

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: P193489

Luminaire Tested: **GLEON-AF-01-LED-E1-AFL-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193489  
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-01-LED-E1-AFL-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3438 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 34  
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

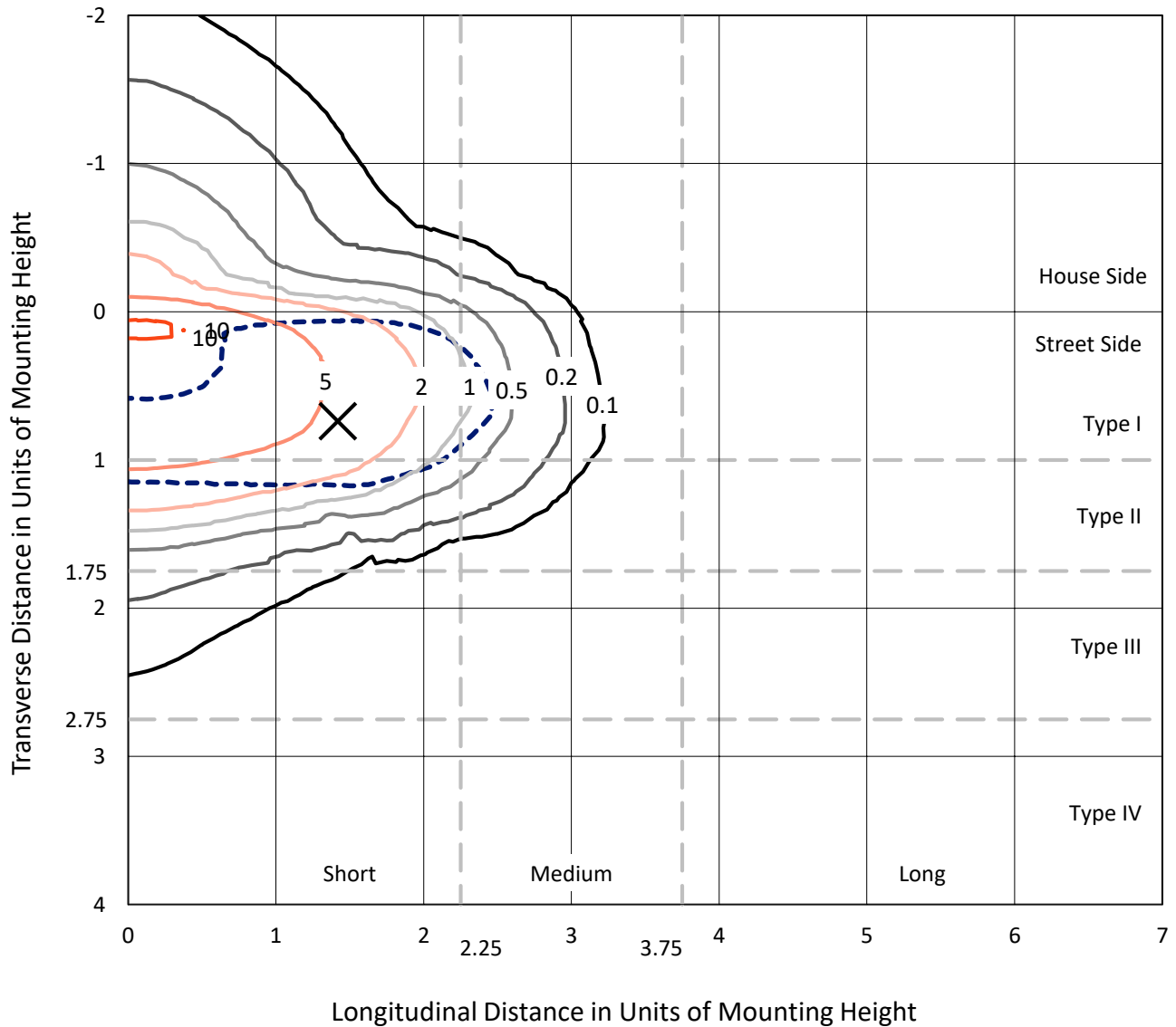


REPORT NUMBER: P193489

