

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: P651174

Luminaire Tested: **GALN-SA1D-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3842.5 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

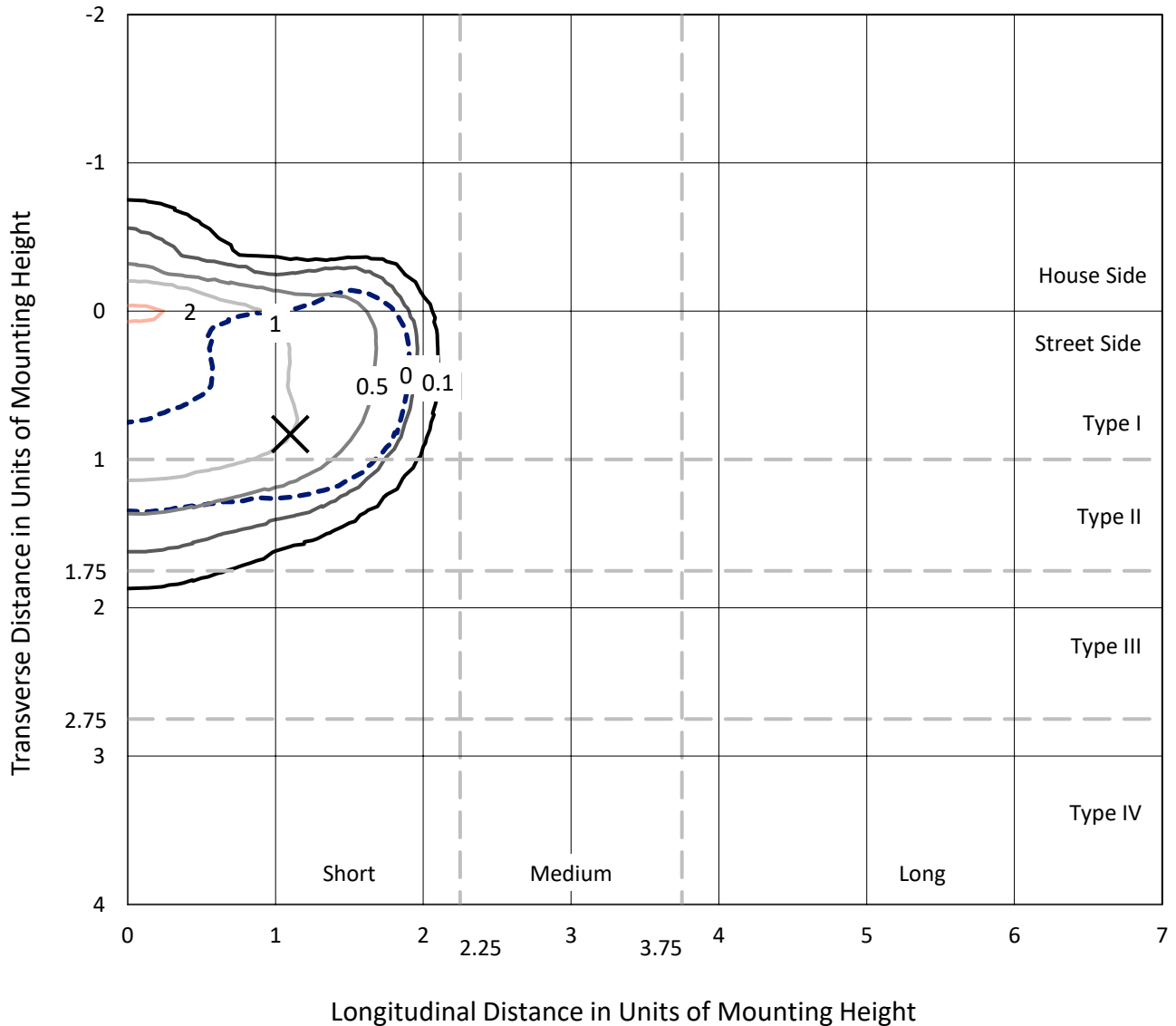
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

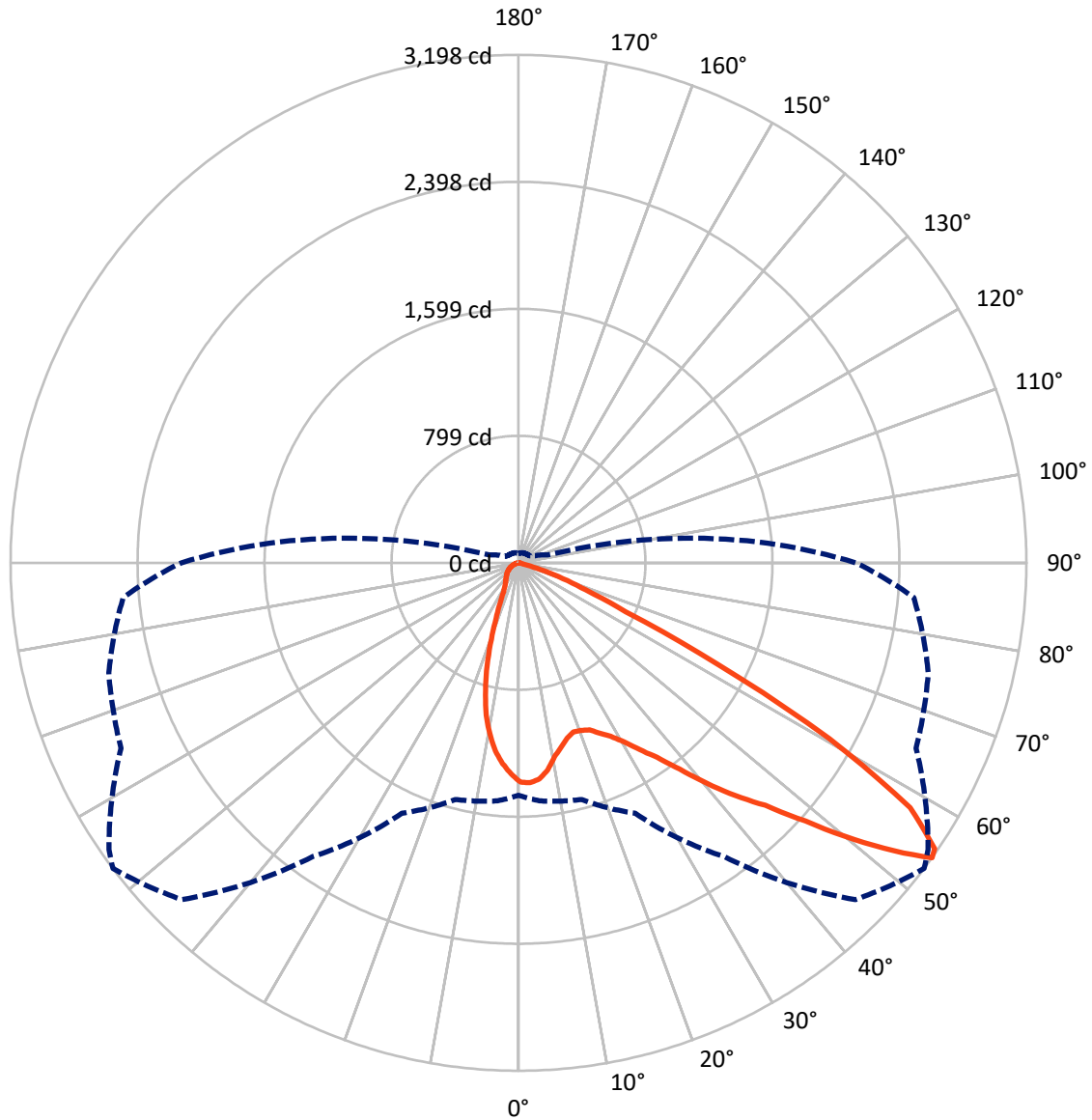
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	635.8	0.0	635.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3206.8	0.0	3206.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	3842.5	0.0	3842.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	3.1
10°-20°	271.5	7.1
20°-30°	385.8	10.0
30°-40°	595.5	15.5
40°-50°	933.6	24.3
50°-60°	1084.5	28.2
60°-70°	409.8	10.7
70°-80°	39.0	1.0
80°-90°	4.4	0.1
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°	3842.5	100.0
0°-180°	3842.5	100.0

Coefficient of Utilization

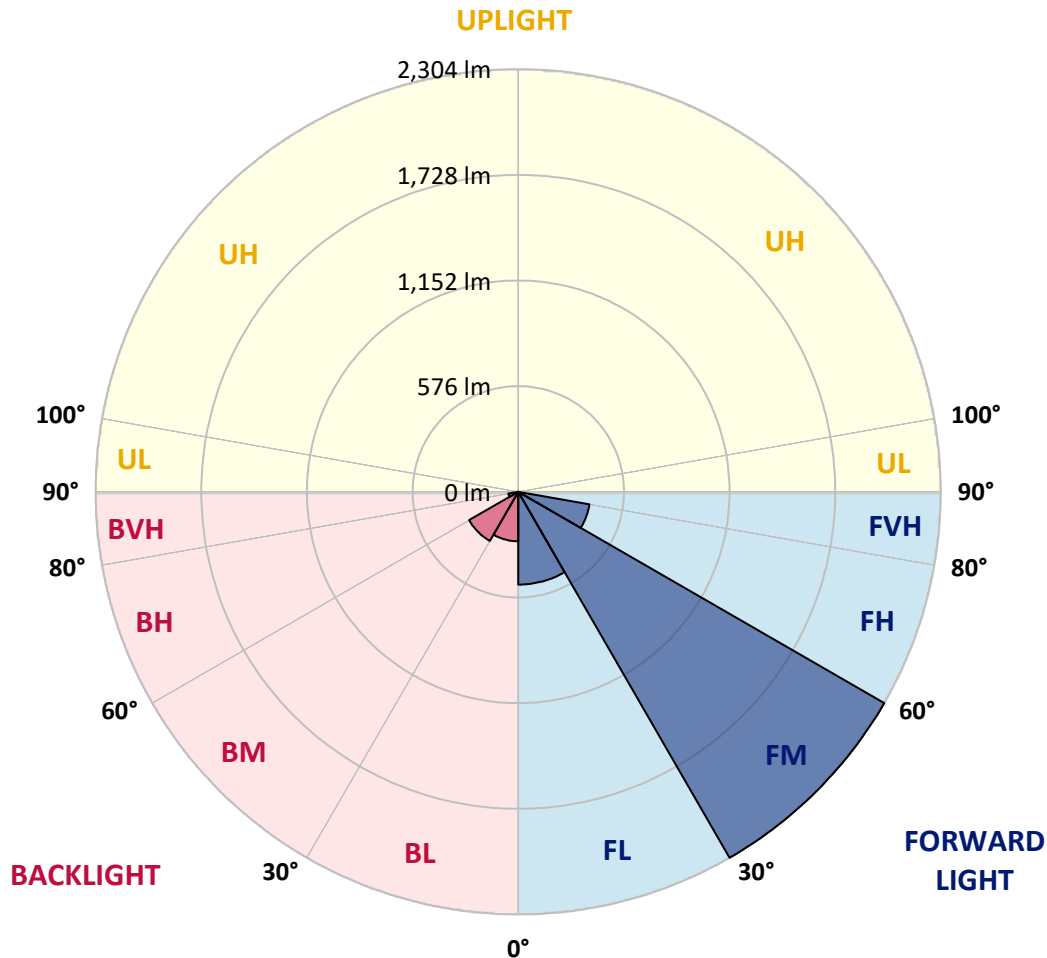


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	506.0	13.2			
FM (30°-60°)	2304.2	60.0			
FH (60°-80°)	394.3	10.3			G0/660
FVH (80°-90°)	2.3	0.1			G0/10
BL (0°-30°)	269.8	7.0	B1/500		
BM (30°-60°)	309.4	8.1	B1/1000		
BH (60°-80°)	54.5	1.4	B0/110		G0/110
BVH (80°-90°)	2.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2
2.5°	1373.0	1360.8	1373.0	1374.4	1383.0	1390.9	1385.9	1397.3	1390.9	1383.8	1381.6
