

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: P191049

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191049  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
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-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5280.5 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-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

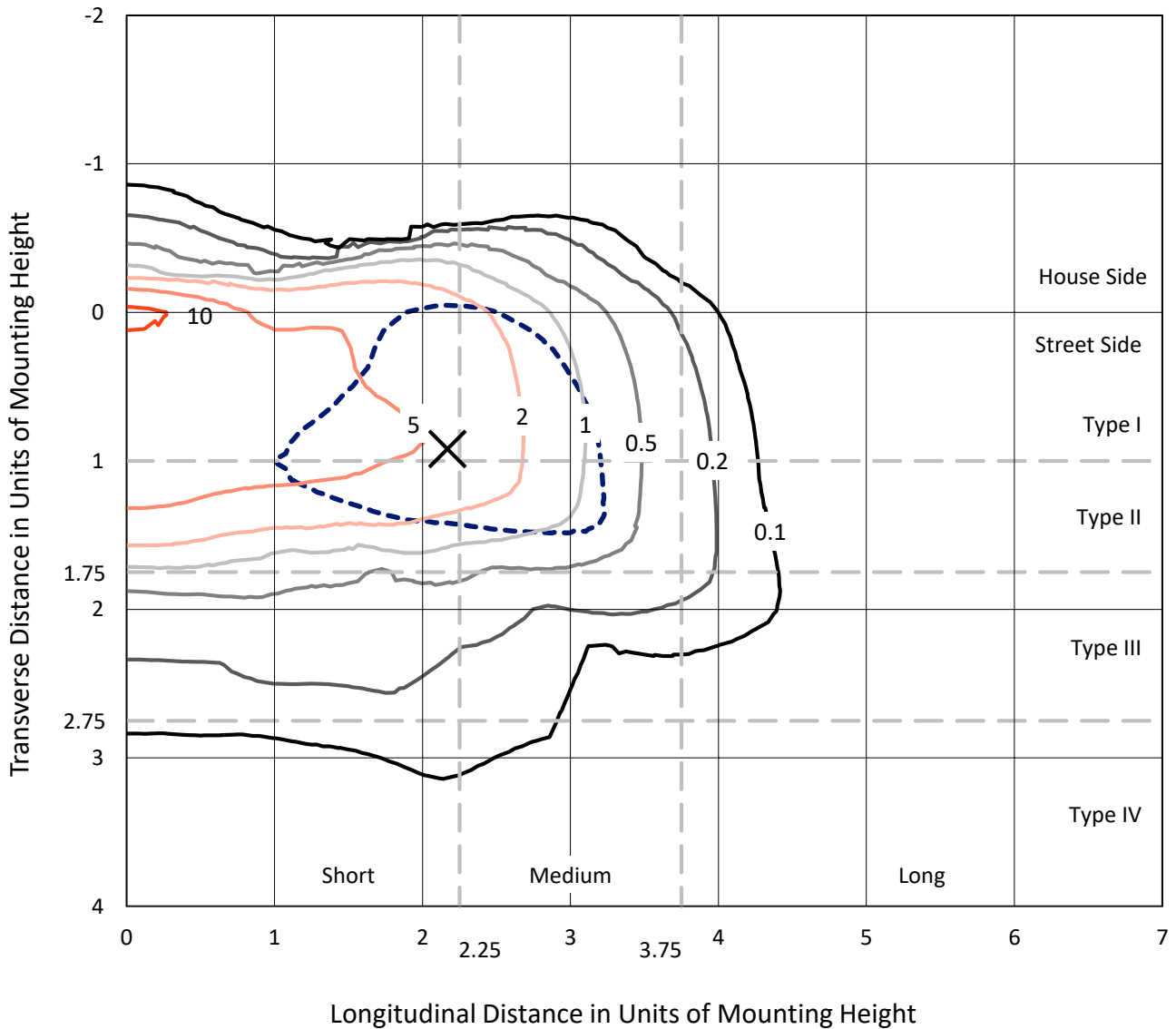


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

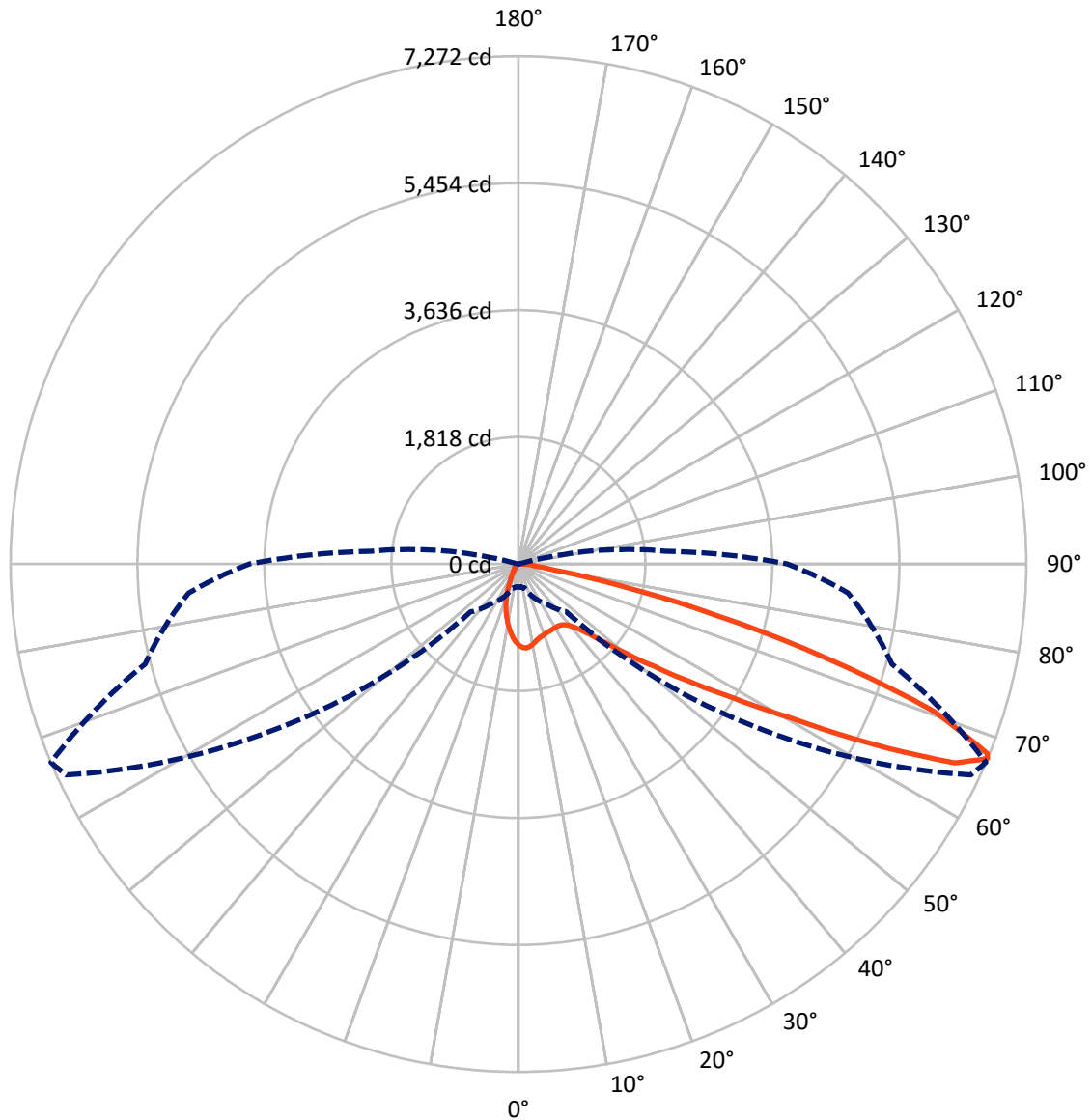


Based on 10 foot mounting height. Maximum calculated value = 11.6 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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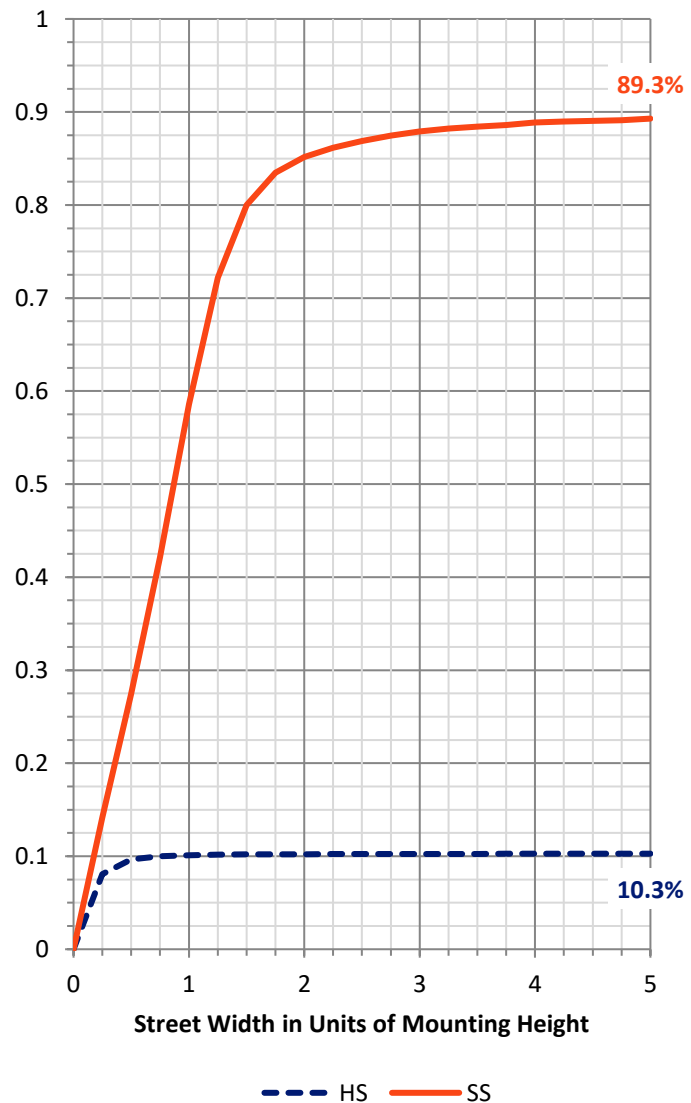
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	548.3	0.0	548.3
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	4732.2	0.0	4732.2
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	5280.5	0.0	5280.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.8	1.8
10°-20°	201.7	3.8
20°-30°	293.2	5.6
30°-40°	457.4	8.7
40°-50°	810.3	15.3
50°-60°	1282.3	24.3
60°-70°	1468.7	27.8
