

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: P299815

Luminaire Tested: **GLNA-AF-01-LED-E1-SL3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299815
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-SL3-7027
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5396.6 lumens
Efficiency: N/A
Efficacy: 91.5 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

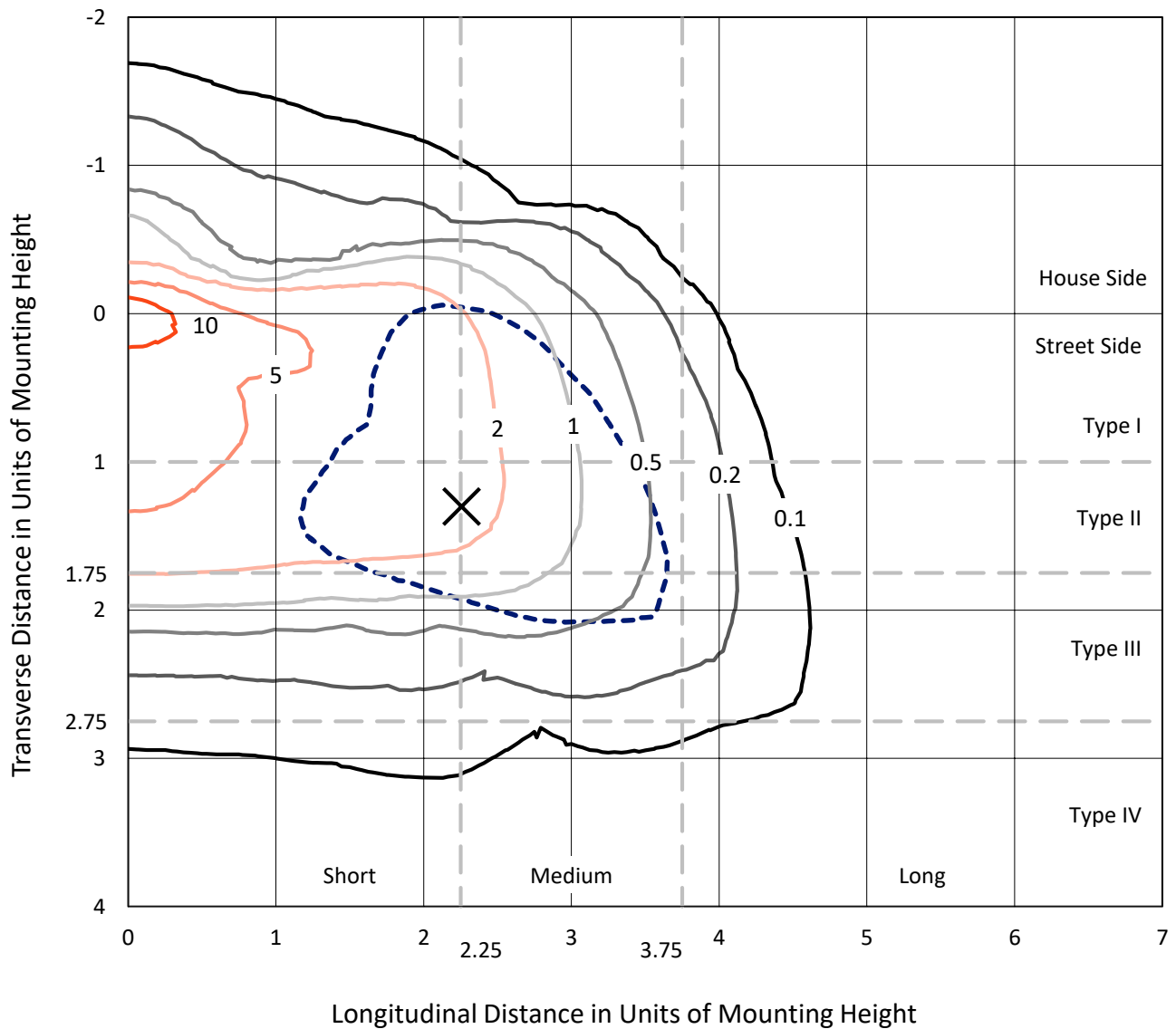
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

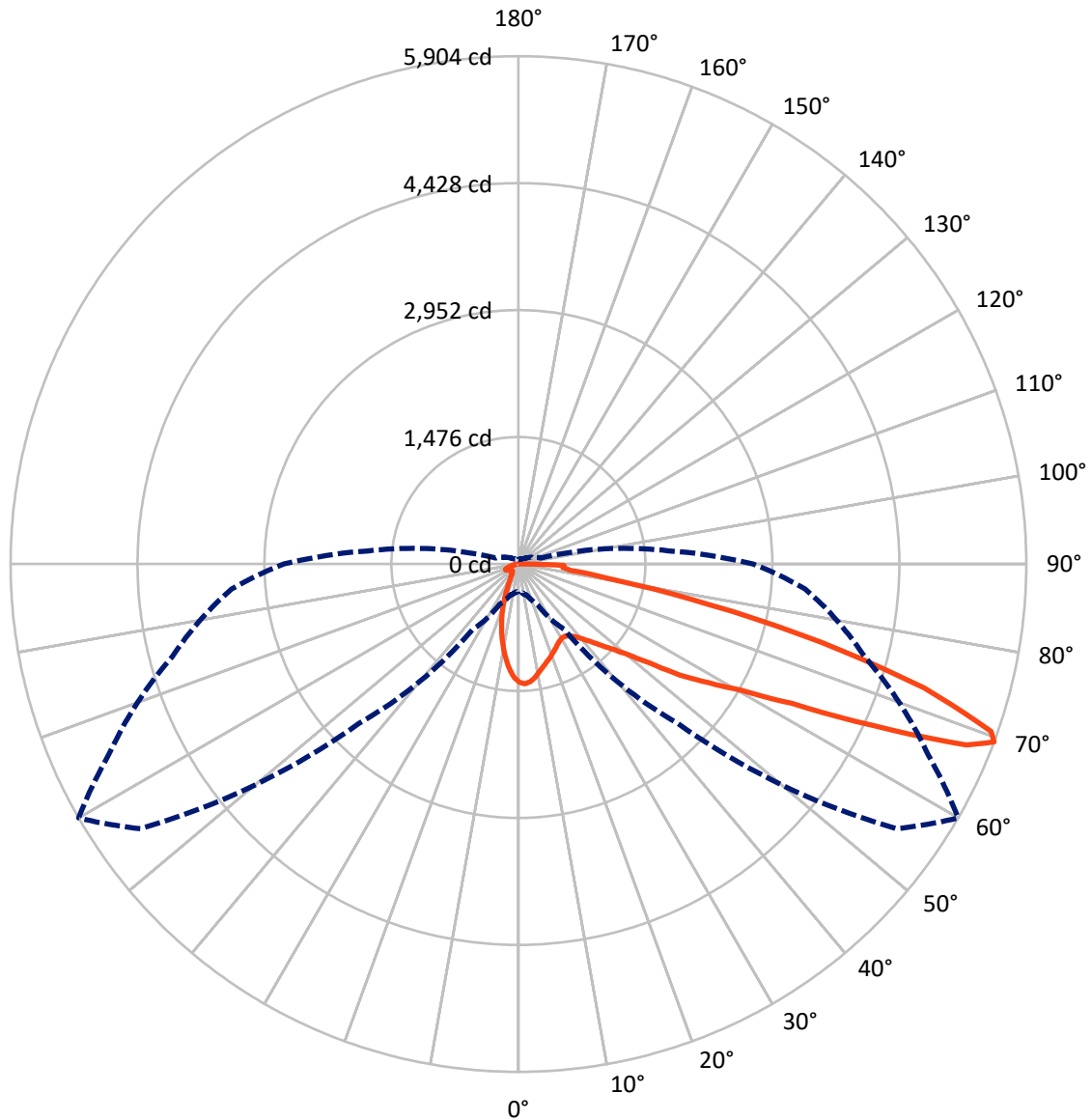
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	767.8	0.0	767.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	4628.9	0.0	4628.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	5396.6	0.0	5396.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	2.2
10°-20°	247.7	4.6
20°-30°	315.6	5.8
30°-40°	433.9	8.0
40°-50°	704.1	13.0
50°-60°	1129.2	20.9
60°-70°	1502.9	27.8
70°-80°	811.4	15.0
80°-90°	135.4	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°	5396.6	100.0
0°-180°	5396.6	100.0

Coefficient of Utilization



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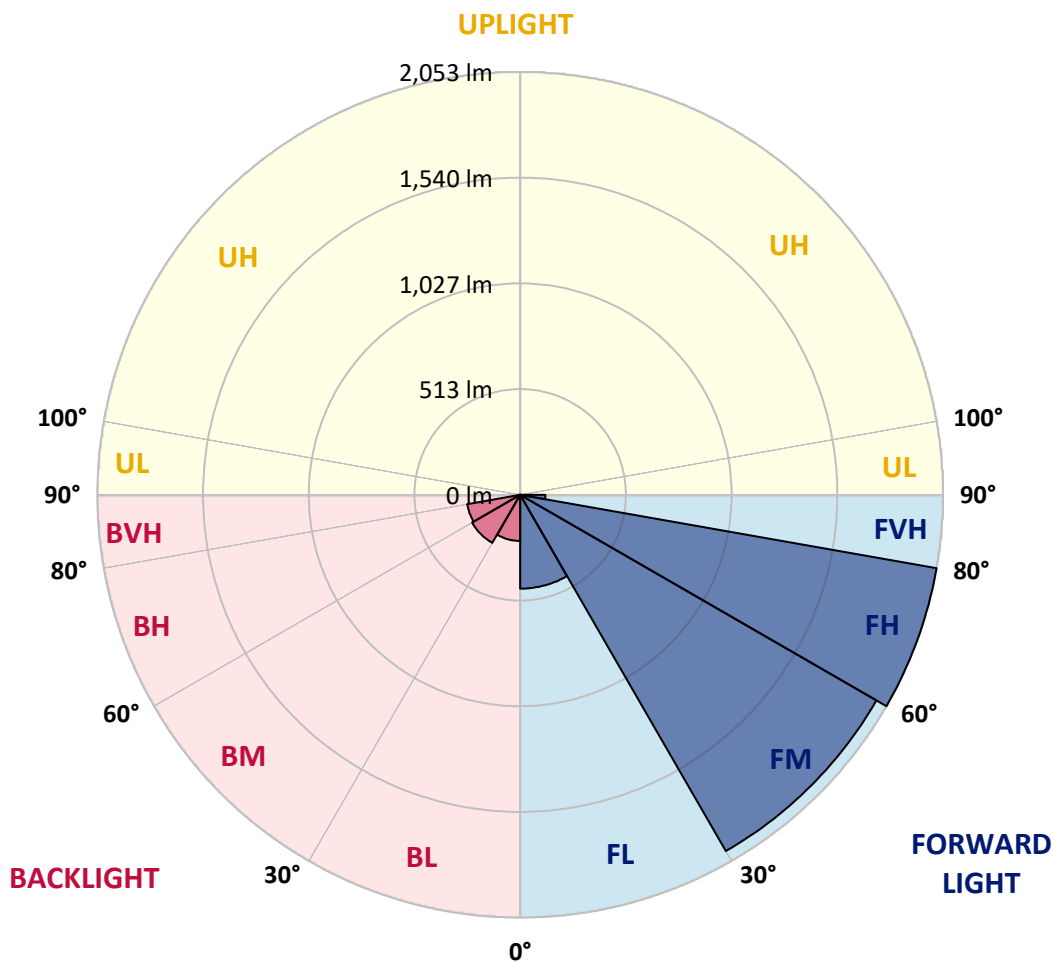
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	455.7	8.4			
FM (30°-60°)	1997.5	37.0			
FH (60°-80°)	2053.3	38.0			G2/5000
FVH (80°-90°)	122.4	2.3			G2/225
BL (0°-30°)	224.0	4.2	B1/500		
BM (30°-60°)	269.7	5.0	B1/1000		
