

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: P651194

Luminaire Tested: **GALN-SA1D-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
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-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5522 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

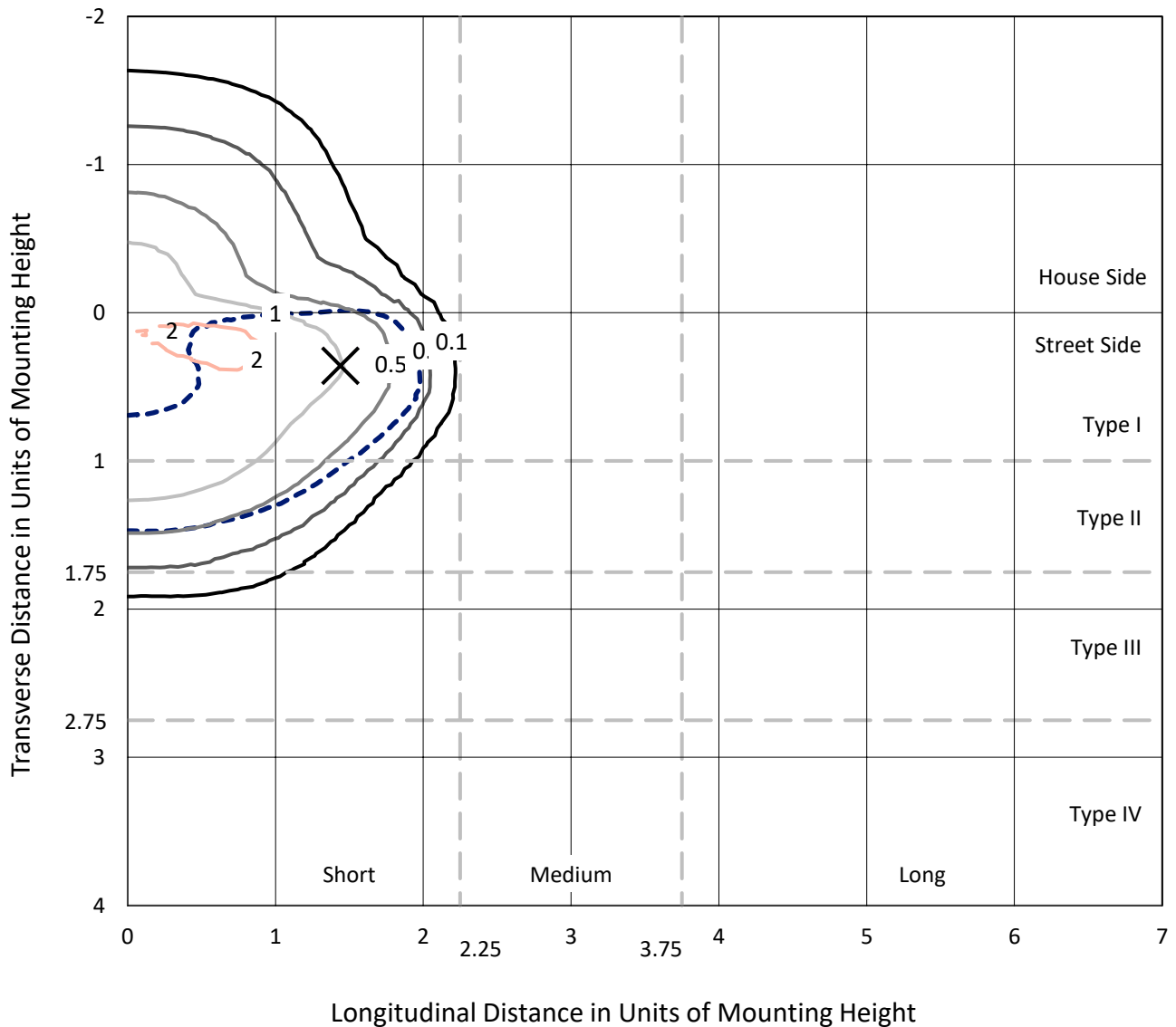
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

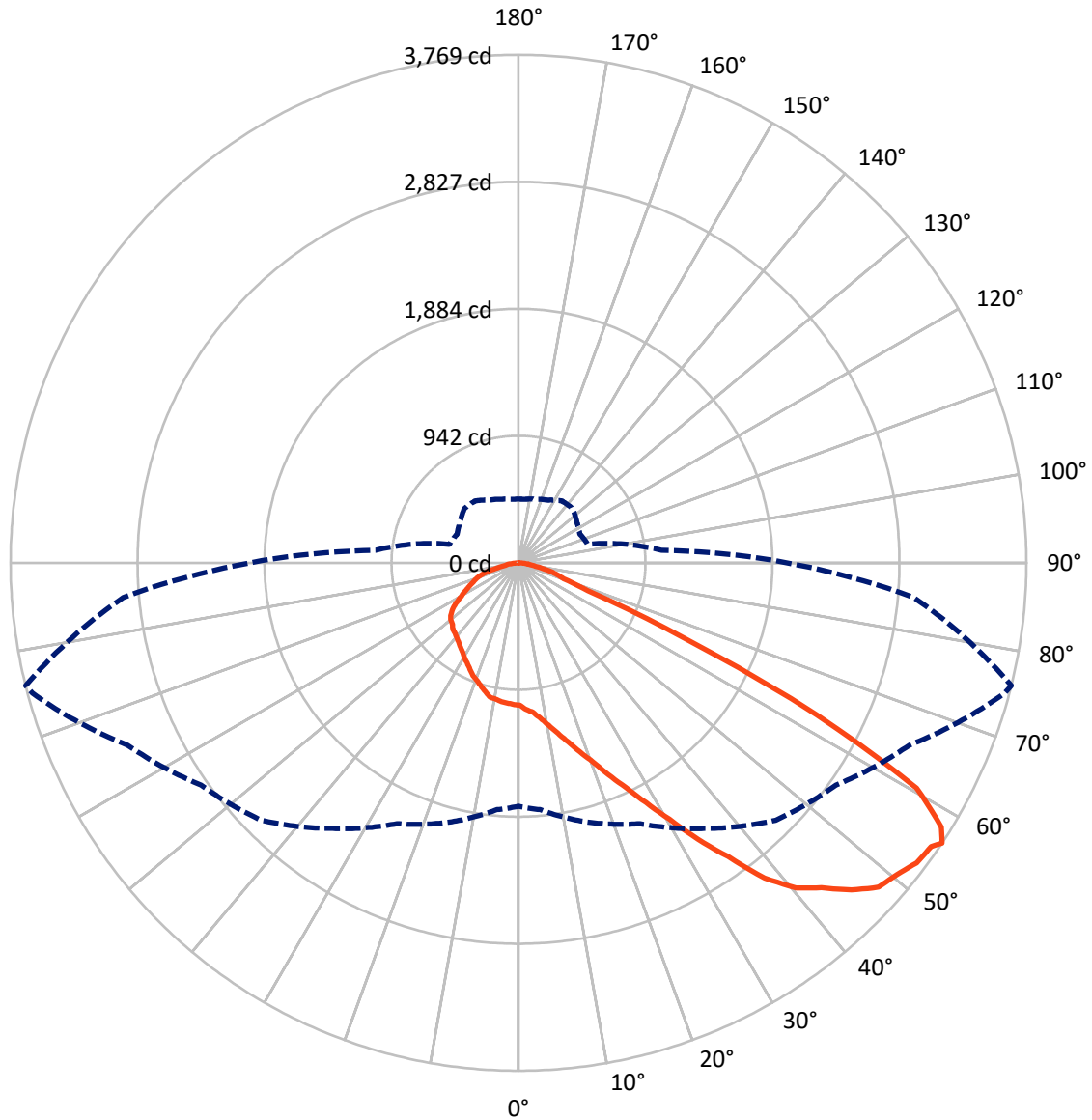
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1484.7	0.0	1484.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	4037.3	0.0	4037.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	5522.0	0.0	5522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	1.9
10°-20°	329.1	6.0
20°-30°	575.6	10.4
30°-40°	901.3	16.3
40°-50°	1311.1	23.7
50°-60°	1441.0	26.1
60°-70°	643.2	11.6
70°-80°	185.8	3.4
80°-90°	30.1	0.5
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°	5522.0	100.0
0°-180°	5522.0	100.0

Coefficient of Utilization

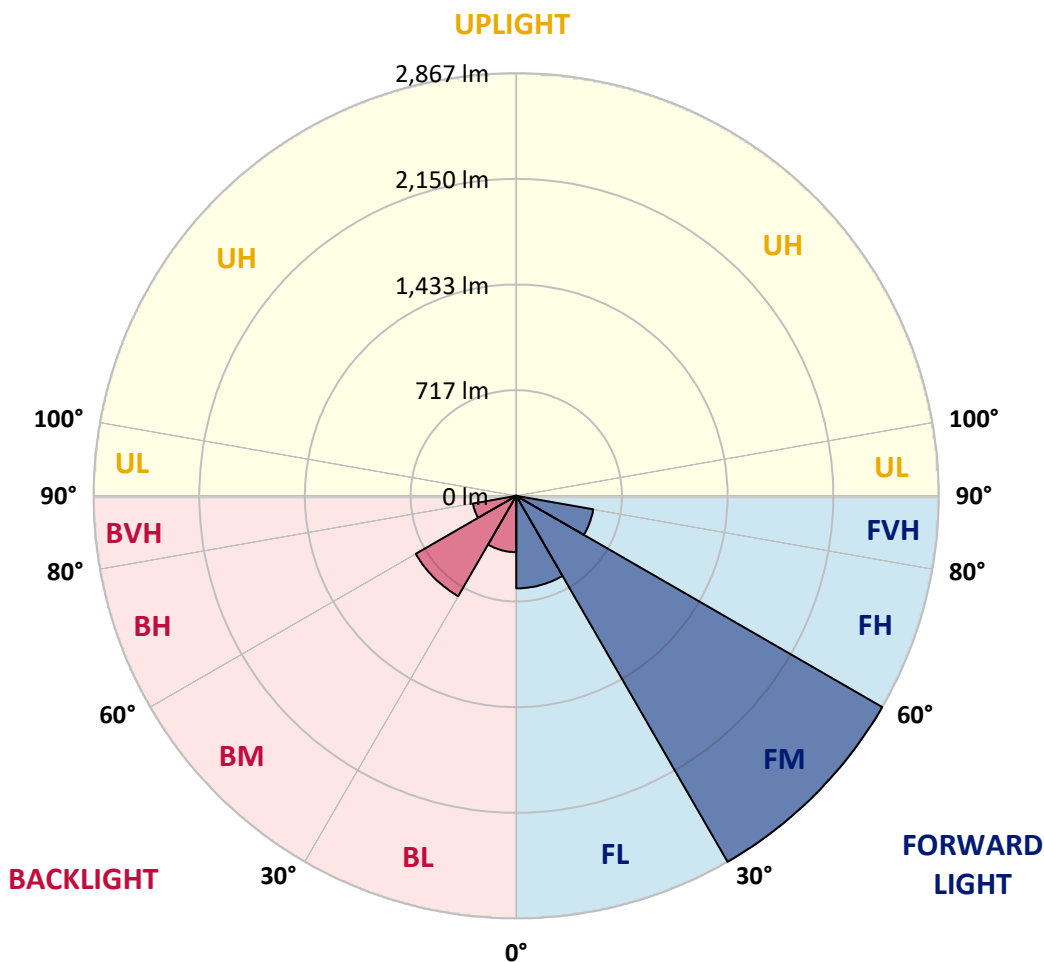


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.5	11.4			
FM (30°-60°)	2866.6	51.9			
FH (60°-80°)	530.2	9.6			G0/660
FVH (80°-90°)	13.0	0.2			G1/100
BL (0°-30°)	382.0	6.9	B1/500		
BM (30°-60°)	786.8	14.2	B1/1000		
BH (60°-80°)	298.7	5.4	B1/500		G1/500
BVH (80°-90°)	17.2	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5