5°	1262.1	1278.5	1279.2	1305.0	1299.3	1346.5	1367.3	1361.6	1396.6	1394.5	1389.5
7.5°	1162.5	1156.1	1164.7	1194.7	1232.7	1287.2	1317.2	1316.5	1366.5	1402.4	1398.8
10°	1070.2	1069.5	1087.4	1111.0	1143.3	1200.5	1242.0	1262.8	1340.8	1395.2	1403.0
12.5°	1007.9	1005.1	1024.4	1043.7	1094.6	1139.0	1191.9	1202.0	1291.4	1370.2	1383.0
15°	967.2	973.5	975.0	1012.2	1044.4	1103.1	1144.7	1165.4	1268.5	1350.1	1399.5
17.5°	960.0	968.6	969.3	1000.0	1034.4	1083.8	1120.3	1148.2	1249.1	1360.1	1400.2
20°	974.3	969.3	973.5	992.9	1026.5	1073.8	1126.8	1136.0	1242.7	1365.1	1408.1
22.5°	1015.1	1013.7	1002.9	1018.7	1042.3	1091.7	1141.8	1156.1	1261.3	1390.9	1414.6
25°	1060.2	1068.1	1058.1	1055.9	1072.4	1121.1	1187.6	1206.2	1323.6	1437.4	1434.6
27.5°	1144.7	1136.8	1136.8	1126.8	1122.5	1146.1	1237.0	1267.8	1393.0	1497.6	1457.5
30°	1225.5	1234.2	1227.7	1231.3	1202.6	1200.5	1307.2	1345.1	1516.2	1589.2	1506.1
32.5°	1353.7	1342.2	1353.0	1343.7	1305.7	1267.1	1402.4	1441.7	1665.1	1694.4	1579.1
35°	1460.3	1455.4	1501.2	1499.8	1438.2	1400.2	1503.3	1562.0	1768.9	1820.4	1665.1
37.5°	1612.1	1602.8	1655.1	1680.1	1625.0	1568.5	1647.9	1715.9	1865.5	1921.3	1753.1
40°	1768.2	1791.8	1862.0	1903.4	1844.7	1769.6	1824.7	1845.5	1929.9	1987.2	1813.3
42.5°	1965.8	2000.1	2071.7	2107.5	2102.5	2020.8	2004.4	2003.7	1976.5	1968.6	1857.7
