

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: P191230

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL4-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7799 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

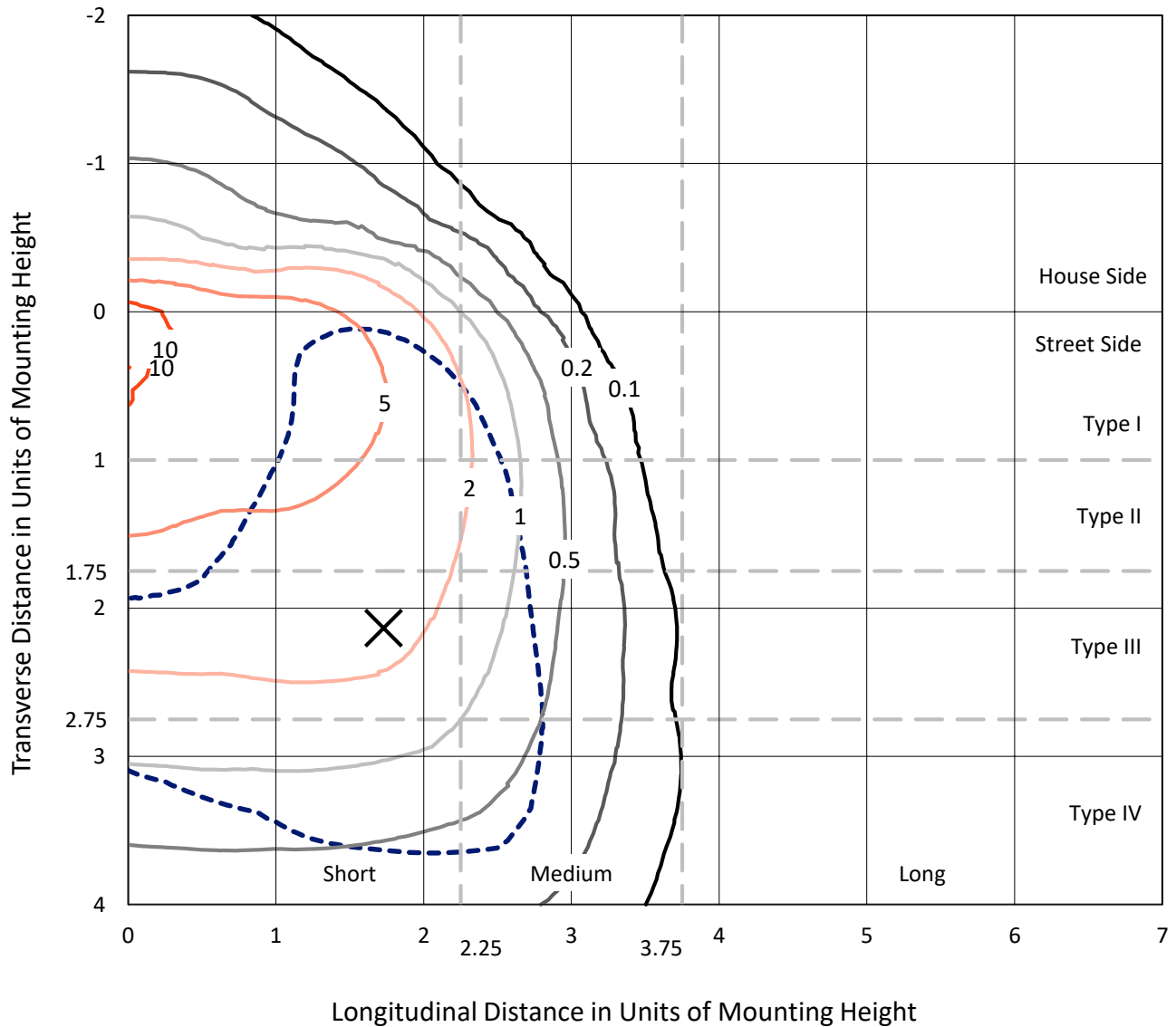
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

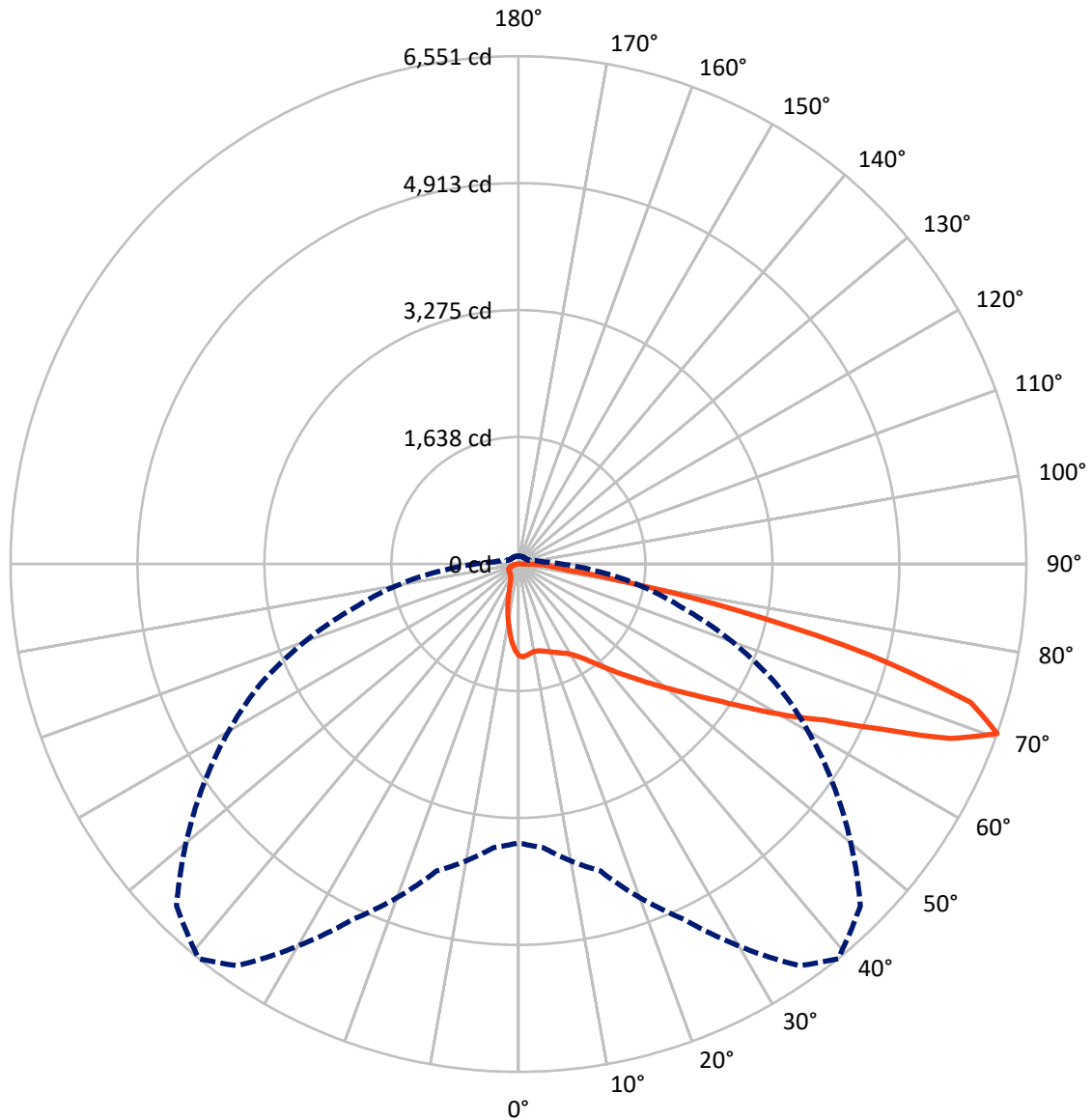
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	887.0	0.0	887.0
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	6912.0	0.0	6912.0
	% Fixture	88.6	0.0	88.6
Total	Lumens	7799.0	0.0	7799.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	1.3
10°-20°	254.0	3.3
20°-30°	395.5	5.1
30°-40°	616.1	7.9
40°-50°	1034.3	13.3
50°-60°	1643.0	21.1
60°-70°	2191.6	28.1
70°-80°	1323.4	17.0
80°-90°	239.5	3.1
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°	7799.0	100.0
0°-180°	7799.0	100.0



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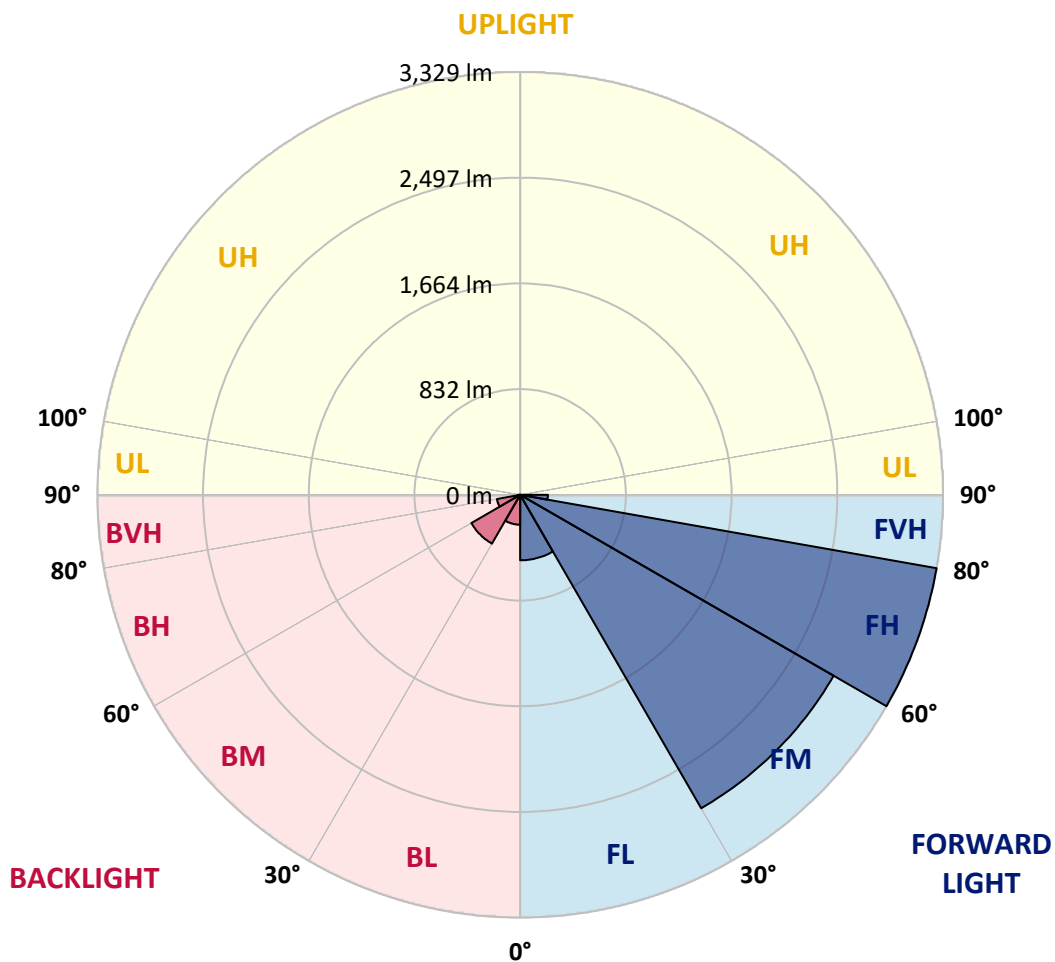
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	515.8	6.6			
FM	(30°-60°)	2849.4	36.5			
FH	(60°-80°)	3328.8	42.7			G2/5000
FVH	(80°-90°)	217.9	2.8			G2/225
BL	(0°-30°)	235.3	3.0	B1/500		
BM	(30°-60°)	443.9	5.7	B1/1000		
BH	(60°-80°)	186.2	2.4	B1/500		G1/500
BVH	(80°-90°)	21.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0
2.5°	1207.0	1206.6	1203.4	1201.0	1199.1	1198.3	1199.8	1193.9	1188.8	1182.4	1175.7