70°-80°	609.2	11.5
80°-90°	62.9	1.2
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°	5280.5	100.0
0°-180°	5280.5	100.0



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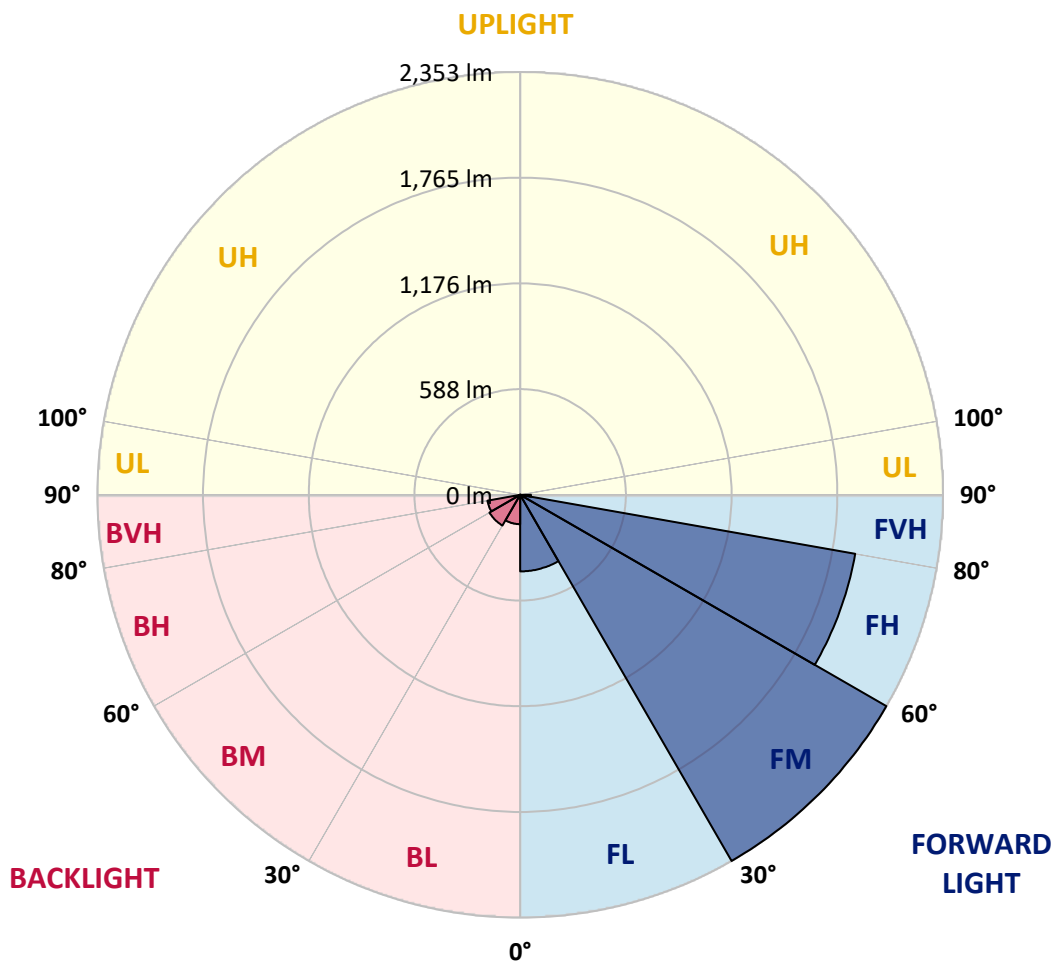
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	426.1	8.1			
FM (30°-60°)	2353.0	44.6			
FH (60°-80°)	1893.1	35.9			G2/5000
FVH (80°-90°)	60.1	1.1			G1/100
BL (0°-30°)	163.6	3.1	B1/500		
BM (30°-60°)	197.0	3.7	B0/220		
BH (60°-80°)	184.8	3.5	B1/500		G1/500
BVH (80°-90°)	2.8	0.1			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5
2.5°	1204.0	1206.5	1206.2	1208.0	1212.3	1212.6	1208.3	1199.9	1198.1	1187.3	1168.5
5°	1110.3	1117.4	1121.8	1139.3	1159.0	1182.7	1200.5	1207.1	1206.2	1198.4	1170.1
7.5°	1003.4	1010.6	1015.5	1036.1	1062.3	1102.9	1149.5	1187.6	1191.0	1199.3	1168.8
10°	932.3	933.5	940.3	960.0	987.5	1029.0	1084.4	1151.3	1161.5	1191.9	1165.8
12.5°	873.8	874.7	883.6	904.9	934.2	976.0	1034.3	1111.5	1127.3	1182.7	1165.1
15°	832.2	835.6	843.6	865.8	896.9	938.5	998.2	1082.3	1101.1	1179.4	1170.7
17.5°	818.4	822.0	824.5	840.6	868.9	909.5	970.8	1063.3	1084.4	1181.2	1181.5
20°	832.8	835.6	830.0	834.0	851.6	887.9	947.7	1046.9	1072.2	1183.3	1195.3
