

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: P191119

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191119  
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-SL3-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 800mA 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: 4400.7 lumens  
Efficiency: N/A  
Efficacy: 100.0 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 - G1

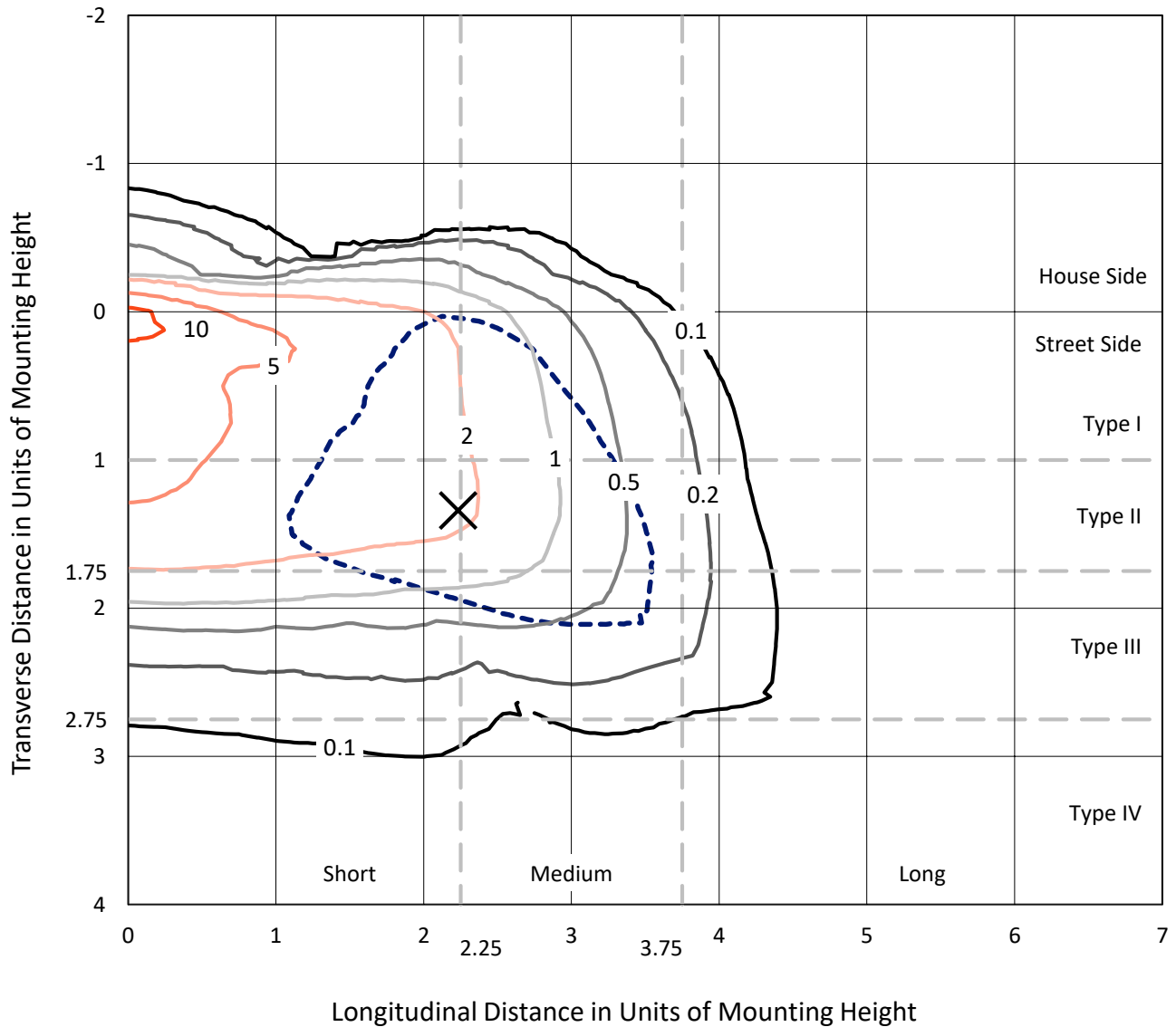
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

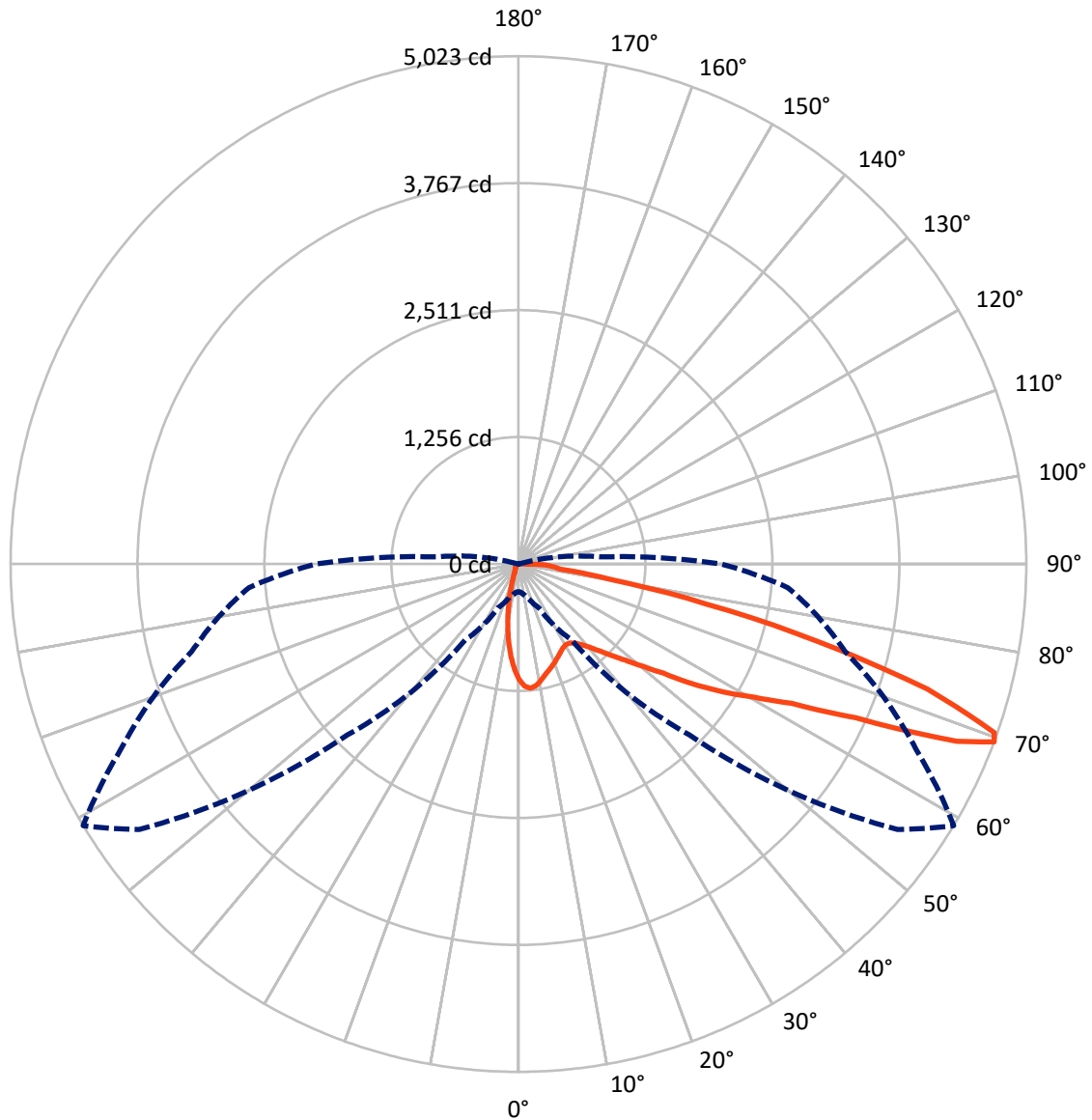
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 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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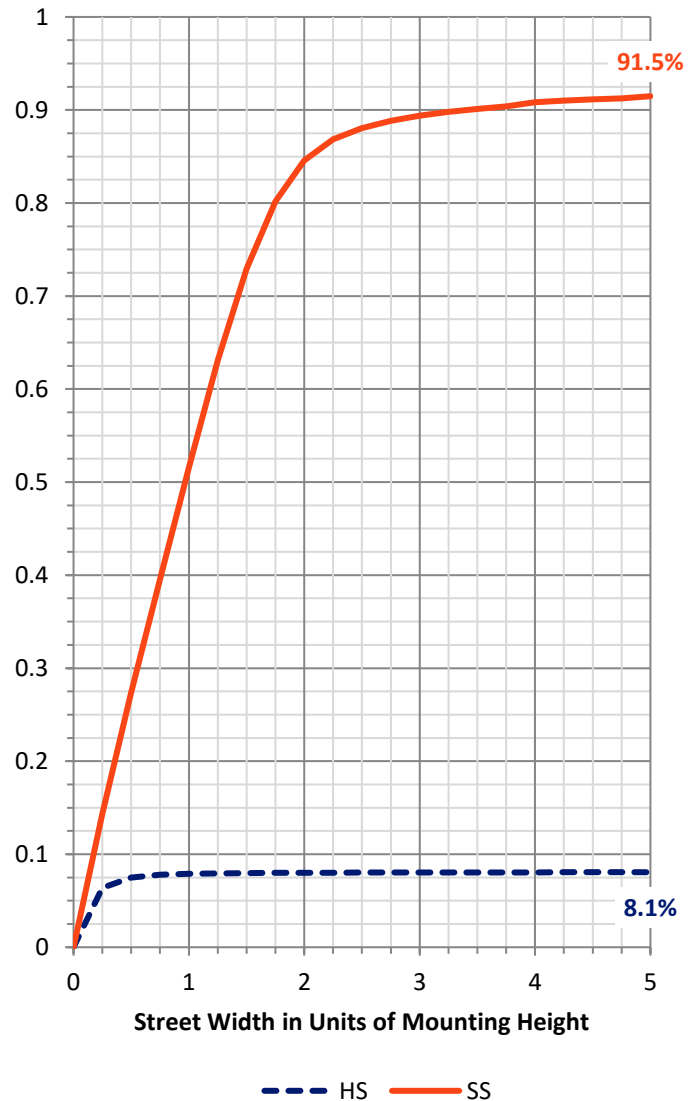
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	358.4	0.0	358.4
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	4042.4	0.0	4042.4
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	4400.7	0.0	4400.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.0	2.1
10°-20°	192.1	4.4
20°-30°	258.5	5.9
30°-40°	375.4	8.5
40°-50°	625.0	14.2
50°-60°	975.0	22.2
60°-70°	1206.4	27.4
70°-80°	611.4	13.9