2.5°	1163.9	1145.4	1143.9	1138.9	1141.7	1128.9	1115.3	1097.3	1078.8	1090.2	1063.0
5°	1245.5	1220.5	1230.6	1213.3	1215.5	1198.3	1170.4	1149.6	1126.7	1113.1	1093.8
7.5°	1274.2	1276.3	1283.5	1280.6	1266.3	1266.3	1247.7	1211.2	1171.1	1163.2	1131.0
10°	1312.8	1313.6	1305.7	1307.8	1327.9	1318.5	1302.1	1286.3	1234.8	1225.5	1168.2
12.5°	1326.4	1313.6	1326.4	1337.9	1361.5	1374.4	1370.8	1359.4	1304.2	1297.8	1214.1
15°	1328.6	1320.7	1331.5	1357.2	1378.0	1432.4	1459.6	1451.7	1378.7	1379.4	1265.6
17.5°	1318.5	1329.3	1333.6	1355.8	1403.7	1454.6	1533.3	1544.1	1483.9	1474.6	1330.7
20°	1332.1	1324.3	1330.0	1350.1	1413.8	1493.2	1596.3	1667.2	1582.7	1576.3	1398.0
22.5°	1384.5	1373.7	1372.3	1385.1	1431.0	1513.3	1662.9	1790.3	1702.9	1706.6	1481.8
25°	1425.2	1431.0	1425.9	1425.2	1453.8	1543.3	1751.0	1937.1	1866.2	1845.4	1580.6
27.5°	1495.4	1509.0	1498.9	1512.5	1506.1	1588.4	1814.0	2099.6	2042.3	2014.4	1670.1
30°	1592.7	1599.9	1590.6	1590.6	1571.2	1651.4	1871.1	2269.2	2245.6	2207.6	1775.3
32.5°	1720.9	1731.6	1712.9	1702.3	1699.4	1745.2	1974.2	2436.7	2476.7	2444.5	1914.9
35°	1890.5	1884.1	1861.9	1851.9	1813.2	1889.1	2127.5	2629.2	2734.5	2677.2	2083.7
37.5°	2040.1	2030.1	2028.7	1972.8	1982.2	2044.4	2257.7	2775.3	2984.3	2967.8	2262.0
40°	2179.7	2189.0	2204.0	2172.6	2158.3	2227.0	2409.5	2886.9	3178.3	3171.8	2399.5
42.5°	2329.3	2320.7	2347.2	2320.7	2299.2	2396.6	2574.1	2964.3	3348.7	3295.7	2543.4