5°	1197.9	1197.5	1192.4	1187.5	1182.8	1181.2	1180.8	1170.2	1163.8	1154.3	1141.6
7.5°	1188.0	1186.0	1179.3	1171.3	1163.0	1159.0	1155.0	1141.2	1134.0	1124.5	1109.9
10°	1177.6	1175.3	1168.9	1161.0	1153.1	1147.1	1140.4	1126.9	1119.4	1112.3	1095.2
12.5°	1167.0	1164.9	1163.4	1159.8	1154.3	1149.1	1144.0	1132.5	1124.5	1116.2	1096.4
15°	1165.3	1164.5	1168.1	1170.6	1167.4	1164.2	1158.6	1148.7	1140.4	1132.1	1106.3
17.5°	1178.0	1177.6	1186.8	1193.2	1191.5	1186.0	1178.4	1167.4	1160.6	1153.5	1121.4
20°	1205.9	1207.8	1218.9	1227.2	1219.3	1211.4	1199.1	1183.7	1180.1	1176.9	1136.8
22.5°	1258.1	1260.2	1268.0	1271.2	1250.7	1239.1	1222.1	1202.3	1199.8	1202.3	1155.4
25°	1339.9	1337.8	1336.7	1324.7	1287.1	1269.3	1247.5	1226.8	1228.1	1238.7	1181.6
27.5°	1448.1	1437.3	1420.8	1385.1	1325.1	1305.4	1278.8	1259.8	1267.2	1287.9	1220.9
30°	1560.3	1548.4	1510.0	1451.7	1375.2	1353.4	1323.6	1302.2	1322.0	1354.5	1273.3
32.5°	1664.2	1662.6	1606.3	1531.4	1444.1	1425.1	1395.3	1371.2	1403.3	1452.8	1351.7
35°	1777.6	1781.2	1713.7	1623.7	1537.3	1517.4	1496.1	1477.9	1520.6	1588.8	1465.6
37.5°	1898.9	1906.1	1826.4	1724.9	1643.6	1635.3	1622.6	1614.6	1680.8	1775.2	1624.5
40°	2061.1	2054.0	1943.3	1839.1	1774.0	1773.6	1769.7	1779.2	1889.4	2018.7	1828.7
42.5°	2234.7	2213.8	2067.5	1961.6	1917.2	1930.6	1938.6	1977.5	2140.4	2314.5	2077.7