80°-90°	64.0	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°	4400.7	100.0
0°-180°	4400.7	100.0



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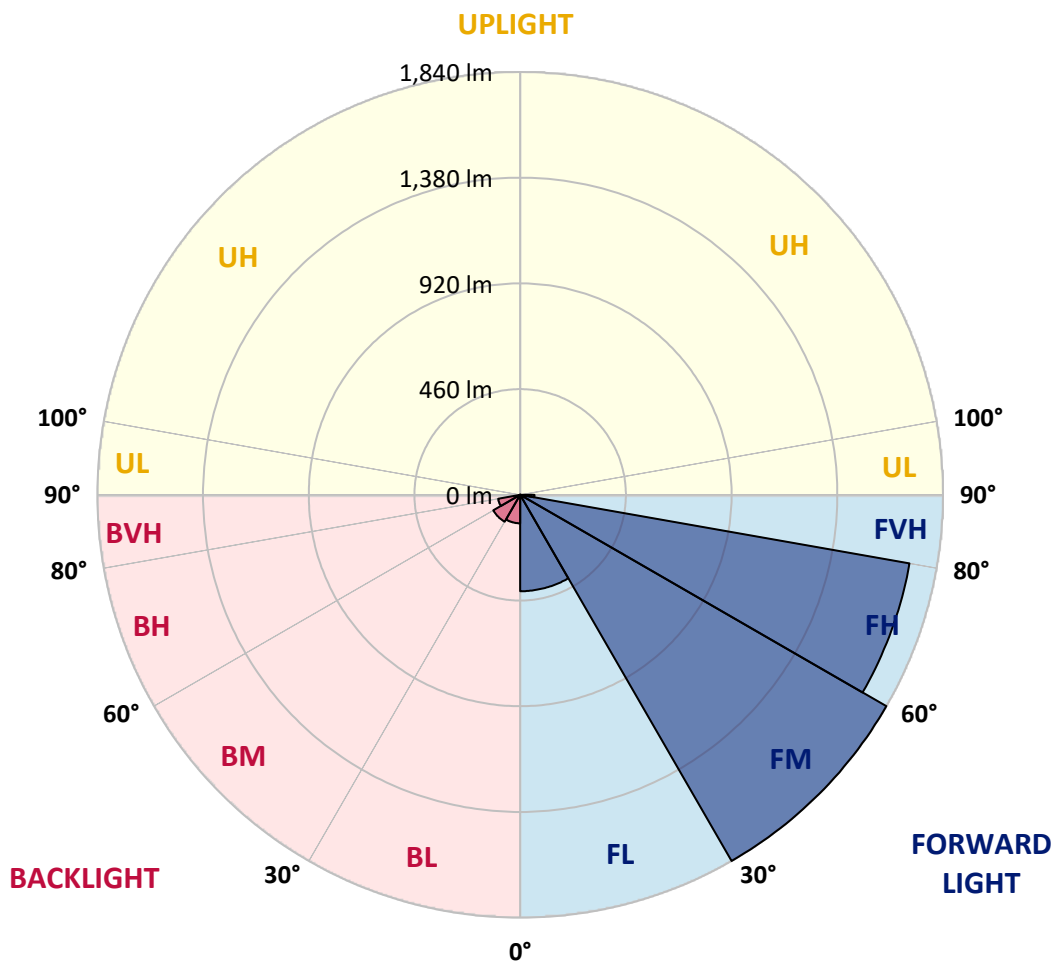
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	419.6	9.5			
FM	(30°-60°)	1840.3	41.8			
FH	(60°-80°)	1720.5	39.1			G1/1800
FVH	(80°-90°)	62.0	1.4			G1/100
BL	(0°-30°)	124.0	2.8	B1/500		
BM	(30°-60°)	135.0	3.1	B0/220		
BH	(60°-80°)	97.3	2.2	B0/110		G0/110
BVH	(80°-90°)	2.0	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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1145.5	1145.5	1145.5	1145.5	1145.5	1145.5	1145.5	1145.5	1145.5	1145.5	1145.5
2.5°	1255.5	1255.0	1249.4	1247.0	1242.5	1233.1	1218.3	1210.7	1198.2	1176.6	1147.4
5°	1244.0	1249.9	1253.2	1253.4	1256.7	1253.2	1240.0	1233.6	1216.4	1181.5	1129.2
7.5°	1166.4	1168.6	1177.8	1185.8	1201.1	1215.9	1220.6	1217.8	1207.7	1170.4	1100.9
10°	1083.2	1085.5	1096.4	1106.8	1127.8	1150.4	1174.3	1179.3	1183.6	1154.4	1073.5
12.5°	1011.6	1013.8	1025.0	1038.7	1063.1	1091.0	1128.0	1136.3	1154.9	1139.3	1051.6
15°	949.8	950.8	961.8	978.8	1007.8	1043.7	1085.8	1099.0	1127.5	1128.5	1032.5
