

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: P299876

Luminaire Tested: **GLNA-AF-01-LED-E1-SL3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-SL3-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4853.8 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

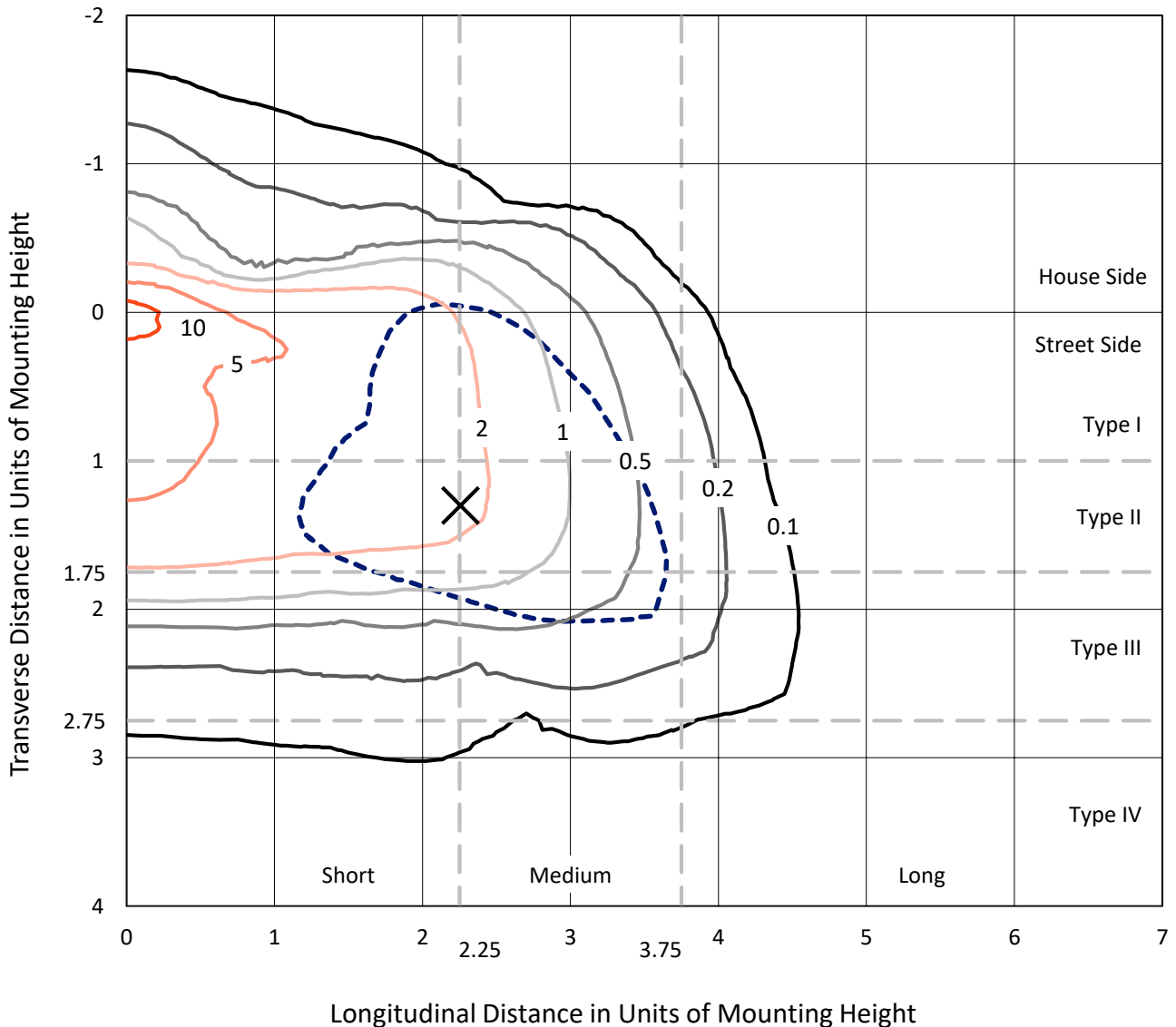
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P299876
 CATALOG NUMBER: GLNA-AF-01-LED-E1-SL3-7030-800

