

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: P192030

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192030
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-SL4-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 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: 7624 lumens
Efficiency: N/A
Efficacy: 115.5 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

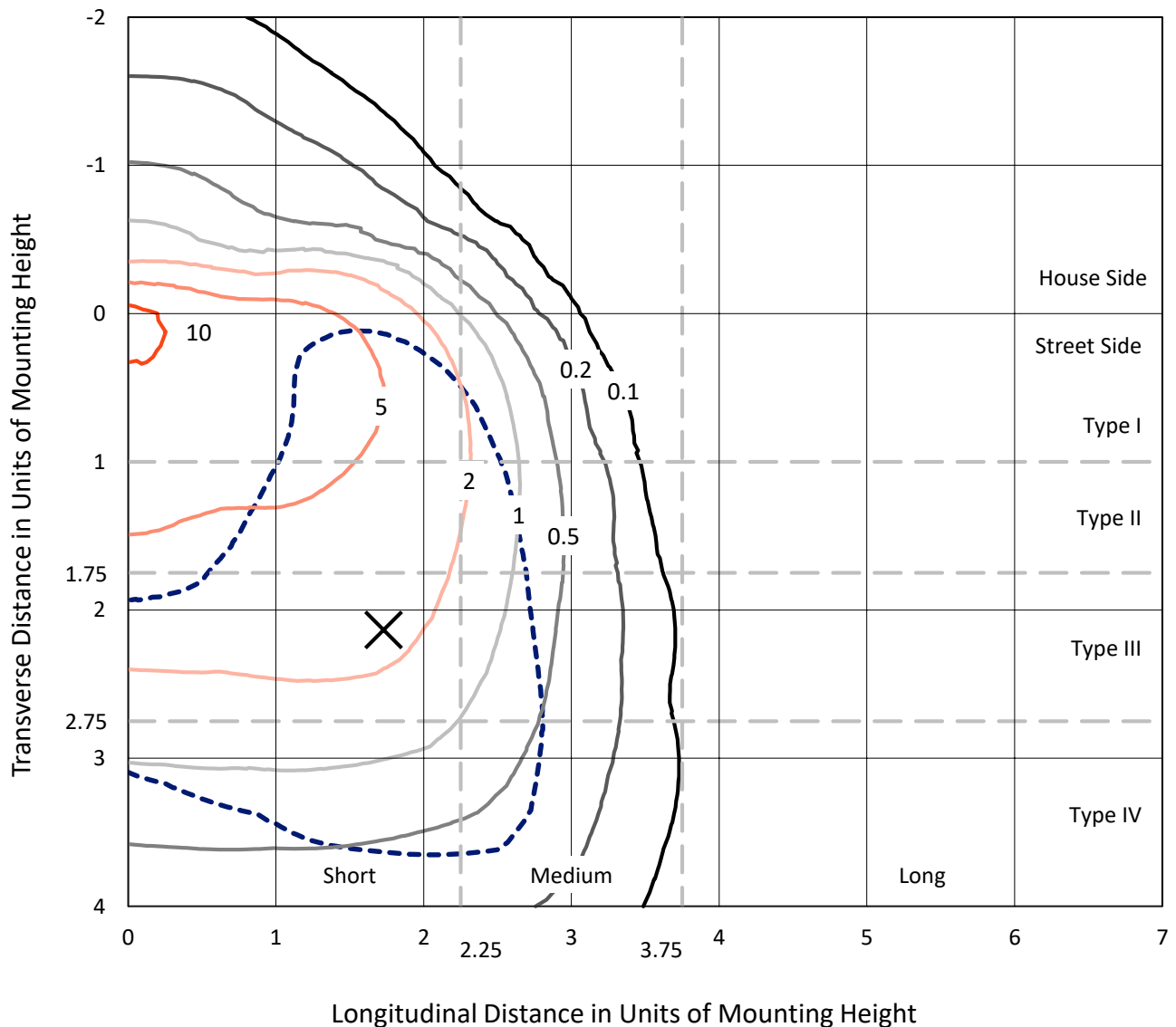
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P192030
 CATALOG NUMBER: GLEON-AF-02-LED-E1-SL4-7050-600