17.5°	897.3	899.8	906.5	922.7	954.6	998.9	1047.9	1066.8	1100.4	1119.6	1013.8
20°	865.2	867.8	867.5	876.5	905.1	952.4	1010.1	1032.8	1073.5	1110.4	997.2
22.5°	859.1	859.1	852.5	851.3	868.3	907.8	970.8	998.4	1049.4	1106.4	985.4
25°	881.2	880.1	864.0	850.8	851.6	875.2	932.7	965.6	1029.0	1109.1	979.2
27.5°	927.9	926.7	906.3	881.2	861.0	860.8	903.8	939.2	1012.8	1122.1	981.7
30°	992.7	992.2	970.0	938.5	901.8	868.3	893.9	926.0	1002.4	1145.5	987.5
32.5°	1063.4	1062.5	1045.9	1012.5	966.3	901.8	904.3	931.2	1005.4	1176.6	1001.4
35°	1138.2	1137.0	1129.7	1100.7	1049.6	963.8	938.7	959.5	1024.3	1223.0	1028.8
37.5°	1219.4	1220.6	1225.8	1198.0	1144.5	1050.7	996.1	1010.4	1062.3	1286.3	1073.3
40°	1339.0	1338.8	1340.6	1304.0	1252.5	1156.9	1076.6	1081.0	1126.1	1370.1	1141.0
42.5°	1556.3	1541.1	1495.0	1420.5	1368.7	1278.4	1177.8	1173.1	1203.9	1474.0	1235.8
45°	1848.2	1815.8	1696.4	1553.4	1487.2	1415.3	1302.5	1287.3	1306.9	1598.6	1352.8
47.5°	2099.3	2065.6	1896.8	1691.7	1612.8	1545.1	1448.5	1421.2	1427.6	1738.2	1501.1
50°	2184.6	2168.2	2020.6	1812.2	1734.5	1708.6	1618.0	1584.7	1575.4	1899.7	1673.0
52.5°	2155.1	2153.8	2055.5	1890.2	1845.9	1877.8	1831.3	1792.7	1758.9	2069.9	1848.0