Iso-Footcandle Lines of Horizontal Illumination

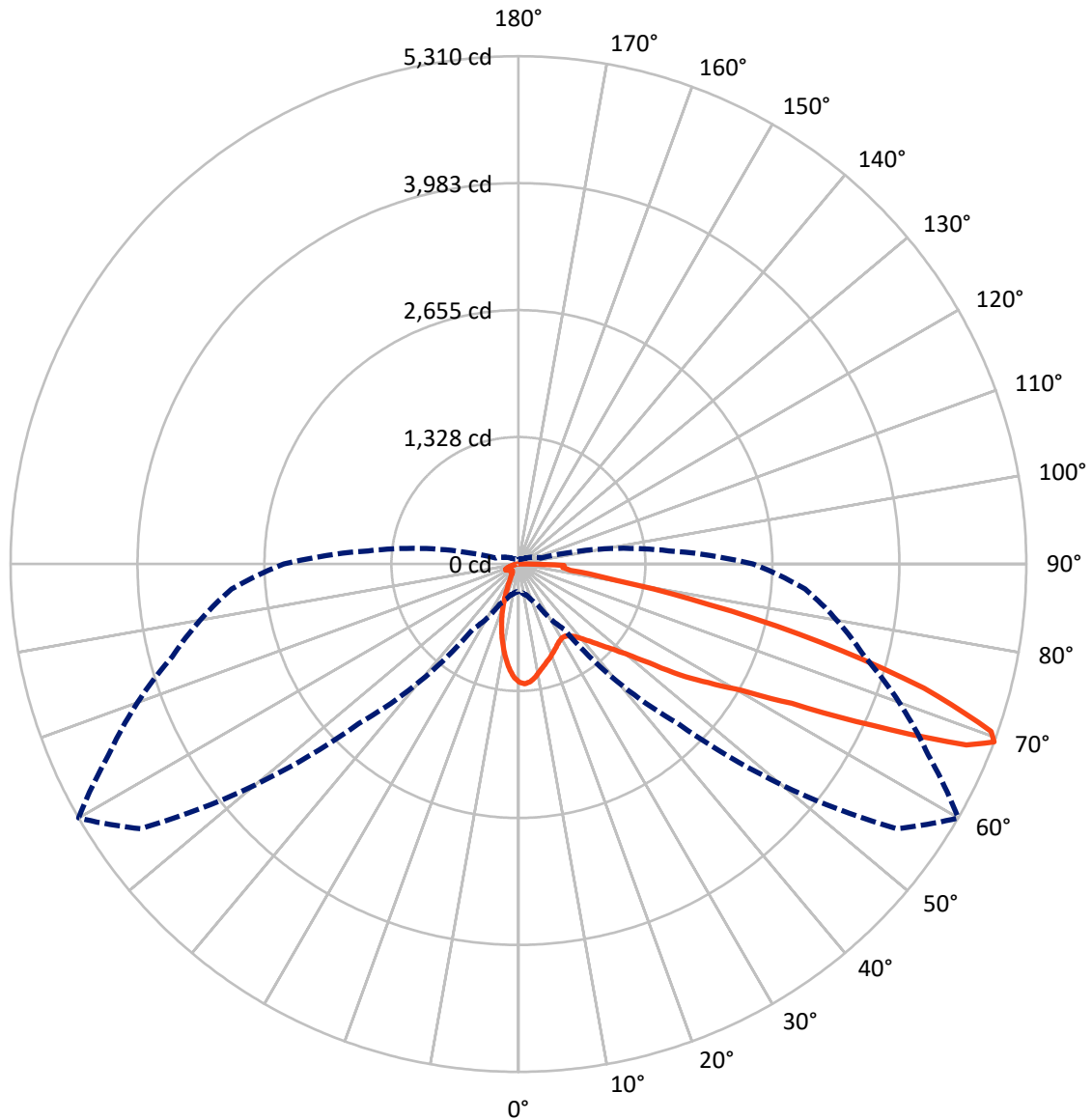
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P299876
CATALOG NUMBER: GLNA-AF-01-LED-E1-SL3-7030-800

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P299876

CATALOG NUMBER: GLNA-AF-01-LED-E1-SL3-7030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	690.5	0.0	690.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	4163.3	0.0	4163.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	4853.8	0.0	4853.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	2.2
10°-20°	222.8	4.6
20°-30°	283.9	5.8
30°-40°	390.3	8.0
40°-50°	633.3	13.0
50°-60°	1015.6	20.9
60°-70°	1351.7	27.8
70°-80°	729.8	15.0
80°-90°	121.8	2.5
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°	4853.8	100.0
0°-180°	4853.8	100.0