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

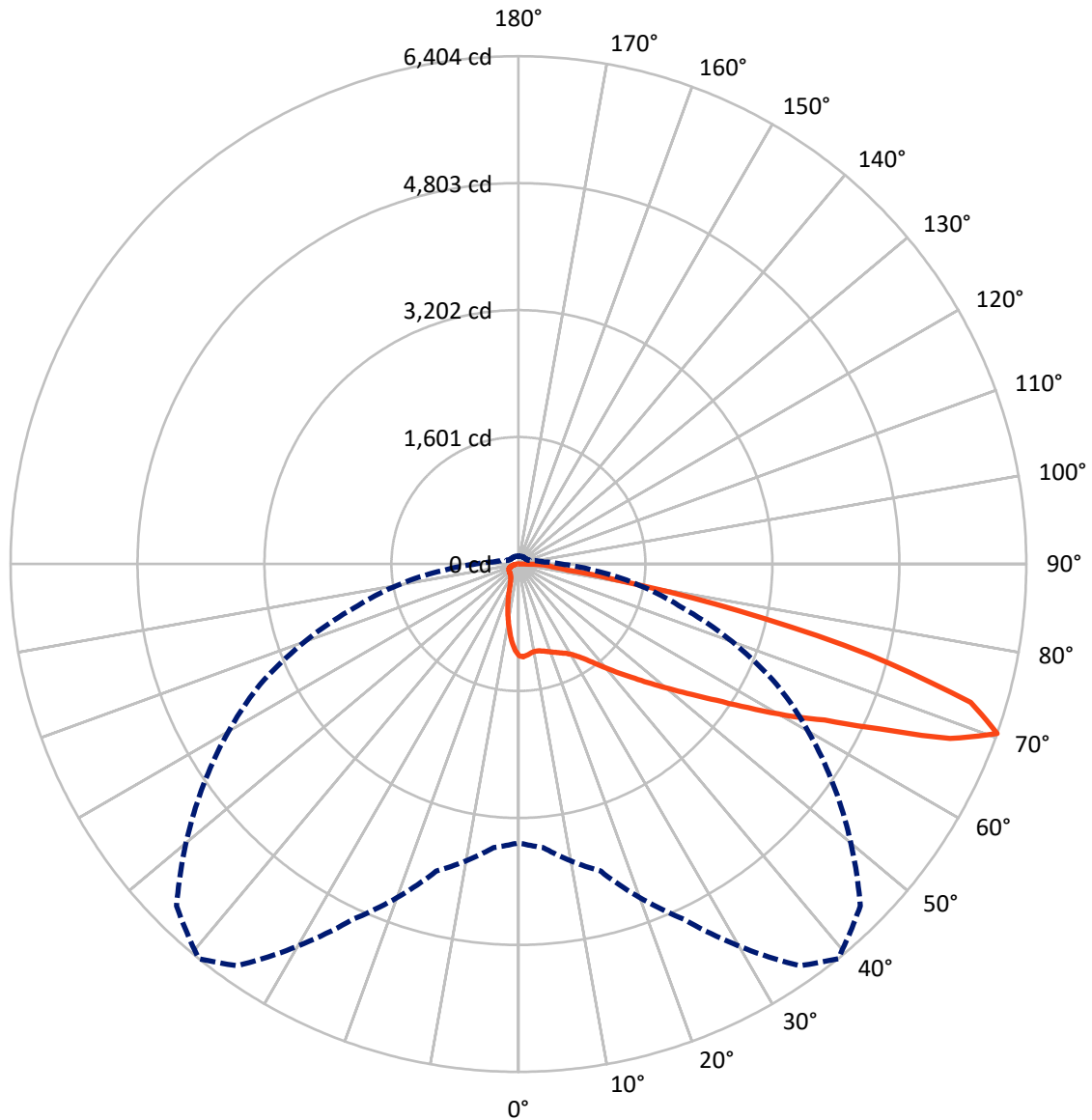


Based on 10 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192030

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL4-7050-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P192030

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL4-7050-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	867.1	0.0	867.1
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	6756.9	0.0	6756.9
	% Fixture	88.6	0.0	88.6
Total	Lumens	7624.0	0.0	7624.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	1.3
10°-20°	248.3	3.3
20°-30°	386.6	5.1
30°-40°	602.2	7.9
40°-50°	1011.1	13.3
50°-60°	1606.1	21.1
60°-70°	2142.4	28.1
70°-80°	1293.8	17.0
80°-90°	234.2	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°	7624.0	100.0
0°-180°	7624.0	100.0