55°	2107.5	2113.7	2069.6	1958.6	1957.2	2032.3	2122.9	2090.8	1992.8	2254.8	1998.7
57.5°	1976.3	2002.9	2061.8	2088.0	2149.3	2226.2	2365.8	2384.7	2268.8	2396.4	2124.0
60°	1603.6	1662.1	1854.2	2106.8	2396.9	2588.5	2659.0	2675.1	2495.2	2514.1	2292.8
62.5°	1138.2	1198.0	1441.5	1868.8	2400.7	3064.6	3095.7	3032.2	2744.6	2688.5	2584.3
65°	604.2	650.3	849.4	1349.0	2081.4	3175.0	3859.4	3670.2	3184.5	3031.7	2960.8
67.5°	309.0	323.0	402.1	660.2	1430.9	2820.2	4543.9	4677.1	3942.8	3372.2	2942.6
69°	273.4	281.7	334.2	477.3	916.3	2388.7	4577.3	5022.8	4339.7	3343.8	2674.1
70°	264.7	272.0	319.8	432.0	716.2	2003.2	4449.6	4992.4	4441.2	3235.8	2473.6
72.5°	224.7	231.0	284.7	381.8	582.1	994.4	3614.5	4230.4	3985.3	2695.6	1790.5
75°	150.3	170.7	273.2	357.8	541.4	564.9	2383.0	3057.1	2839.8	1818.1	932.7
77.5°	36.1	38.8	77.1	284.7	495.2	497.2	1225.6	1900.4	1550.1	648.0	220.4
80°	19.4	18.6	21.7	56.5	461.1	466.6	551.7	922.5	553.4	107.5	72.6
82.5°	13.7	12.9	13.9	23.6	145.1	425.0	399.2	417.6	229.4	41.3	32.6
85°	5.0	4.7	7.7	21.4	45.5	244.4	410.1	344.4	185.9	18.9	23.9
87.5°	1.7	1.5	3.0	11.7	13.9	104.0	253.1	260.3	73.1	11.5	11.2