Coefficient of Utilization



REPORT NUMBER: P299876

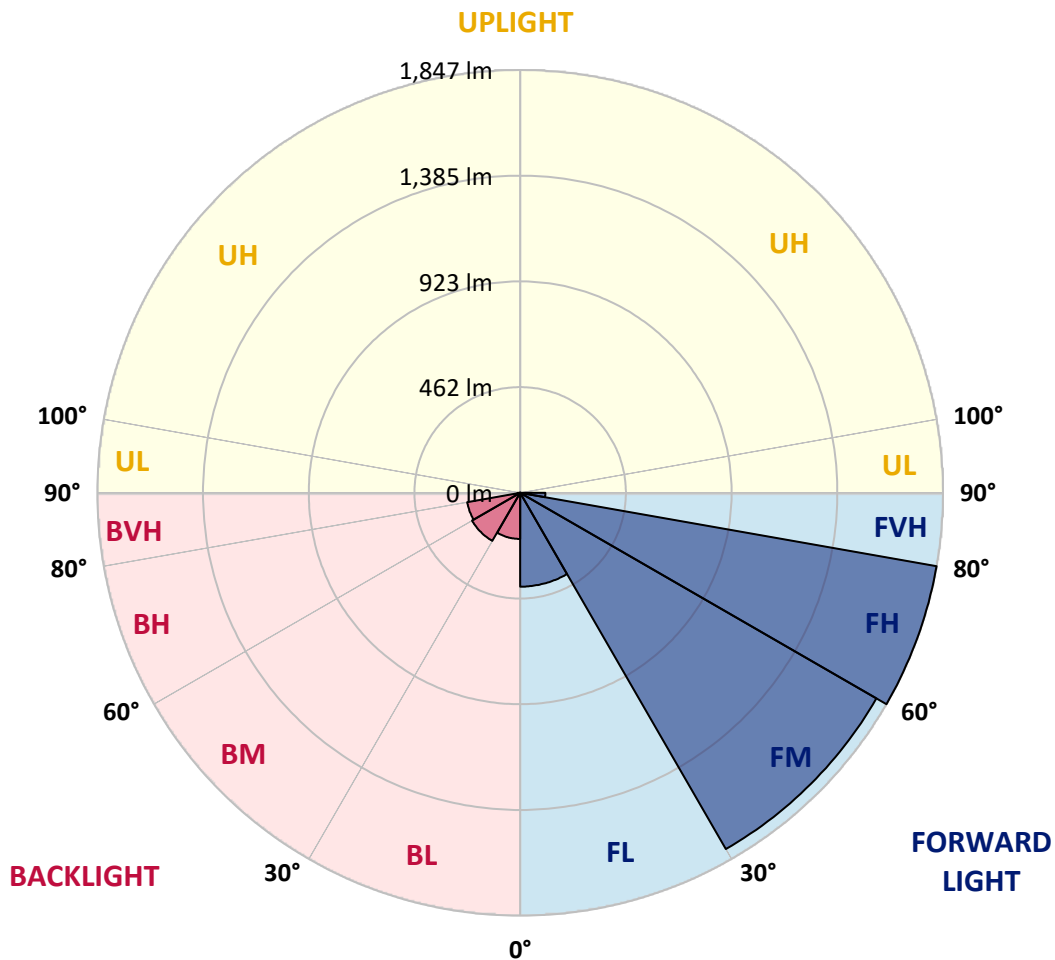
CATALOG NUMBER: GLNA-AF-01-LED-E1-SL3-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	409.8	8.4			
FM (30°-60°)	1796.6	37.0			
FH (60°-80°)	1846.8	38.0			G2/5000
FVH (80°-90°)	110.1	2.3			G2/225
BL (0°-30°)	201.5	4.2	B1/500		
BM (30°-60°)	242.6	5.0	B1/1000		
BH (60°-80°)	234.8	4.8	B1/500		G1/500
BVH (80°-90°)	11.7	0.2			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 III Medium