45°	2155.5	2142.5	2252.8	2330.8	2393.8	2370.2	2177.6	2156.2	2050.2	1996.5	1869.1
47.5°	2238.5	2234.2	2309.4	2448.2	2663.0	2692.4	2429.6	2346.6	2174.7	2113.9	1931.4
50°	2131.1	2153.3	2227.7	2381.6	2711.0	2935.0	2738.9	2627.2	2320.1	2257.1	2078.9
52.5°	1780.3	1795.4	1866.3	2061.6	2547.7	3078.1	3035.3	2970.8	2587.1	2482.6	2335.9
54°	1463.9	1504.0	1542.6	1738.9	2257.1	2998.8	3197.7	3148.4	2761.1	2670.2	2497.6
55°	1275.0	1298.6	1326.5	1521.9	2055.9	2864.1	3179.1	3183.4	2877.7	2728.9	2606.4
57.5°	931.3	947.8	919.1	1005.8	1411.7	2325.8	2907.8	3023.8	3035.3	2816.9	2673.0
60°	711.6	718.7	686.5	700.1	877.7	1596.4	2249.3	2388.8	2738.1	2461.9	2264.2
62.5°	551.9	553.4	552.6	576.3	604.9	939.2	1406.7	1530.5	1887.7	1748.1	1537.7
65°	406.6	400.1	411.6	483.2	516.1	590.6	740.9	831.1	1025.9	866.1	619.2
67.5°	263.4	265.6	277.0	359.4	442.4	453.1	456.0	448.8	449.6	247.7	155.3
70°	158.2	161.8	158.2	203.3	316.4	325.0	297.0	289.9	226.2	58.7	57.9
72.5°	93.8	88.7	79.5	87.3	131.7	157.5	141.7	141.0	88.7	34.4	34.4
75°	39.4	35.8	29.4	26.5	35.1	33.6	33.6	30.1	23.6	22.9	21.4
77.5°	7.9	7.9	5.7	6.5	8.6	10.0	12.2	12.2	14.3	14.3	13.6
80°	0.0	0.8	2.2	4.3	6.5	9.3	10.8	10.8	12.2	12.2	10.0
82.5°	0.0	0.8	2.2	4.3	5.7	8.6	10.8	10.8	12.2	12.9	10.8
85°	0.0	0.8	2.2	3.6	5.7	7.1	7.1	6.5	5.0	4.3	2.9