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°	1145.5	1145.5	1145.5	1145.5	1145.5	1145.5	1145.5	1145.5	1145.5	1145.5	1145.5
2.5°	1135.3	1119.8	1091.5	1062.3	1035.4	1003.1	986.9	971.0	964.3	961.8	950.1
5°	1102.4	1076.2	1016.1	955.5	899.8	840.7	801.6	770.2	751.8	742.8	728.6
7.5°	1060.4	1017.5	926.2	832.9	746.0	660.4	597.0	548.2	514.6	498.5	483.8
10°	1019.6	962.6	832.7	705.5	587.5	474.0	386.5	323.0	282.4	263.8	251.9
12.5°	983.0	909.0	742.4	581.3	433.2	300.3	211.2	160.7	135.6	126.9	122.7
15°	950.3	859.8	656.9	463.4	293.4	171.8	115.5	98.3	94.3	94.3	93.8
17.5°	919.5	811.5	574.6	352.6	184.1	105.1	87.9	85.6	85.6	86.6	86.6
20°	889.9	765.5	495.0	253.1	116.0	83.4	79.4	78.9	79.4	80.6	80.6
22.5°	864.5	723.6	420.5	173.7	86.1	75.2	73.1	72.4	72.6	73.4	73.9
25°	845.6	688.3	350.4	117.7	74.2	68.4	66.2	65.0	63.9	63.9	64.4
27.5°	833.6	658.5	282.4	85.6	66.7	62.2	58.7	56.8	54.5	53.3	53.7
30°	824.9	630.0	218.7	70.0	59.7	55.2	50.7	47.6	44.3	42.8	43.3
32.5°	821.7	607.2	163.5	61.7	53.5	48.5	43.1	38.8	35.3	34.1	34.4
35°	830.4	589.0	119.7	55.8	48.5	42.4	36.1	31.4	28.6	27.8	28.1
37.5°	853.3	579.3	89.6	50.7	44.1	37.0	30.1	25.7	23.9	23.9	24.1
40°	896.6	579.1	71.9	47.3	40.1	32.1	24.9	21.7	20.7	21.2	21.4