REPORT NUMBER: P192030

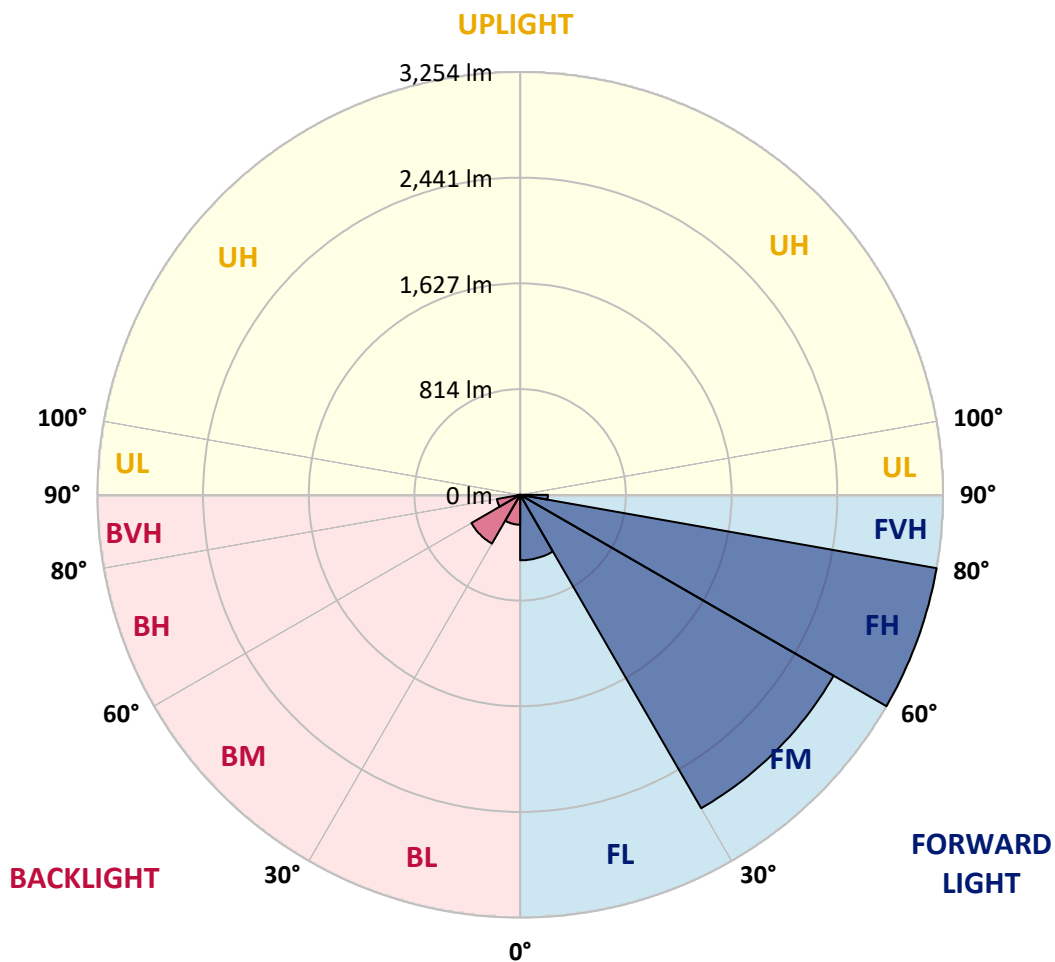
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	504.2	6.6			
FM	(30°-60°)	2785.5	36.5			
FH	(60°-80°)	3254.1	42.7			G2/5000
FVH	(80°-90°)	213.1	2.8			G2/225
BL	(0°-30°)	230.0	3.0	B1/500		
BM	(30°-60°)	433.9	5.7	B1/1000		
BH	(60°-80°)	182.0	2.4	B1/500		G1/500
BVH	(80°-90°)	21.1	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