87.5°	0.0	0.0	0.8	1.4	0.8	1.4	1.4	1.4	1.4	1.4	1.4
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°	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2
2.5°	1386.6	1385.9	1368.7	1340.8	1334.3	1310.7	1307.8	1293.5	1301.4	1275.0	1272.1
5°	1375.1	1366.5	1345.9	1327.9	1275.6	1238.5	1209.1	1173.3	1152.5	1156.1	1142.5
7.5°	1391.6	1369.4	1332.9	1270.7	1206.9	1141.8	1106.8	1033.7	1007.2	967.8	962.1
10°	1374.4	1358.0	1301.4	1198.3	1110.3	1016.5	934.2	853.3	791.7	765.2	759.5
12.5°	1373.0	1344.3	1249.9	1135.4	1007.9	873.4	753.8	652.9	592.0	557.7	549.8
15°	1350.8	1316.5	1191.9	1038.0	861.9	694.4	564.1	466.8	420.2	400.1	405.9
17.5°	1353.0	1301.4	1133.9	934.9	718.0	509.7	385.1	335.1	322.9	327.8	327.8
20°	1350.8	1267.8	1063.8	816.1	549.8	353.6	282.7	264.8	272.7	288.5	284.9
22.5°	1339.4	1252.0	999.4	690.8	404.4	262.0	226.9	227.7	239.9	259.1	263.4
25°	1348.0	1216.9	917.7	564.1	294.9	209.0	196.9	201.8	214.8	229.1	231.9
27.5°	1341.5	1191.9	832.5	438.1	215.5	179.7	179.0	184.7	190.4	201.2	201.2
30°	1348.7	1169.0	748.8	325.7	177.5	164.7	161.8	166.1	171.8	173.9	173.2
32.5°	1375.1	1151.8	652.1	243.4	156.8	150.4	150.4	150.4	149.6	152.5	153.2
35°	1433.1	1154.7	566.9	188.3	143.1	138.2	136.0	133.1	131.7	133.1	133.9
37.5°	1496.1	1153.3	478.9	160.4	133.1	128.8	123.9	119.5	118.8	120.3	118.1
40°	1524.1	1166.9	397.3	143.9	123.9	118.8	110.9	107.4	108.1	109.5	108.1