22.5°	886.7	887.9	872.9	855.3	852.2	872.3	929.6	1034.0	1061.0	1189.2	1211.7
25°	979.2	976.9	952.4	914.4	878.7	869.5	918.7	1025.9	1055.5	1195.3	1228.6
27.5°	1090.7	1093.7	1059.8	1004.6	936.6	887.9	917.2	1022.5	1053.0	1199.6	1243.4
30°	1226.1	1230.4	1191.6	1122.4	1024.7	933.5	931.4	1021.9	1051.5	1196.9	1244.6
32.5°	1364.4	1369.6	1339.1	1267.7	1142.3	1010.0	963.4	1028.7	1054.6	1187.3	1237.6
35°	1509.2	1516.6	1496.3	1435.0	1301.9	1120.2	1019.8	1049.3	1069.1	1186.4	1230.4
37.5°	1709.0	1715.9	1677.6	1612.7	1495.0	1268.0	1110.3	1088.1	1103.3	1201.1	1232.3
40°	2007.5	2006.6	1908.0	1808.6	1707.2	1455.9	1237.6	1158.4	1166.1	1245.9	1255.1
42.5°	2332.7	2331.2	2185.5	2034.3	1942.9	1687.3	1404.8	1279.7	1274.5	1328.1	1314.2
45°	2583.5	2583.2	2464.3	2294.0	2226.6	1952.7	1621.0	1448.5	1440.5	1461.8	1423.2
47.5°	2690.4	2692.2	2632.5	2512.7	2541.0	2311.9	1893.6	1693.1	1681.0	1672.4	1613.9
50°	2607.2	2610.9	2615.8	2592.5	2771.7	2794.5	2259.2	2037.7	2031.9	1993.3	1901.9
52.5°	2335.5	2354.3	2412.2	2486.5	2851.8	3257.7	2832.3	2465.8	2434.4	2393.5	2292.7
55°	1877.8	1898.5	2008.5	2188.6	2732.5	3562.0	3635.6	3017.8	2965.4	2843.1	2697.7