REPORT NUMBER: P299876

CATALOG NUMBER: GLNA-AF-01-LED-E1-SL3-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8
2.5°	1262.1	1265.0	1263.8	1263.1	1265.2	1261.9	1255.1	1253.0	1249.7	1242.0	1228.9
5°	1214.8	1223.2	1222.8	1229.1	1239.6	1242.5	1239.4	1239.9	1233.8	1224.2	1202.4
7.5°	1133.0	1136.5	1138.3	1152.2	1171.4	1186.9	1200.0	1204.2	1201.4	1193.2	1165.1
10°	1048.5	1051.4	1055.8	1072.0	1096.4	1117.7	1142.6	1156.9	1163.0	1161.6	1130.1
12.5°	976.1	978.9	984.8	1003.1	1032.1	1058.4	1094.5	1112.3	1126.9	1135.5	1101.8
15°	911.1	917.2	922.9	944.0	976.6	1011.0	1051.8	1074.3	1096.8	1116.3	1076.7
17.5°	860.5	866.6	869.9	889.1	923.8	966.0	1013.8	1040.3	1068.5	1100.4	1051.8
20°	831.2	834.0	832.6	843.4	874.6	919.4	976.1	1006.8	1040.8	1085.4	1027.0
22.5°	823.0	823.2	818.1	816.9	837.1	874.8	935.8	973.0	1014.8	1075.5	1005.6
25°	842.9	842.2	828.1	816.7	818.8	840.8	896.8	940.2	993.0	1073.4	989.2
27.5°	887.2	889.3	868.5	846.9	825.6	824.9	867.3	913.0	975.2	1083.0	982.2
30°	949.4	952.9	930.6	903.2	863.1	830.0	855.8	896.8	964.1	1102.9	981.0
32.5°	1017.4	1021.1	1004.2	975.4	922.9	861.9	863.8	898.3	963.7	1130.8	989.0
35°	1089.8	1094.0	1085.4	1061.0	1002.6	920.8	894.3	921.0	978.9	1173.5	1010.3
37.5°	1170.7	1177.3	1179.6	1156.4	1094.0	998.4	944.2	964.1	1013.4	1232.8	1049.5
40°	1287.2	1296.4	1295.7	1262.4	1198.8	1103.2	1021.3	1026.5	1067.1	1312.1	1112.1
42.5°	1510.4	1512.3	1453.9	1381.5	1314.2	1213.4	1112.3	1108.1	1141.2	1412.4	1204.2
45°	1794.4	1786.7	1656.8	1516.8	1434.7	1340.0	1230.7	1210.1	1235.2	1534.8	1319.6
47.5°	2030.0	2012.2	1848.1	1654.9	1562.3	1477.6	1369.8	1333.7	1347.5	1673.6	1468.7
50°	2111.9	2098.5	1962.5	1769.8	1683.0	1645.5	1540.9	1489.8	1493.6	1839.2	1643.4
52.5°	2094.3	2092.4	2001.7	1845.5	1796.0	1821.8	1783.4	1714.2	1677.6	2023.0	1831.9
55°	2052.8	2056.8	2023.9	1933.7	1925.2	1992.0	2100.1	2049.0	1935.3	2208.5	2026.8
57.5°	1908.6	1918.9	1991.1	2044.6	2133.2	2232.6	2355.2	2340.7	2212.7	2408.9	2258.4
60°	1537.6	1561.6	1755.2	2023.0	2347.3	2658.2	2713.0	2679.3	2498.7	2657.7	2564.4
62.5°	1077.4	1102.2	1332.5	1751.5	2312.1	3138.8	3352.7	3207.1	2909.5	3024.2	2960.4
65°	576.8	588.8	764.6	1215.3	1952.0	3238.0	4287.5	4065.9	3559.9	3476.0	3299.2
67.5°	318.2	324.7	392.0	613.6	1250.2	2851.4	4883.1	5050.5	4372.8	3776.8	3237.5
69°	287.7	293.8	337.9	464.7	836.6	2357.6	4824.9	5310.0	4729.2	3747.1	3009.6
70°	281.4	287.0	326.6	428.4	677.1	1943.3	4630.1	5243.7	4814.1	3640.4	2810.8
72.5°	253.2	259.3	297.8	384.8	578.7	968.8	3667.6	4433.6	4370.7	3156.4	2132.0
75°	236.1	241.7	306.9	376.8	554.1	613.1	2417.8	3267.6	3212.9	2208.0	1149.6
77.5°	101.1	100.6	142.3	318.9	562.3	593.7	1299.2	2041.3	1862.4	943.7	330.1
80°	67.5	66.4	67.5	93.8	515.6	597.0	680.7	1036.1	782.7	240.6	162.7
82.5°	58.1	57.2	59.3	57.2	181.2	681.4	578.7	551.0	372.1	136.7	80.7
85°	39.2	37.5	51.1	51.3	85.6	605.4	651.8	465.4	301.1	81.1	39.9
87.5°	18.8	18.3	29.8	36.3	50.2	246.0	731.3	476.9	303.6	41.5	19.0
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: P299876