REPORT NUMBER: P192030

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL4-7050-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4
2.5°	1179.9	1179.5	1176.4	1174.1	1172.2	1171.4	1172.9	1167.1	1162.1	1155.9	1149.3
5°	1171.0	1170.6	1165.6	1160.9	1156.3	1154.7	1154.3	1143.9	1137.7	1128.4	1116.0
7.5°	1161.3	1159.4	1152.8	1145.0	1136.9	1133.0	1129.1	1115.6	1108.6	1099.3	1085.0
10°	1151.2	1148.9	1142.7	1135.0	1127.2	1121.4	1114.8	1101.6	1094.3	1087.3	1070.6
12.5°	1140.8	1138.8	1137.3	1133.8	1128.4	1123.3	1118.3	1107.1	1099.3	1091.2	1071.8
15°	1139.2	1138.4	1141.9	1144.3	1141.2	1138.1	1132.6	1122.9	1114.8	1106.7	1081.5
17.5°	1151.6	1151.2	1160.2	1166.4	1164.8	1159.4	1152.0	1141.2	1134.6	1127.6	1096.2
20°	1178.8	1180.7	1191.6	1199.7	1191.9	1184.2	1172.2	1157.1	1153.6	1150.5	1111.3
22.5°	1229.9	1231.9	1239.6	1242.7	1222.6	1211.3	1194.7	1175.3	1172.9	1175.3	1129.5
25°	1309.8	1307.8	1306.7	1295.0	1258.2	1240.8	1219.5	1199.3	1200.5	1210.9	1155.1
27.5°	1415.6	1405.1	1388.9	1354.0	1295.4	1276.1	1250.1	1231.5	1238.8	1259.0	1193.5
30°	1525.3	1513.7	1476.1	1419.1	1344.3	1323.0	1293.9	1273.0	1292.3	1324.1	1244.7
32.5°	1626.9	1625.3	1570.3	1497.0	1411.7	1393.1	1364.0	1340.4	1371.8	1420.2	1321.4
35°	1737.7	1741.2	1675.3	1587.3	1502.8	1483.4	1462.5	1444.7	1486.5	1553.2	1432.7
37.5°	1856.3	1863.3	1785.4	1686.2	1606.7	1598.6	1586.2	1578.4	1643.1	1735.4	1588.1
40°	2014.9	2007.9	1899.7	1797.8	1734.2	1733.8	1730.0	1739.3	1847.0	1973.4	1787.7
42.5°	2184.6	2164.1	2021.1	1917.6	1874.2	1887.3	1895.1	1933.1	2092.4	2262.6	2031.1
45°	2367.6	2321.5	2147.0	2044.3	2029.6	2057.5	2083.9	2166.4	2381.2	2591.6	2297.8
47.5°	2513.7	2469.2	2277.3	2177.3	2209.4	2251.7	2302.5	2433.1	2704.4	2931.6	2561.0
50°	2628.9	2599.8	2408.7	2332.3	2407.5	2472.6	2555.6	2735.1	3040.9	3262.6	2804.8
52.5°	2740.5	2718.8	2541.3	2491.3	2640.1	2730.0	2842.8	3059.1	3385.9	3588.2	3009.9
55°	2841.3	2825.8	2683.9	2689.3	2913.8	3030.8	3172.7	3428.1	3761.9	3878.6	3183.5
57.5°	2954.8	2935.1	2846.7	2937.8	3265.3	3417.3	3601.8	3842.9	4114.6	4136.7	3315.7
60°	3069.2	3052.1	3027.3	3224.6	3711.9	3871.6	4046.4	4244.9	4472.4	4337.1	3308.0
62.5°	3168.4	3170.4	3214.2	3525.8	4149.1	4334.0	4547.2	4743.3	4796.1	4372.0	3063.4
65°	3336.7	3367.3	3497.9	3952.2	4764.7	5012.0	5273.6	5242.2	4885.6	4046.0	2538.9
67.5°	3536.7	3590.5	3855.3	4520.5	5542.6	5870.9	5972.1	5355.0	4527.0	3289.0	1809.8
70°	3516.5	3590.5	4009.6	4944.1	6183.7	6403.9	6096.9	4846.4	3594.8	2148.6	961.3
72.5°	3122.7	3228.5	3695.2	4749.9	5981.8	5962.4	5293.0	3613.0	2135.8	862.8	375.6
75°	2380.0	2487.0	2888.6	3752.6	4727.8	4565.0	3755.7	1995.9	810.5	342.7	236.8
77.5°	1369.1	1452.0	1762.1	2301.3	2999.4	2832.4	2090.4	887.7	394.6	238.8	184.9
80°	764.4	810.5	998.9	1167.5	1469.9	1347.4	935.3	551.6	294.6	173.3	142.6
82.5°	604.3	645.4	807.8	736.5	671.4	619.4	537.2	491.1	235.3	109.3	85.3
85°	527.9	567.1	683.8	579.9	458.6	420.6	436.5	483.4	183.0	65.9	72.9
87.5°	489.2	541.5	609.3	446.9	357.0	316.3	402.7	529.9	58.9	41.1	29.5
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: P192030