CATALOG NUMBER: GLEON-AF-01-LED-E1-AFL-8030-600

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

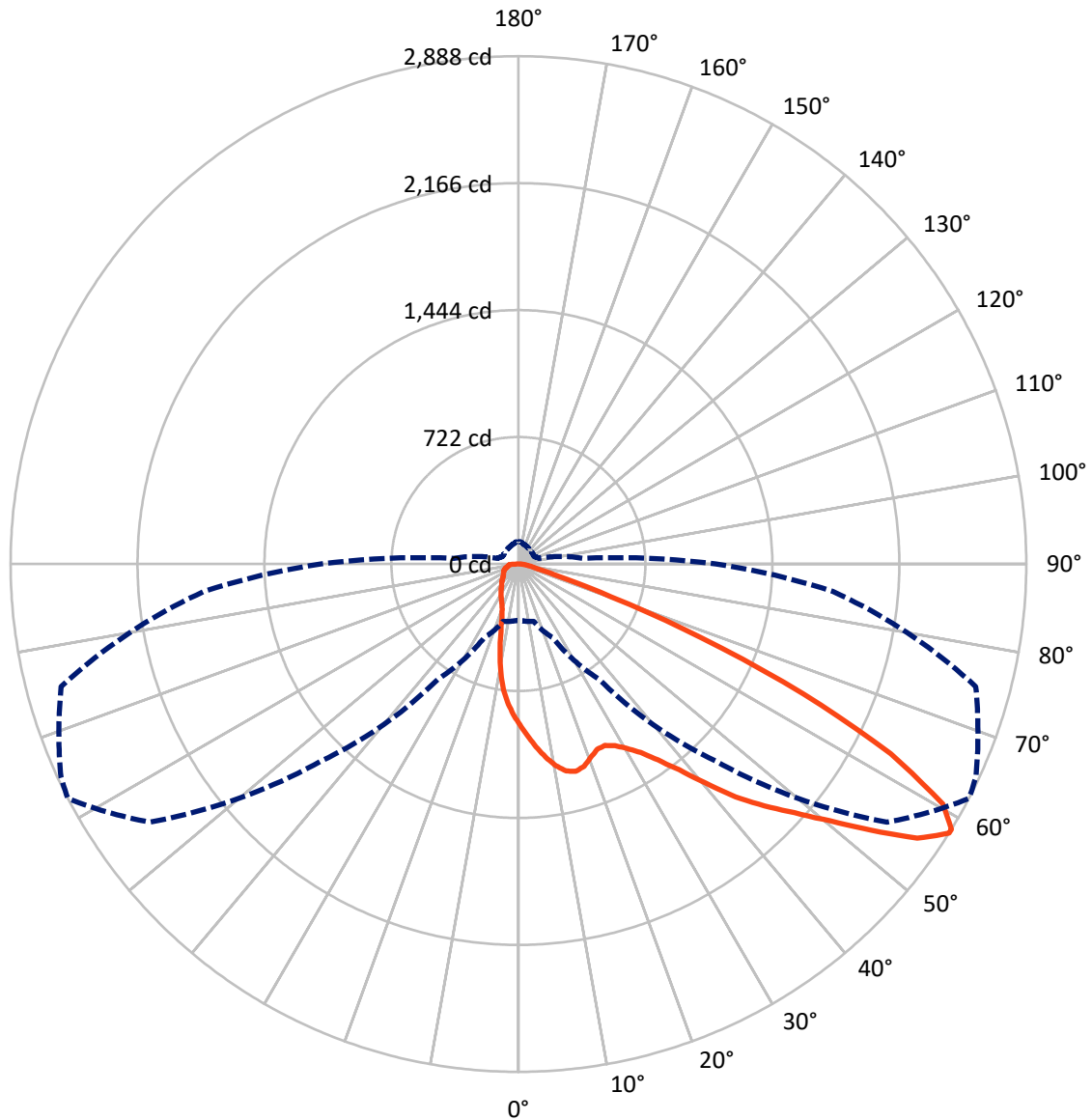


Based on 10 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P193489

CATALOG NUMBER: GLEON-AF-01-LED-E1-AFL-8030-600

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P193489

CATALOG NUMBER: GLEON-AF-01-LED-E1-AFL-8030-600

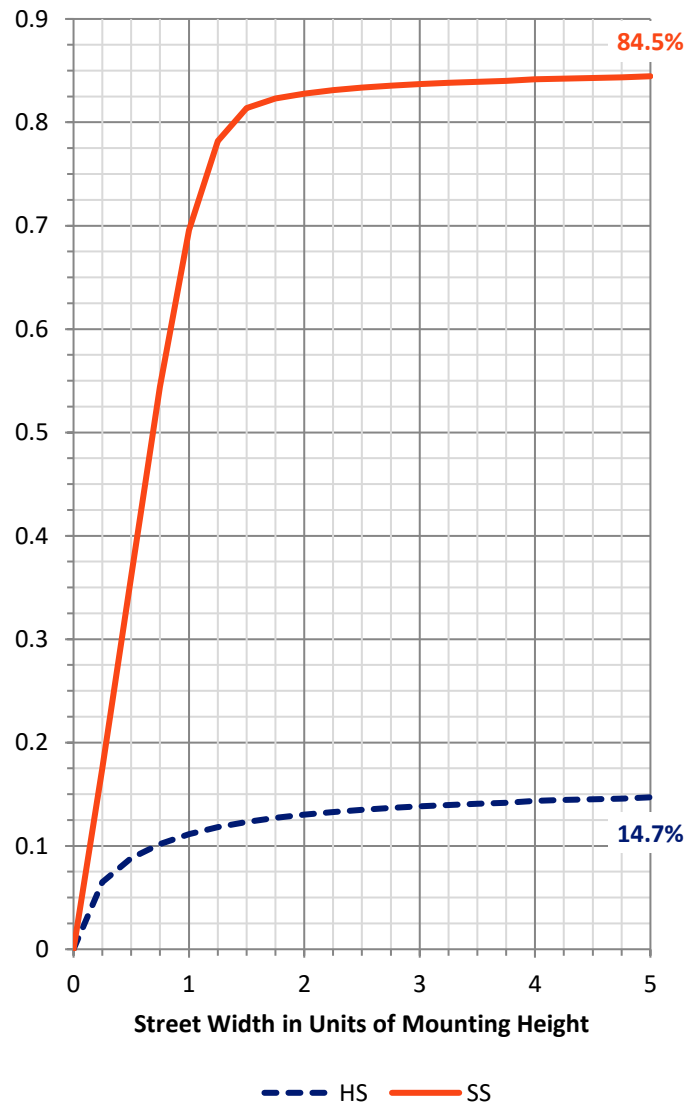
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	524.3	0.0	524.3
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	2913.7	0.0	2913.7
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	3438.0	0.0	3438.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.7	2.4
10°-20°	208.8	6.1
20°-30°	337.5	9.8
30°-40°	535.8	15.6
40°-50°	783.9	22.8
50°-60°	819.9	23.8
60°-70°	484.4	14.1
70°-80°	136.5	4.0
80°-90°	49.5	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°	3438.0	100.0
0°-180°	3438.0	100.0