BH (60°-80°)	261.0	4.8	B1/500		G1/500
BVH (80°-90°)	13.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1
2.5°	1403.3	1406.4	1405.1	1404.3	1406.7	1403.0	1395.5	1393.1	1389.5	1380.9	1366.3
5°	1350.6	1360.0	1359.5	1366.5	1378.3	1381.4	1378.0	1378.5	1371.8	1361.1	1336.8
7.5°	1259.7	1263.6	1265.7	1281.0	1302.4	1319.6	1334.2	1338.9	1335.8	1326.7	1295.4
10°	1165.8	1168.9	1173.9	1191.9	1219.0	1242.7	1270.3	1286.2	1293.0	1291.5	1256.5
12.5°	1085.3	1088.4	1094.9	1115.2	1147.6	1176.8	1216.9	1236.7	1252.9	1262.5	1225.0
15°	1013.0	1019.8	1026.1	1049.5	1085.8	1124.1	1169.5	1194.5	1219.5	1241.1	1197.1
17.5°	956.7	963.5	967.2	988.5	1027.1	1074.0	1127.2	1156.7	1188.0	1223.4	1169.5
20°	924.1	927.3	925.7	937.7	972.4	1022.2	1085.3	1119.4	1157.2	1206.7	1141.8
22.5°	915.0	915.3	909.5	908.2	930.7	972.6	1040.4	1081.9	1128.3	1195.8	1118.1
25°	937.2	936.4	920.8	908.0	910.3	934.8	997.1	1045.4	1104.0	1193.4	1099.9
27.5°	986.5	988.8	965.6	941.6	917.9	917.1	964.3	1015.1	1084.2	1204.1	1092.0
30°	1055.5	1059.4	1034.7	1004.2	959.6	922.8	951.5	997.1	1072.0	1226.3	1090.7
32.5°	1131.1	1135.3	1116.5	1084.5	1026.1	958.3	960.4	998.7	1071.4	1257.3	1099.6
35°	1211.7	1216.4	1206.7	1179.6	1114.7	1023.7	994.3	1024.0	1088.4	1304.8	1123.3
37.5°	1301.6	1308.9	1311.5	1285.7	1216.4	1110.0	1049.8	1072.0	1126.7	1370.7	1166.9
40°	1431.2	1441.4	1440.6	1403.6	1332.9	1226.5	1135.6	1141.3	1186.4	1458.8	1236.5