57.5°	1242.8	1274.8	1434.4	1663.5	2386.3	3610.9	4437.0	3783.8	3601.4	3266.6	3102.8
60°	684.7	715.5	888.5	1096.2	1723.6	3368.9	4976.0	4781.1	4458.8	3740.0	3594.6
62.5°	421.7	438.2	566.1	759.2	1033.6	2659.0	5087.5	6034.3	5661.3	4349.6	4188.8
65°	335.7	342.8	405.3	620.6	741.0	1581.6	4727.5	6989.7	6865.2	5087.5	4720.7
67°	325.9	328.7	358.2	532.9	698.6	969.6	3960.6	7145.2	7271.5	5534.1	4737.3
67.5°	328.1	331.1	359.2	508.5	697.3	891.0	3696.3	7083.9	7243.5	5569.6	4663.7
70°	316.3	325.9	411.2	508.2	663.1	740.4	2213.6	6137.8	6303.8	5175.0	3957.2
72.5°	112.1	112.7	177.7	411.2	721.0	748.4	1111.5	4499.6	4622.4	3958.7	2853.0
75°	66.5	56.7	59.1	117.0	689.0	726.9	641.3	2875.2	2921.0	2268.4	1444.8
77.5°	45.9	40.0	41.2	51.8	262.4	716.7	509.4	1499.3	1450.3	795.5	307.7
80°	26.2	23.1	24.7	45.3	95.4	668.7	480.5	607.9	518.3	134.9	85.0
82.5°	13.8	11.7	14.2	37.2	66.5	416.8	481.4	293.8	232.8	45.6	57.9
85°	4.9	4.0	6.8	25.6	44.4	127.9	446.3	247.0	194.1	22.2	44.1
87.5°	0.9	0.9	2.8	10.4	17.9	39.1	263.9	146.6	98.2	13.2	30.2
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°	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5	1164.5