CATALOG NUMBER: GLNA-AF-01-LED-E1-SL3-7030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8
2.5°	1224.9	1215.3	1205.9	1194.6	1182.9	1169.8	1163.2	1156.6	1155.0	1153.1	1146.6
5°	1191.1	1177.5	1154.1	1128.3	1101.1	1074.6	1054.4	1041.7	1032.1	1027.2	1018.5
7.5°	1147.5	1127.6	1086.5	1042.0	996.3	954.5	918.4	895.7	874.1	864.0	852.5
10°	1106.0	1076.2	1012.4	946.8	881.1	818.1	758.7	716.8	679.5	658.6	643.9
12.5°	1070.4	1029.6	941.2	852.3	762.3	672.5	583.6	513.7	455.3	424.6	408.9
15°	1035.6	986.4	873.4	760.6	645.0	522.9	406.1	326.8	278.5	259.3	252.8
17.5°	1004.2	941.2	805.4	668.2	524.0	376.3	272.9	229.3	210.8	204.5	202.3
20°	970.2	895.4	734.8	571.6	397.9	263.1	213.1	193.9	186.4	184.5	183.6
22.5°	937.4	850.4	667.3	468.2	285.8	203.1	183.1	175.1	174.0	175.6	175.6
25°	909.5	810.1	594.4	360.1	209.8	170.9	163.9	162.0	166.5	172.6	173.7
27.5°	888.6	777.0	516.8	265.9	167.2	148.7	148.4	151.5	162.5	174.2	176.6
30°	874.3	745.6	433.8	191.8	140.2	130.8	134.6	141.2	157.3	174.0	178.4
32.5°	867.1	722.4	347.2	148.4	120.0	114.9	121.2	129.2	145.1	160.6	166.5
35°	872.7	705.3	265.7	123.8	106.0	102.0	108.6	116.3	125.7	132.2	136.7
37.5°	893.8	698.5	200.5	110.9	96.4	92.6	97.8	102.2	106.0	107.9	110.0
40°	939.3	705.8	160.6	104.3	91.0	86.3	88.4	90.0	92.4	94.3	95.2
42.5°	1006.3	727.6	144.0	101.8	88.2	81.4	80.9	81.6	84.6	88.2	88.9
45°	1100.1	766.0	142.8	103.4	86.8	77.4	75.3	76.2	80.9	86.3	87.2
47.5°	1219.9	824.6	152.2	108.3	87.9	75.3	71.7	72.9	78.8	86.1	87.2
50°	1365.1	906.5	167.9	115.6	93.1	75.7	70.6	71.3	77.4	85.3	86.5
52.5°	1536.5	1022.5	185.0	122.6	98.5	78.8	71.5	69.9	75.5	82.5	83.9
55°	1727.1	1171.4	202.6	129.0	101.3	82.5	73.4	68.0	72.0	77.8	79.0
57.5°	1961.1	1379.6	233.1	135.1	103.2	85.1	75.3	66.1	67.5	71.7	72.7
60°	2277.9	1674.1	286.8	145.1	107.4	86.1	75.0	64.5	63.1	65.4	65.9
62.5°	2657.5	1993.9	331.5	157.8	114.4	86.8	73.6	63.3	59.3	59.3	59.8
65°	2882.8	2079.5	306.7	168.3	120.3	86.1	72.0	62.1	56.5	53.9	54.2
67.5°	2691.7	1828.9	262.8	170.5	120.0	82.8	69.4	60.0	53.7	49.7	49.5
69°	2452.3	1578.0	243.1	164.8	114.4	78.5	66.1	57.7	51.6	47.4	47.1
70°	2259.3	1424.9	230.2	158.7	108.3	75.5	63.5	55.6	49.9	46.0	45.5
72.5°	1642.7	933.7	196.7	136.5	89.3	63.3	54.9	48.8	44.5	42.2	41.7
75°	820.9	445.3	159.7	110.7	68.5	50.6	45.0	40.8	38.7	38.2	38.0
77.5°	269.6	204.0	114.2	82.5	50.9	39.6	36.3	33.3	32.8	34.2	33.8
80°	148.2	118.6	72.5	54.6	34.7	29.1	28.6	27.0	27.7	30.0	29.5
82.5°	75.5	61.7	44.8	32.8	23.4	20.9	22.7	21.8	22.7	24.9	24.6
85°	37.3	33.8	28.4	19.9	15.5	13.4	16.2	16.9	17.4	19.0	19.0
87.5°	21.6	19.9	15.0	9.4	7.7	7.0	9.4	9.1	10.8	11.7	11.5
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)