42.5°	1679.4	1681.5	1616.5	1536.0	1461.2	1349.1	1236.7	1232.0	1268.8	1570.4	1338.9
45°	1995.1	1986.5	1842.0	1686.4	1595.2	1489.8	1368.4	1345.4	1373.3	1706.5	1467.2
47.5°	2257.1	2237.2	2054.8	1840.0	1737.0	1642.9	1523.0	1482.8	1498.2	1860.8	1633.0
50°	2348.0	2333.2	2182.0	1967.7	1871.2	1829.5	1713.3	1656.4	1660.6	2044.9	1827.2
52.5°	2328.5	2326.4	2225.5	2051.9	1996.9	2025.6	1982.8	1905.9	1865.2	2249.2	2036.8
55°	2282.3	2286.8	2250.3	2149.9	2140.5	2214.8	2335.0	2278.2	2151.7	2455.4	2253.4
57.5°	2122.0	2133.5	2213.8	2273.2	2371.8	2482.3	2618.6	2602.5	2460.1	2678.3	2511.0
60°	1709.6	1736.2	1951.5	2249.2	2609.8	2955.4	3016.5	2978.9	2778.2	2954.9	2851.2
62.5°	1197.9	1225.5	1481.5	1947.4	2570.7	3489.9	3727.6	3565.7	3234.9	3362.4	3291.5
65°	641.3	654.6	850.1	1351.2	2170.2	3600.1	4767.0	4520.6	3958.1	3864.7	3668.2
67.5°	353.8	361.1	435.9	682.2	1390.0	3170.3	5429.1	5615.3	4861.9	4199.2	3599.6
69°	319.9	326.6	375.7	516.7	930.1	2621.2	5364.5	5903.9	5258.1	4166.1	3346.2
70°	312.8	319.1	363.1	476.3	752.9	2160.6	5147.9	5830.1	5352.5	4047.5	3125.2
72.5°	281.5	288.3	331.1	427.8	643.4	1077.2	4077.7	4929.4	4859.5	3509.4	2370.5
75°	262.5	268.8	341.2	418.9	616.0	681.7	2688.2	3633.0	3572.2	2454.9	1278.2
77.5°	112.4	111.8	158.2	354.5	625.1	660.1	1444.5	2269.6	2070.7	1049.3	367.1
80°	75.1	73.8	75.1	104.3	573.3	663.7	756.8	1152.0	870.2	267.5	180.9
82.5°	64.7	63.6	66.0	63.6	201.5	757.6	643.4	612.6	413.7	152.0	89.7