45°	2421.9	2374.8	2196.3	2091.2	2076.2	2104.7	2131.7	2216.1	2435.9	2651.1	2350.5
47.5°	2571.4	2525.9	2329.6	2227.3	2260.1	2303.4	2355.3	2488.9	2766.5	2998.9	2619.8
50°	2689.2	2659.5	2464.0	2385.8	2462.8	2529.3	2614.3	2797.9	3110.7	3337.5	2869.2
52.5°	2803.4	2781.2	2599.6	2548.5	2700.7	2792.7	2908.0	3129.3	3463.6	3670.6	3079.0
55°	2906.5	2890.7	2745.5	2751.0	2980.7	3100.4	3245.5	3506.8	3848.2	3967.6	3256.6
57.5°	3022.6	3002.5	2912.0	3005.2	3340.2	3495.7	3684.5	3931.1	4209.0	4231.6	3391.8
60°	3139.6	3122.1	3096.8	3298.6	3797.1	3960.5	4139.3	4342.3	4575.0	4436.6	3383.9
62.5°	3241.1	3243.2	3288.0	3606.7	4244.3	4433.5	4651.6	4852.2	4906.2	4472.3	3133.7
65°	3413.3	3444.6	3578.2	4042.9	4874.1	5127.0	5394.6	5362.5	4997.7	4138.9	2597.2
67.5°	3617.9	3672.9	3943.8	4624.2	5669.8	6005.6	6109.2	5477.9	4630.9	3364.5	1851.3
70°	3597.2	3672.9	4101.6	5057.6	6325.6	6550.9	6236.8	4957.6	3677.3	2197.9	983.4
72.5°	3194.4	3302.6	3780.0	4858.9	6119.1	6099.2	5414.5	3695.9	2184.8	882.6	384.2
75°	2434.6	2544.1	2954.9	3838.7	4836.3	4669.8	3841.9	2041.7	829.1	350.6	242.2
77.5°	1400.5	1485.3	1802.5	2354.1	3068.2	2897.4	2138.4	908.1	403.7	244.3	189.1
80°	781.9	829.1	1021.8	1194.3	1503.6	1378.3	956.8	564.3	301.4	177.3	145.9
82.5°	618.2	660.2	826.3	753.4	686.8	633.6	549.5	502.4	240.7	111.8	87.3
85°	540.0	580.1	699.5	593.2	469.1	430.3	446.5	494.5	187.2	67.4	74.6