REPORT NUMBER: P193489

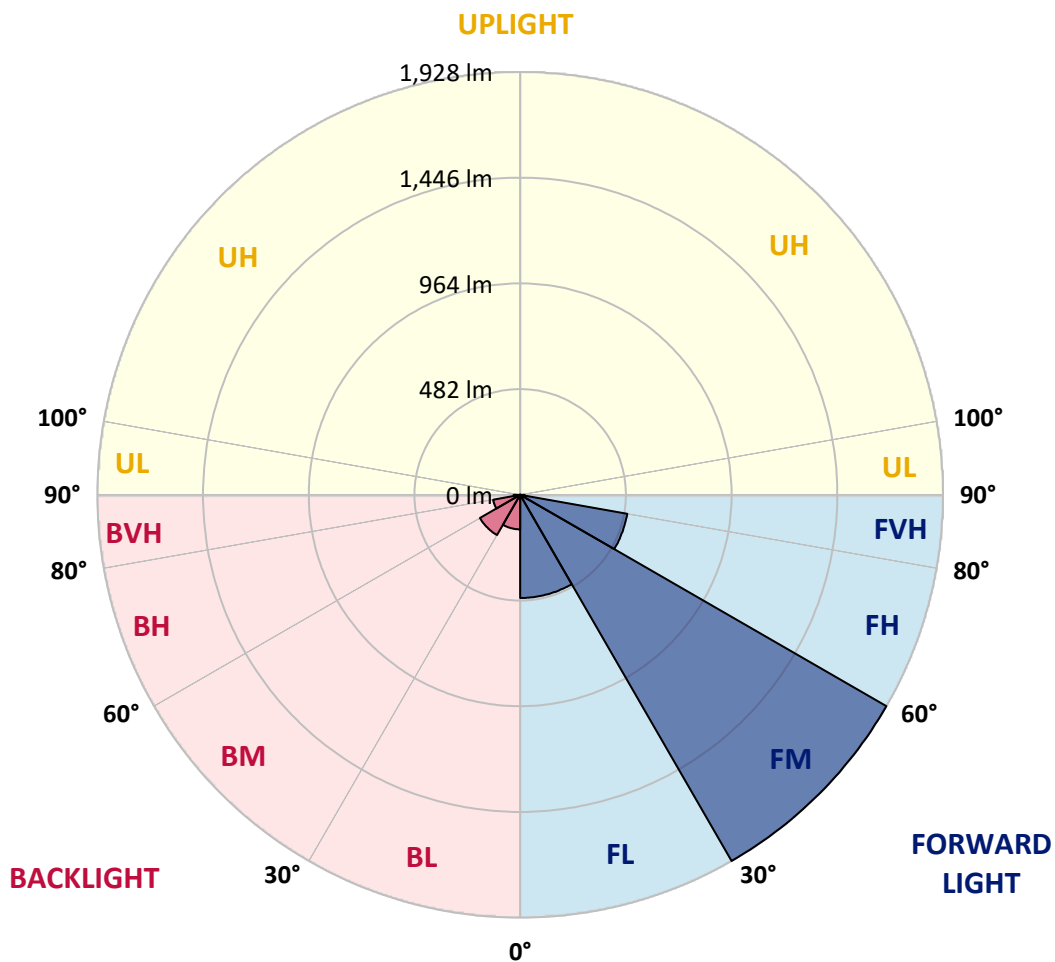
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	470.4	13.7			
FM	(30°-60°)	1928.0	56.1			
FH	(60°-80°)	495.8	14.4			G0/660
FVH	(80°-90°)	19.5	0.6			G1/100
BL	(0°-30°)	157.6	4.6	B1/500		
BM	(30°-60°)	211.6	6.2	B0/220		
BH	(60°-80°)	125.1	3.6	B1/500		G1/500
BVH	(80°-90°)	30.0	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