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL4-7050-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4
2.5°	1143.5	1137.3	1127.2	1118.3	1104.3	1097.0	1088.8	1083.0	1078.4	1074.5	1080.7
5°	1108.2	1096.6	1075.3	1052.4	1025.3	1003.9	986.1	969.4	957.8	950.1	955.5
7.5°	1074.9	1055.9	1022.5	981.1	934.6	895.0	862.5	833.8	814.0	801.2	806.3
10°	1055.9	1032.2	980.7	915.6	847.0	785.3	734.2	690.0	659.3	641.9	644.6
12.5°	1051.2	1020.6	949.3	859.7	765.9	680.3	608.2	546.9	503.9	481.4	482.2
15°	1054.7	1015.6	919.8	806.3	687.6	579.5	489.6	415.1	365.1	339.6	339.2
17.5°	1060.5	1011.7	888.8	748.5	608.2	482.6	382.2	309.3	265.1	244.6	243.0
20°	1066.7	1005.5	853.9	686.1	525.6	392.7	299.2	242.3	214.4	203.1	202.3
22.5°	1075.7	1000.1	817.9	620.2	444.6	319.8	246.1	207.8	193.0	187.2	186.4
25°	1090.0	997.4	779.5	551.6	371.7	267.5	214.4	190.7	182.2	178.3	177.9
27.5°	1114.0	1001.2	743.5	484.9	312.4	232.2	196.5	182.2	176.0	172.5	172.1
30°	1145.0	1013.2	705.5	421.7	266.3	208.2	185.7	176.4	171.3	167.8	167.8
32.5°	1196.6	1033.4	665.5	367.1	233.3	191.5	177.5	171.3	167.1	164.4	164.0
35°	1272.6	1071.4	628.3	321.7	209.7	179.5	170.6	165.9	162.8	161.3	161.3
37.5°	1383.0	1131.5	595.4	289.2	195.4	171.3	164.0	160.5	158.5	158.5	158.5
40°	1531.5	1214.4	568.6	267.5	187.2	165.5	158.9	156.2	155.0	155.4	155.4
42.5°	1714.8	1322.2	550.8	252.3	183.3	162.0	155.4	153.1	151.9	151.6	151.9
45°	1923.8	1444.7	548.9	241.1	179.5	159.7	153.1	150.8	148.5	146.9	146.9
47.5°	2126.9	1569.1	564.8	237.2	175.2	157.0	151.2	148.8	145.4	141.9	141.9
50°	2306.4	1674.9	586.1	238.8	173.7	153.1	148.1	146.9	141.5	137.6	137.2
52.5°	2449.0	1756.3	603.5	243.4	175.2	150.4	144.2	144.6	138.8	134.5	134.1
55°	2563.3	1809.8	598.9	248.1	178.7	148.8	140.7	141.5	136.8	132.6	132.6
57.5°	2613.4	1790.0	547.3	244.2	181.4	149.2	138.0	141.1	137.2	133.3	133.3
60°	2506.0	1614.4	450.8	227.1	177.9	148.1	136.8	142.6	142.3	138.4	138.0
62.5°	2181.2	1300.1	349.6	202.0	165.9	142.3	133.7	142.3	146.5	145.4	145.0
65°	1681.1	926.0	267.1	174.8	149.6	132.6	125.6	133.3	139.2	140.7	140.3
67.5°	1091.2	567.5	205.8	149.2	131.4	121.3	115.1	118.6	119.8	119.8	119.0
70°	536.5	305.4	164.0	125.6	112.8	109.3	105.8	103.9	101.9	100.4	100.4
72.5°	264.7	199.6	134.9	106.2	97.3	95.7	95.0	92.6	91.1	89.2	88.4
75°	195.7	162.4	114.7	89.5	83.7	82.2	83.7	81.8	81.4	79.9	79.1
77.5°	160.9	138.4	98.8	76.7	71.7	69.0	71.3	71.7	72.1	69.8	69.0
80°	130.6	117.1	82.6	63.6	58.9	57.0	58.5	61.6	62.4	58.9	57.4
82.5°	94.2	95.7	66.7	49.6	45.7	44.2	47.3	51.2	51.9	46.9	45.7
85°	79.1	79.9	51.2	35.3	31.4	29.1	34.1	38.0	40.7	35.7	34.5
87.5°	32.9	46.9	29.5	19.8	17.4	15.1	18.2	20.2	24.4	22.5	22.1
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)