87.5°	500.4	553.9	623.3	457.2	365.2	323.6	411.9	542.1	60.3	42.0	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°	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0
2.5°	1169.7	1163.4	1153.1	1144.0	1129.6	1122.2	1113.8	1107.9	1103.2	1099.2	1105.5
5°	1133.6	1121.8	1100.0	1076.6	1048.8	1026.9	1008.7	991.6	979.8	971.9	977.4
7.5°	1099.6	1080.1	1046.0	1003.6	956.0	915.5	882.3	852.9	832.7	819.6	824.8
10°	1080.1	1055.9	1003.2	936.6	866.4	803.3	751.1	705.8	674.4	656.6	659.4
12.5°	1075.3	1044.0	971.1	879.4	783.5	695.9	622.2	559.5	515.5	492.4	493.3
15°	1078.9	1038.9	940.9	824.8	703.4	592.8	500.8	424.6	373.5	347.4	347.0
17.5°	1084.8	1034.9	909.2	765.7	622.2	493.7	391.0	316.4	271.2	250.2	248.6
20°	1091.2	1028.6	873.5	701.8	537.7	401.7	306.1	247.9	219.3	207.8	206.9
22.5°	1100.4	1023.1	836.7	634.4	454.8	327.1	251.7	212.6	197.4	191.5	190.7
25°	1115.0	1020.3	797.4	564.3	380.2	273.6	219.3	195.1	186.4	182.4	182.0
27.5°	1139.6	1024.2	760.6	496.0	319.6	237.5	201.0	186.4	180.0	176.5	176.0
30°	1171.3	1036.5	721.7	431.4	272.4	213.0	190.0	180.4	175.2	171.7	171.7
32.5°	1224.1	1057.1	680.8	375.5	238.7	195.9	181.6	175.2	170.9	168.2	167.8
35°	1301.8	1096.0	642.7	329.1	214.5	183.6	174.5	169.7	166.5	165.0	165.0
37.5°	1414.7	1157.5	609.1	295.8	199.9	175.2	167.8	164.2	162.1	162.1	162.1
40°	1566.6	1242.3	581.6	273.6	191.5	169.3	162.5	159.8	158.6	159.0	159.0