45°	2546.2	2519.0	2528.3	2530.5	2514.7	2550.5	2642.2	3020.1	3468.2	3462.5	2648.6
47.5°	2727.3	2728.0	2712.3	2700.1	2652.2	2687.9	2718.0	3055.2	3605.6	3596.4	2689.3
50°	2794.6	2785.3	2831.1	2857.6	2860.5	2787.4	2777.4	3074.5	3677.9	3637.2	2730.1
52.5°	2552.7	2561.3	2633.5	2791.0	2881.9	2889.8	2846.9	3114.6	3707.3	3698.7	2763.1
55°	2054.4	2095.9	2214.8	2396.6	2612.1	2849.0	2922.1	3156.1	3723.0	3715.9	2909.1
56°	1806.0	1838.3	1992.8	2135.3	2405.9	2700.8	2874.8	3200.5	3735.2	3768.9	2943.5
57.5°	1453.8	1491.1	1602.0	1763.8	2083.1	2418.8	2744.5	3146.1	3688.0	3700.8	2968.6
60°	909.1	912.7	1045.9	1152.5	1377.2	1705.1	2094.5	2737.4	3413.1	3394.4	2666.5
62.5°	596.3	597.0	718.0	805.3	907.7	982.8	1232.7	1815.4	2518.3	2485.3	1898.4
65°	418.7	428.1	521.8	638.5	680.0	640.7	632.8	957.1	1406.6	1359.4	1020.0
67.5°	306.4	307.0	390.1	515.4	575.5	487.4	395.9	467.4	556.9	555.5	472.5
70°	202.6	211.2	274.8	385.1	453.8	391.6	323.5	334.3	354.3	354.3	351.5
72.5°	118.1	126.0	168.2	244.1	254.8	244.8	256.3	286.4	299.2	298.5	294.9
75°	67.3	70.9	80.1	101.7	126.7	149.6	188.3	216.9	229.8	237.7	228.3
77.5°	39.4	41.5	47.3	57.9	65.9	80.9	102.3	122.4	139.6	137.4	138.8
80°	20.8	20.8	26.5	34.4	45.8	57.3	68.0	79.5	88.7	90.9	93.1
82.5°	12.2	12.9	17.2	25.1	33.0	40.8	52.2	60.1	68.7	69.5	70.9
85°	6.5	7.1	10.8	16.5	22.2	25.1	25.7	24.3	26.5	25.1	28.6
87.5°	2.2	2.2	3.6	2.9	2.9	3.6	4.3	4.3	5.7	5.7	5.7