REPORT NUMBER: P193489

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	913.2	913.2	913.2	913.2	913.2	913.2	913.2	913.2	913.2	913.2	913.2
2.5°	1043.6	1035.1	1029.8	1025.1	1019.0	1005.8	988.2	977.0	971.4	952.1	929.3
5°	1145.9	1138.4	1132.9	1126.6	1115.6	1095.0	1066.5	1043.9	1032.7	994.2	948.5
7.5°	1121.9	1125.0	1134.5	1151.2	1165.5	1162.7	1137.3	1108.5	1093.7	1040.2	970.9
10°	977.5	982.8	999.4	1038.4	1101.5	1166.3	1186.0	1166.1	1151.2	1085.7	993.9
12.5°	948.5	948.4	949.7	960.0	997.6	1088.7	1187.6	1207.7	1198.8	1129.0	1017.3
15°	960.3	960.7	959.7	964.1	975.7	1011.8	1138.1	1223.7	1230.1	1172.7	1041.6
17.5°	991.4	990.6	986.9	986.9	991.1	1005.2	1079.8	1208.9	1238.0	1211.4	1063.0
20°	1043.6	1039.8	1030.0	1020.9	1016.4	1024.0	1055.9	1174.5	1224.2	1245.3	1080.6
22.5°	1106.7	1103.8	1087.8	1068.3	1052.6	1052.5	1068.2	1144.6	1200.4	1277.2	1095.5
25°	1188.3	1183.6	1159.8	1128.7	1101.2	1090.7	1095.0	1143.1	1187.5	1311.8	1108.8
27.5°	1284.1	1275.5	1247.4	1202.5	1162.1	1140.9	1134.5	1169.5	1199.3	1354.7	1127.3
30°	1400.4	1390.5	1354.4	1295.9	1238.8	1204.0	1190.6	1216.3	1238.5	1407.0	1156.9
32.5°	1532.6	1518.4	1476.6	1412.2	1337.1	1284.0	1262.1	1278.1	1295.8	1470.0	1194.0
35°	1715.4	1698.4	1638.0	1549.1	1464.3	1391.3	1356.3	1368.0	1385.2	1563.9	1247.5
37.5°	1840.1	1832.5	1792.3	1708.8	1616.5	1532.5	1478.4	1485.2	1494.9	1681.3	1316.2
40°	1838.9	1842.0	1842.8	1843.6	1780.8	1700.4	1642.2	1635.1	1633.2	1810.1	1394.2
42.5°	1746.8	1759.4	1800.2	1883.0	1921.2	1884.3	1831.0	1810.4	1800.2	1962.0	1476.9
45°	1605.8	1612.6	1689.0	1850.6	1993.1	2066.4	2026.1	1961.3	1942.9	2101.5	1545.6
47.5°	1533.1	1540.6	1588.6	1764.8	1992.2	2213.6	2236.9	2113.5	2080.5	2222.9	1604.8
50°	1360.1	1375.6	1436.1	1615.5	1919.6	2281.2	2457.2	2294.8	2226.5	2341.1	1664.3
52.5°	1042.3	1066.2	1134.1	1370.1	1735.2	2247.7	2633.5	2514.7	2418.2	2463.5	1715.2
55°	657.4	675.3	732.2	967.6	1388.1	2073.4	2700.4	2752.5	2666.7	2579.4	1759.4
57.5°	357.5	365.4	386.8	534.2	902.9	1687.9	2602.9	2887.8	2852.2	2677.9	1792.8
58°	319.9	325.2	338.5	463.0	800.7	1582.5	2559.7	2888.3	2870.5	2692.3	1795.4
60°	237.3	234.6	222.8	264.2	445.7	1093.3	2298.4	2772.7	2825.0	2709.9	1782.8
62.5°	208.5	201.9	177.8	175.0	216.8	503.6	1758.6	2375.1	2498.6	2609.2	1706.0
65°	195.9	188.8	157.7	147.6	156.4	213.1	1035.9	1781.3	1936.2	2303.9	1509.8
67.5°	186.5	177.3	144.9	131.1	131.8	140.8	415.3	1121.9	1296.3	1749.2	1174.4
70°	177.4	167.4	134.0	118.2	114.5	111.4	165.1	561.6	719.8	1104.9	748.8
72.5°	167.7	157.8	124.5	108.0	100.7	90.5	107.8	229.7	320.9	522.8	339.7
75°	153.6	144.7	114.9	98.9	88.6	75.0	81.4	120.0	143.9	208.2	163.7
77.5°	136.3	129.0	104.3	91.5	78.5	60.9	62.7	83.2	92.3	119.2	97.3
80°	97.9	100.5	92.8	82.2	69.9	49.4	48.1	60.7	65.6	76.6	63.3
82.5°	68.8	70.3	76.7	67.2	57.8	38.9	35.5	42.7	45.7	50.3	34.2
85°	47.4	45.8	52.6	46.8	41.8	25.9	24.3	29.0	30.8	31.2	17.6
87.5°	28.5	28.5	30.4	25.1	22.5	13.4	13.1	16.5	17.6	16.8	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193489