85°	43.5	41.7	56.8	57.1	95.2	673.1	724.7	517.5	334.7	90.2	44.3
87.5°	20.9	20.3	33.1	40.4	55.8	273.5	813.1	530.2	337.6	46.1	21.1
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°	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1
2.5°	1361.8	1351.2	1340.7	1328.2	1315.2	1300.6	1293.3	1286.0	1284.2	1282.1	1274.8
5°	1324.3	1309.2	1283.1	1254.4	1224.2	1194.7	1172.3	1158.2	1147.6	1142.1	1132.4
7.5°	1275.8	1253.7	1208.0	1158.5	1107.7	1061.3	1021.1	995.8	971.9	960.6	947.9
10°	1229.7	1196.6	1125.7	1052.7	979.7	909.5	843.6	796.9	755.5	732.3	715.9
12.5°	1190.1	1144.7	1046.4	947.6	847.5	747.7	648.9	571.2	506.3	472.1	454.6
15°	1151.5	1096.7	971.1	845.7	717.2	581.3	451.5	363.4	309.7	288.3	281.0
17.5°	1116.5	1046.4	895.5	743.0	582.6	418.4	303.4	255.0	234.4	227.3	225.0
20°	1078.7	995.6	817.0	635.6	442.4	292.5	237.0	215.6	207.2	205.2	204.1
22.5°	1042.2	945.5	741.9	520.6	317.8	225.8	203.6	194.7	193.4	195.3	195.3
25°	1011.2	900.7	660.9	400.4	233.3	190.0	182.2	180.1	185.1	191.9	193.2
27.5°	988.0	863.9	574.6	295.6	185.9	165.3	165.0	168.4	180.7	193.7	196.3
30°	972.1	829.0	482.3	213.2	155.9	145.5	149.6	156.9	174.9	193.4	198.4
32.5°	964.0	803.2	386.1	165.0	133.5	127.7	134.8	143.6	161.4	178.6	185.1
35°	970.3	784.2	295.4	137.6	117.8	113.4	120.7	129.3	139.7	147.0	152.0
37.5°	993.8	776.6	222.9	123.3	107.1	103.0	108.7	113.7	117.8	119.9	122.3
40°	1044.3	784.7	178.6	116.0	101.1	95.9	98.3	100.1	102.7	104.8	105.8