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°	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5
2.5°	1062.3	1062.3	1050.2	1027.2	1023.7	1014.3	1005.8	1005.0	998.6	992.9	990.0
5°	1082.4	1060.2	1042.3	1021.5	997.2	985.7	972.8	958.5	952.8	958.5	957.8
7.5°	1105.2	1086.7	1032.9	994.3	966.4	955.0	940.6	925.6	927.0	927.0	916.9
10°	1127.4	1102.4	1016.5	967.1	926.3	917.7	909.8	915.5	922.7	924.2	917.7
12.5°	1164.6	1108.1	1008.6	939.9	914.1	895.5	900.5	916.3	931.3	927.0	932.0
15°	1192.5	1113.1	972.8	912.0	879.8	888.3	906.3	916.9	942.0	939.1	944.2
17.5°	1219.8	1116.0	937.7	874.7	861.2	884.7	898.4	929.1	937.0	954.2	960.7
20°	1275.6	1121.7	902.0	851.8	847.6	874.7	898.4	912.7	929.9	944.9	944.9
22.5°	1304.2	1118.9	878.3	821.7	835.4	852.5	874.1	898.4	898.4	912.7	913.4
25°	1340.0	1107.4	841.1	807.4	817.5	833.9	858.2	849.7	859.0	859.0	870.4
27.5°	1380.8	1083.0	808.9	781.7	801.7	819.6	823.2	817.5	806.8	805.3	801.1
30°	1413.8	1053.0	785.2	773.1	789.5	799.6	788.1	776.0	757.3	755.9	745.9
32.5°	1458.9	1015.8	755.9	751.6	770.3	770.9	767.3	748.7	721.6	710.1	698.6
35°	1534.7	994.3	733.7	740.2	745.9	743.8	737.3	717.3	690.0	685.1	680.8
37.5°	1590.6	978.5	710.8	718.7	723.7	726.5	707.3	685.1	685.8	675.7	672.9
40°	1653.6	968.5	692.2	695.8	696.5	705.8	682.2	671.5	676.5	670.0	674.3
42.5°	1734.5	971.4	672.9	670.0	683.6	680.0	668.6	654.3	657.2	637.8	640.7
