804.8	1051.1	1669.5	2575.8	3929.4	4776.3	4542.2	3941.0	3752.0	3664.2
67.5°	382.5	399.8	497.7	817.0	1770.8	3490.2	5623.5	5788.3	4879.4	4173.2	3641.7
69°	338.5	348.6	413.6	590.7	1133.9	2956.1	5664.7	6216.0	5370.6	4138.1	3309.5
70°	327.7	336.7	395.8	534.6	886.3	2479.1	5506.7	6178.4	5496.3	4004.4	3061.2
72.5°	278.1	285.8	352.3	472.4	720.4	1230.6	4473.2	5235.5	4932.1	3335.8	2215.8
75°	186.0	211.2	338.2	442.8	670.1	699.1	2949.1	3783.4	3514.6	2250.0	1154.3
77.5°	44.7	48.1	95.4	352.3	612.8	615.3	1516.7	2352.0	1918.3	802.0	272.8
80°	24.0	23.1	26.8	69.9	570.7	577.5	682.7	1141.6	684.9	133.1	89.9
82.5°	17.0	16.1	17.3	29.3	179.5	526.0	494.0	516.8	284.0	51.1	40.3
85°	6.1	5.8	9.5	26.5	56.4	302.4	507.5	426.3	230.1	23.4	29.6
87.5°	2.1	1.8	3.7	14.4	17.3	128.7	313.2	322.1	90.5	14.1	13.8
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°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1404.9	1385.9	1350.7	1314.7	1281.5	1241.5	1221.4	1201.7	1193.4	1190.3	1175.8
5°	1364.3	1332.0	1257.4	1182.6	1113.6	1040.3	992.0	953.2	930.4	919.3	901.7
7.5°	1312.2	1259.3	1146.2	1030.7	923.3	817.3	738.8	678.4	636.9	616.8	598.7
10°	1261.7	1191.2	1030.4	873.1	727.1	586.7	478.2	399.8	349.5	326.4	311.7
12.5°	1216.5	1125.0	918.7	719.4	536.1	371.7	261.5	199.0	167.9	157.0	151.8
15°	1176.1	1064.1	813.0	573.5	363.0	212.5	142.9	121.6	116.7	116.7	116.1
17.5°	1137.9	1004.2	711.1	436.4	227.9	129.9	108.7	106.0	106.0	107.2	107.2
20°	1101.3	947.4	612.5	313.2	143.5	103.2	98.2	97.6	98.2	99.7	99.7
22.5°	1069.9	895.6	520.5	214.9	106.6	93.0	90.5	89.6	89.9	90.8	91.5
25°	1046.5	851.8	433.6	145.7	91.8	84.7	81.9	80.4	79.2	79.2	79.8
27.5°	1031.6	814.9	349.5	106.0	82.6	77.0	72.6	70.2	67.4	65.9	66.5
30°	1020.9	779.8	270.7	86.5	74.0	68.3	62.8	58.8	54.8	53.0	53.6
32.5°	1016.9	751.5	202.3	76.4	66.2	60.0	53.3	48.1	43.8	42.1	42.5
35°	1027.7	729.0	148.1	68.9	60.0	52.4	44.7	38.8	35.4	34.5	34.8
37.5°	1056.0	717.0	110.9	62.8	54.5	45.9	37.2	31.7	29.6	29.6	29.9
40°	1109.6	716.7	89.0	58.5	49.6	39.7	30.8	26.8	25.6	26.2	26.5
42.5°	1187.9	732.9	77.6	54.5	45.3	33.9	25.6	22.8	22.5	23.1	23.4
45°	1294.6	762.8	71.4	51.1	40.6	28.3	21.6	19.7	19.7	20.7	21.0
47.5°	1425.6	806.6	66.2	47.8	36.0	23.7	18.5	17.3	17.6	18.5	18.8
50°	1583.2	861.7	61.0	44.1	32.6	19.7	16.1	15.1	15.4	16.7	17.0
52.5°	1762.7	935.9	56.7	40.6	28.3	16.4	13.5	12.9	13.5	14.8	15.1
55°	1916.8	1002.4	51.5	37.8	22.8	13.5	11.0	11.0	11.7	13.2	13.5
57.5°	2064.9	1072.1	46.9	32.6	17.9	10.7	9.2	9.5	10.4	12.0	12.3
60°	2282.3	1190.0	41.2	27.4	13.5	8.6	7.7	8.0	9.2	10.7	11.0
62.5°	2651.6	1369.5	35.7	22.8	10.4	6.8	6.1	6.8	8.3	10.1	10.4
65°	2984.8	1442.5	29.3	19.1	8.0	5.2	5.2	6.1	8.0	9.8	10.1
67.5°	2799.1	1214.3	22.8	15.1	6.1	4.0	4.3	5.8	7.7	9.8	10.1
69°	2475.4	992.9	19.4	12.0	5.2	3.7	4.0	5.8	7.7	9.5	9.8
70°	2223.2	838.3	17.3	10.1	4.6	3.7	4.0	5.5	7.7	9.5	9.8
72.5°	1489.0	452.8	13.8	7.4	4.3	3.4	3.4	5.5	7.4	9.2	9.5
75°	640.0	125.0	11.0	5.2	3.7	3.1	3.1	5.2	7.1	8.9	9.5
77.5°	117.0	31.7	8.9	4.6	3.7	3.1	2.8	4.9	6.8	8.6	8.9
80°	46.5	15.8	7.1	4.0	3.4	2.8	2.5	4.6	6.4	8.3	8.6
82.5°	28.0	8.9	5.8	3.7	3.4	2.5	2.1	4.0	6.1	8.0	8.3
85°	22.8	6.1	4.6	3.7	3.1	2.5	1.8	3.7	5.5	7.7	8.0
87.5°	11.0	4.3	4.3	3.4	3.1	2.5	1.8	3.4	5.2	7.4	7.7
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)