42.5°	1562.0	1171.2	344.3	131.0	115.2	107.4	102.3	98.1	97.4	99.5	98.8
45°	1561.3	1146.8	288.5	123.9	107.4	98.8	92.3	88.7	88.7	90.2	90.9
47.5°	1607.1	1143.3	247.7	117.4	101.7	93.1	85.2	82.3	81.6	81.6	80.1
50°	1713.8	1193.3	216.2	110.3	94.5	86.6	80.1	76.6	73.8	72.3	71.6
52.5°	1922.1	1349.4	191.8	101.7	86.6	80.1	74.4	71.6	68.0	64.4	63.7
54°	2123.9	1510.4	190.4	94.5	80.1	75.9	70.9	69.5	65.2	60.1	58.7
55°	2214.9	1604.2	195.4	88.7	75.9	73.0	68.7	67.3	63.0	57.3	56.5
57.5°	2290.0	1640.7	192.6	73.8	68.7	68.0	64.4	62.3	57.3	49.4	47.9
60°	1843.3	1240.6	138.2	65.2	63.0	61.6	58.7	57.3	50.8	42.2	41.5
62.5°	1164.7	713.7	88.1	57.3	55.1	53.0	49.4	47.9	42.2	33.6	31.5
65°	496.1	295.6	59.4	50.8	47.3	43.6	40.8	38.7	33.6	25.1	24.3
67.5°	128.8	105.2	49.4	44.4	39.4	34.4	32.2	28.6	22.9	17.2	16.5
70°	57.9	53.0	41.5	37.3	31.5	26.5	23.6	20.0	15.1	11.4	10.8
72.5°	34.4	33.6	31.5	27.9	23.6	20.0	17.2	13.6	10.0	6.5	6.5
75°	21.4	20.8	21.4	19.3	16.5	15.1	12.9	9.3	5.7	2.9	2.9
77.5°	12.9	12.9	12.9	12.2	11.4	11.4	9.3	5.7	2.9	0.8	0.8
80°	10.0	10.0	10.8	10.0	10.0	10.0	7.9	4.3	1.4	0.0	0.0
82.5°	10.0	10.8	12.2	11.4	10.0	8.6	7.1	4.3	1.4	0.0	0.0
85°	2.9	2.2	3.6	5.0	7.1	6.5	5.0	3.6	1.4	0.0	0.0
87.5°	1.4	1.4	1.4	1.4	0.8	0.8	0.8	0.8	0.8	0.0	0.0
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)