42.5°	959.8	592.3	62.7	44.1	36.6	27.4	20.7	18.4	18.2	18.6	18.9
45°	1046.2	616.4	57.7	41.3	32.8	22.9	17.4	16.0	16.0	16.7	16.9
47.5°	1151.9	651.7	53.5	38.6	29.2	19.1	14.9	13.9	14.2	14.9	15.1
50°	1279.3	696.3	49.3	35.6	26.4	16.0	12.9	12.2	12.5	13.4	13.7
52.5°	1424.5	756.3	45.8	32.8	22.9	13.2	10.9	10.4	10.9	12.0	12.2
55°	1548.8	810.0	41.5	30.6	18.4	10.9	9.0	9.0	9.4	10.7	10.9
57.5°	1668.5	866.2	37.8	26.4	14.4	8.7	7.5	7.7	8.5	9.7	9.9
60°	1844.2	961.6	33.3	22.2	10.9	7.0	6.2	6.4	7.5	8.7	9.0
62.5°	2142.6	1106.6	28.8	18.4	8.5	5.5	5.0	5.5	6.8	8.2	8.5
65°	2411.8	1165.7	23.6	15.4	6.4	4.2	4.2	5.0	6.4	8.0	8.2
67.5°	2261.7	981.2	18.4	12.2	5.0	3.3	3.5	4.7	6.2	8.0	8.2
69°	2000.3	802.3	15.7	9.7	4.2	3.0	3.3	4.7	6.2	7.7	8.0
70°	1796.4	677.4	13.9	8.2	3.7	3.0	3.3	4.5	6.2	7.7	8.0
72.5°	1203.2	365.8	11.2	5.9	3.5	2.8	2.8	4.5	5.9	7.5	7.7
75°	517.1	101.1	9.0	4.2	3.0	2.5	2.5	4.2	5.7	7.3	7.7
77.5°	94.5	25.7	7.3	3.7	3.0	2.5	2.3	4.0	5.5	7.0	7.3
80°	37.5	12.7	5.7	3.3	2.8	2.3	1.9	3.7	5.2	6.8	7.0
82.5°	22.6	7.3	4.7	3.0	2.8	1.9	1.7	3.3	5.0	6.4	6.8
85°	18.4	5.0	3.7	3.0	2.5	1.9	1.5	3.0	4.5	6.2	6.4
87.5°	9.0	3.5	3.5	2.8	2.5	1.9	1.5	2.8	4.2	5.9	6.2
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)