2.5°	1160.8	1147.6	1129.7	1107.9	1082.0	1059.2	1042.3	1024.7	1021.0	1014.9	1013.9
5°	1153.2	1130.4	1086.0	1035.2	981.0	932.0	892.3	856.8	841.2	827.6	826.0
7.5°	1141.7	1107.5	1032.1	950.2	865.5	788.5	723.2	677.0	634.4	614.2	611.1
10°	1128.5	1079.5	971.4	857.7	740.7	632.0	535.0	453.7	404.4	375.1	371.4
12.5°	1116.1	1052.1	909.5	762.0	606.4	461.0	336.3	258.7	206.9	186.1	183.5
15°	1110.3	1029.9	851.6	664.0	466.0	293.5	183.8	142.3	125.3	120.4	120.1
17.5°	1109.7	1011.2	794.9	562.7	326.5	170.6	119.8	109.4	106.0	104.8	104.8
20°	1109.4	993.3	738.3	457.7	207.2	113.6	99.8	97.3	94.8	93.3	93.3
22.5°	1112.8	977.3	679.1	350.5	130.6	92.1	87.8	85.3	82.2	80.1	79.8
25°	1116.1	964.9	618.8	249.5	94.5	80.1	75.8	72.4	68.0	65.3	65.0
27.5°	1116.8	949.6	554.1	166.9	79.2	69.9	64.3	59.1	54.2	51.5	51.1
30°	1107.5	923.7	482.3	112.7	69.9	60.7	53.3	47.8	43.2	40.9	40.9
32.5°	1089.3	891.6	403.5	85.0	62.2	52.1	44.1	38.8	35.7	34.8	34.5
35°	1073.1	857.1	322.4	72.1	55.8	44.1	36.0	32.6	30.8	30.5	30.2
37.5°	1063.6	829.4	246.4	65.3	49.6	36.9	30.5	28.0	27.1	26.5	26.8
40°	1070.9	806.3	182.0	59.7	43.5	30.8	25.9	24.7	23.7	23.4	23.4
42.5°	1103.3	802.3	135.2	54.8	37.5	25.6	22.5	21.6	21.0	20.7	21.0