45°	1777.4	990.7	661.4	648.6	663.5	662.9	647.8	634.2	617.0	579.8	581.2
47.5°	1806.0	995.7	634.2	625.6	641.3	650.7	633.5	602.0	577.7	551.2	544.7
50°	1835.4	1005.0	621.3	603.4	609.9	632.1	610.6	580.5	556.9	533.3	536.9
52.5°	1861.1	1022.9	596.3	569.8	581.2	605.6	594.2	557.7	531.8	512.5	506.8
55°	1975.7	1063.0	554.1	519.7	546.9	577.7	571.2	526.9	499.0	488.9	487.4
56°	1993.6	1064.5	531.8	502.5	527.6	568.3	560.5	513.3	488.2	472.5	473.1
57.5°	1996.4	1047.3	500.4	486.8	508.2	554.8	544.7	502.5	468.2	453.8	449.5
60°	1756.7	817.5	461.0	452.4	477.4	513.3	509.6	473.1	434.5	418.1	425.9
62.5°	1197.6	599.1	430.3	428.7	441.7	476.8	467.4	434.5	402.3	391.6	386.5
65°	697.2	454.6	400.1	394.4	405.2	423.8	430.3	395.9	362.2	355.1	352.9
67.5°	411.6	375.8	361.5	352.2	348.6	360.0	365.1	345.1	311.4	301.3	310.0
70°	344.3	334.3	335.0	319.2	310.7	302.8	298.5	280.6	252.7	239.8	236.2
72.5°	297.0	292.8	289.9	275.6	267.7	249.9	231.2	213.3	192.6	181.8	182.5
75°	226.9	225.5	226.9	219.8	206.1	191.8	174.7	151.7	136.0	122.4	125.3
77.5°	135.3	139.6	141.7	138.8	133.1	120.3	109.5	94.5	79.5	68.7	67.3
80°	93.1	96.6	100.2	96.6	90.9	81.6	70.1	58.7	47.9	42.2	40.8
82.5°	70.9	74.4	76.6	73.0	65.9	55.8	47.9	40.1	31.5	25.7	24.3
85°	25.7	29.4	28.6	34.4	37.3	35.8	30.8	23.6	17.9	12.9	12.2
87.5°	7.1	6.5	7.1	7.1	7.1	6.5	5.7	5.7	5.7	3.6	2.9
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)