42.5°	1118.9	808.9	160.1	113.1	98.0	90.5	89.9	90.7	94.1	98.0	98.8
45°	1223.2	851.7	158.8	115.0	96.5	86.0	83.7	84.7	89.9	95.9	97.0
47.5°	1356.4	916.8	169.2	120.4	97.8	83.7	79.8	81.1	87.6	95.7	97.0
50°	1517.7	1007.8	186.7	128.5	103.5	84.2	78.5	79.2	86.0	94.9	96.2
52.5°	1708.3	1136.9	205.7	136.3	109.5	87.6	79.5	77.7	83.9	91.8	93.3
55°	1920.2	1302.4	225.2	143.4	112.6	91.8	81.6	75.6	80.0	86.5	87.9
57.5°	2180.4	1533.9	259.1	150.2	114.7	94.6	83.7	73.5	75.1	79.8	80.8
60°	2532.6	1861.3	318.8	161.4	119.4	95.7	83.4	71.7	70.1	72.7	73.3
62.5°	2954.7	2216.9	368.6	175.4	127.2	96.5	81.9	70.4	66.0	66.0	66.5
65°	3205.2	2312.1	341.0	187.2	133.7	95.7	80.0	69.1	62.8	60.0	60.2
67.5°	2992.7	2033.4	292.2	189.5	133.5	92.0	77.2	66.7	59.7	55.3	55.0
69°	2726.6	1754.4	270.3	183.3	127.2	87.3	73.5	64.1	57.4	52.7	52.4
70°	2512.0	1584.2	256.0	176.5	120.4	83.9	70.6	61.8	55.5	51.1	50.6
72.5°	1826.4	1038.1	218.7	151.7	99.3	70.4	61.0	54.2	49.5	46.9	46.4
75°	912.7	495.1	177.5	123.0	76.1	56.3	50.1	45.4	43.0	42.5	42.2
77.5°	299.8	226.8	127.0	91.8	56.6	44.1	40.4	37.0	36.5	38.1	37.5
80°	164.8	131.9	80.6	60.7	38.6	32.3	31.8	30.0	30.8	33.4	32.8
82.5°	83.9	68.6	49.8	36.5	26.1	23.2	25.3	24.2	25.3	27.6	27.4
85°	41.4	37.5	31.5	22.2	17.2	14.9	18.0	18.8	19.3	21.1	21.1
87.5°	24.0	22.2	16.7	10.4	8.6	7.8	10.4	10.2	12.0	13.0	12.8
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)