42.5°	1754.2	1352.5	563.4	258.1	187.5	165.7	159.0	156.6	155.4	155.1	155.4
45°	1968.0	1477.9	561.5	246.6	183.6	163.4	156.6	154.3	151.9	150.3	150.3
47.5°	2175.7	1605.1	577.8	242.6	179.2	160.6	154.7	152.2	148.7	145.2	145.2
50°	2359.3	1713.3	599.6	244.3	177.7	156.6	151.5	150.3	144.7	140.8	140.3
52.5°	2505.2	1796.6	617.4	249.0	179.2	153.9	147.5	147.9	142.0	137.6	137.2
55°	2622.1	1851.3	612.6	253.8	182.8	152.2	143.9	144.7	139.9	135.6	135.6
57.5°	2673.4	1831.1	559.9	249.8	185.6	152.6	141.2	144.3	140.3	136.4	136.4
60°	2563.5	1651.5	461.1	232.3	182.0	151.5	139.9	145.9	145.6	141.6	141.2
62.5°	2231.3	1329.9	357.6	206.6	169.7	145.6	136.8	145.6	149.9	148.7	148.3
65°	1719.7	947.3	273.2	178.8	153.0	135.6	128.5	136.4	142.4	143.9	143.5
67.5°	1116.2	580.5	210.5	152.6	134.4	124.1	117.7	121.3	122.5	122.5	121.7
70°	548.8	312.4	167.8	128.5	115.4	111.8	108.2	106.3	104.2	102.7	102.7
72.5°	270.8	204.2	138.0	108.6	99.5	97.9	97.2	94.7	93.2	91.2	90.4
75°	200.2	166.1	117.3	91.6	85.6	84.1	85.6	83.7	83.3	81.7	80.9
77.5°	164.6	141.6	101.1	78.5	73.3	70.6	72.9	73.3	73.8	71.4	70.6
80°	133.6	119.8	84.5	65.1	60.3	58.3	59.8	63.0	63.8	60.3	58.7
82.5°	96.4	97.9	68.2	50.7	46.7	45.2	48.4	52.4	53.1	48.0	46.7
85°	80.9	81.7	52.4	36.1	32.1	29.8	34.9	38.9	41.6	36.5	35.3
87.5°	33.7	48.0	30.2	20.3	17.8	15.4	18.6	20.7	25.0	23.0	22.6
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)