45°	1188.3	827.0	105.1	50.2	31.7	21.6	19.1	18.8	18.5	18.5	18.5
47.5°	1316.0	877.8	87.5	45.0	26.5	18.5	16.7	16.4	16.1	16.4	16.4
50°	1532.6	970.8	78.3	39.7	21.9	15.8	14.2	14.2	14.2	14.2	14.5
52.5°	1861.9	1153.8	72.1	34.5	17.9	13.2	12.0	12.0	12.3	12.3	12.6
55°	2228.7	1396.4	66.5	29.3	15.1	11.0	9.8	10.1	10.4	10.7	10.7
57.5°	2626.6	1665.4	61.9	24.0	12.9	8.9	8.3	8.6	8.9	9.5	9.5
60°	3106.8	1956.4	55.1	18.8	10.7	7.1	6.4	7.1	8.0	8.6	8.9
62.5°	3634.0	2237.9	46.5	14.8	8.9	5.5	5.2	6.4	7.7	8.3	8.6
65°	3994.4	2326.3	35.7	12.0	6.8	4.0	4.3	5.8	7.4	8.3	8.3
67°	3848.4	2109.1	29.3	10.1	5.5	3.1	4.0	5.8	7.4	8.0	8.3
67.5°	3747.1	2024.1	28.0	9.8	5.2	3.1	4.0	5.8	7.4	8.3	8.3
70°	3048.9	1520.6	23.4	7.4	4.3	2.8	3.4	5.5	7.1	8.0	8.0
72.5°	2118.4	937.5	21.0	5.2	3.7	2.5	3.1	5.2	6.8	7.7	8.0
75°	1007.2	339.4	17.9	4.0	3.4	2.1	2.8	5.2	6.8	7.7	7.7
77.5°	205.4	78.9	14.5	3.4	2.8	2.1	2.5	4.9	6.4	7.4	7.4
80°	67.4	30.5	10.7	3.1	2.8	2.1	2.5	4.6	6.4	7.1	7.4
82.5°	48.7	15.4	7.1	3.1	2.8	2.1	2.1	4.6	6.1	7.1	7.1
85°	37.2	10.7	4.6	3.1	2.8	2.1	2.1	4.3	5.8	6.8	6.8
87.5°	24.7	4.3	3.7	3.1	2.8	2.1	2.1	4.3	5.5	6.4	6.8
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)