CATALOG NUMBER: GLEON-AF-01-LED-E1-AFL-8030-600

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	913.2	913.2	913.2	913.2	913.2	913.2	913.2	913.2	913.2	913.2	913.2
2.5°	915.7	904.2	879.7	860.1	835.4	809.6	795.2	779.8	769.3	761.7	773.8
5°	922.6	899.2	848.6	800.7	747.8	692.7	651.0	612.1	585.1	568.2	584.1
7.5°	933.6	897.5	817.1	735.2	640.1	548.5	466.6	415.3	385.3	370.6	379.8
10°	946.3	894.9	780.0	646.3	510.3	394.9	333.7	312.9	306.1	303.4	304.7
12.5°	956.8	889.4	734.5	538.8	383.2	311.8	294.2	293.7	295.1	295.5	295.9
15°	964.2	881.3	667.0	426.7	306.5	284.1	283.1	286.1	288.8	289.9	290.6
17.5°	969.2	864.7	590.7	337.4	274.6	270.7	273.0	276.7	279.6	280.4	281.0
20°	968.8	840.2	499.9	281.4	257.2	257.2	261.1	264.0	264.2	263.2	263.7
22.5°	963.7	806.7	411.9	251.6	241.9	244.6	248.5	245.8	234.4	227.0	227.5
25°	955.3	766.7	336.4	232.6	227.6	232.5	231.3	210.6	194.4	187.1	187.1
27.5°	947.9	719.4	278.5	216.1	213.4	219.4	199.3	180.5	173.7	170.3	169.2
30°	942.5	668.5	239.8	200.3	199.9	195.6	172.9	167.7	166.6	163.8	162.9
32.5°	943.8	616.8	215.0	186.3	187.5	167.4	160.3	161.4	160.4	157.5	156.2
35°	954.5	567.8	198.8	173.7	170.3	151.2	152.8	154.9	154.6	150.6	149.3
37.5°	973.6	521.3	188.1	163.2	148.6	143.1	145.7	148.9	148.1	145.4	144.4
40°	993.7	477.6	179.4	154.9	135.8	137.6	139.9	141.7	142.5	143.3	142.6
42.5°	1013.3	431.9	168.7	146.5	130.5	132.4	133.4	135.2	139.6	142.6	142.5
45°	1024.9	389.0	157.7	134.5	126.3	127.4	126.8	130.3	135.7	140.7	140.8
47.5°	1037.9	355.7	148.9	123.5	122.2	123.0	121.1	124.7	129.5	135.7	136.3
50°	1053.6	335.8	142.0	114.8	116.7	116.7	116.2	119.5	126.3	133.4	134.7
52.5°	1071.4	331.9	136.2	108.5	111.2	111.1	111.5	116.4	123.8	130.8	131.9
55°	1093.1	342.4	129.8	103.8	105.9	106.5	108.1	113.6	120.0	127.9	128.4
57.5°	1118.4	363.8	124.8	100.0	101.0	103.1	105.7	110.7	117.5	126.3	126.8
58°	1122.6	368.3	124.0	99.7	100.0	102.5	105.4	110.2	117.0	126.6	127.1
60°	1122.7	383.4	122.2	98.3	96.3	100.4	103.6	108.5	116.2	127.7	128.9
62.5°	1082.9	383.2	120.9	96.2	92.4	97.5	101.2	106.8	115.4	130.5	132.8
65°	953.5	348.2	114.8	92.9	89.4	94.9	99.1	105.7	117.7	142.5	143.9
67.5°	745.8	285.4	103.3	88.4	85.3	92.3	97.8	105.6	120.1	145.2	146.2
70°	493.1	213.5	90.7	83.2	81.1	89.2	98.4	111.1	117.4	139.4	136.8
72.5°	256.0	149.9	80.5	76.7	76.3	86.5	107.8	110.4	114.6	131.1	127.9
75°	134.4	104.1	71.6	69.6	70.4	85.8	127.2	107.5	111.1	125.5	131.6
77.5°	82.2	84.0	63.9	63.1	64.8	83.9	127.1	103.8	105.9	115.4	122.2
80°	55.0	68.2	58.1	58.3	59.4	76.7	114.1	97.9	99.6	109.1	116.1
82.5°	34.8	40.3	52.8	55.5	54.1	63.3	97.0	89.2	91.5	124.8	131.9
85°	17.6	25.3	45.8	53.4	48.7	44.4	78.7	78.2	79.3	90.0	94.1
87.5°	8.1	13.9	35.8	46.6	36.7	27.7	57.1	58.0	62.5	63.9	63.9
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)