

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: P527278

Luminaire Tested: **GALN-SA2B-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527278
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-SA2B-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8941 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

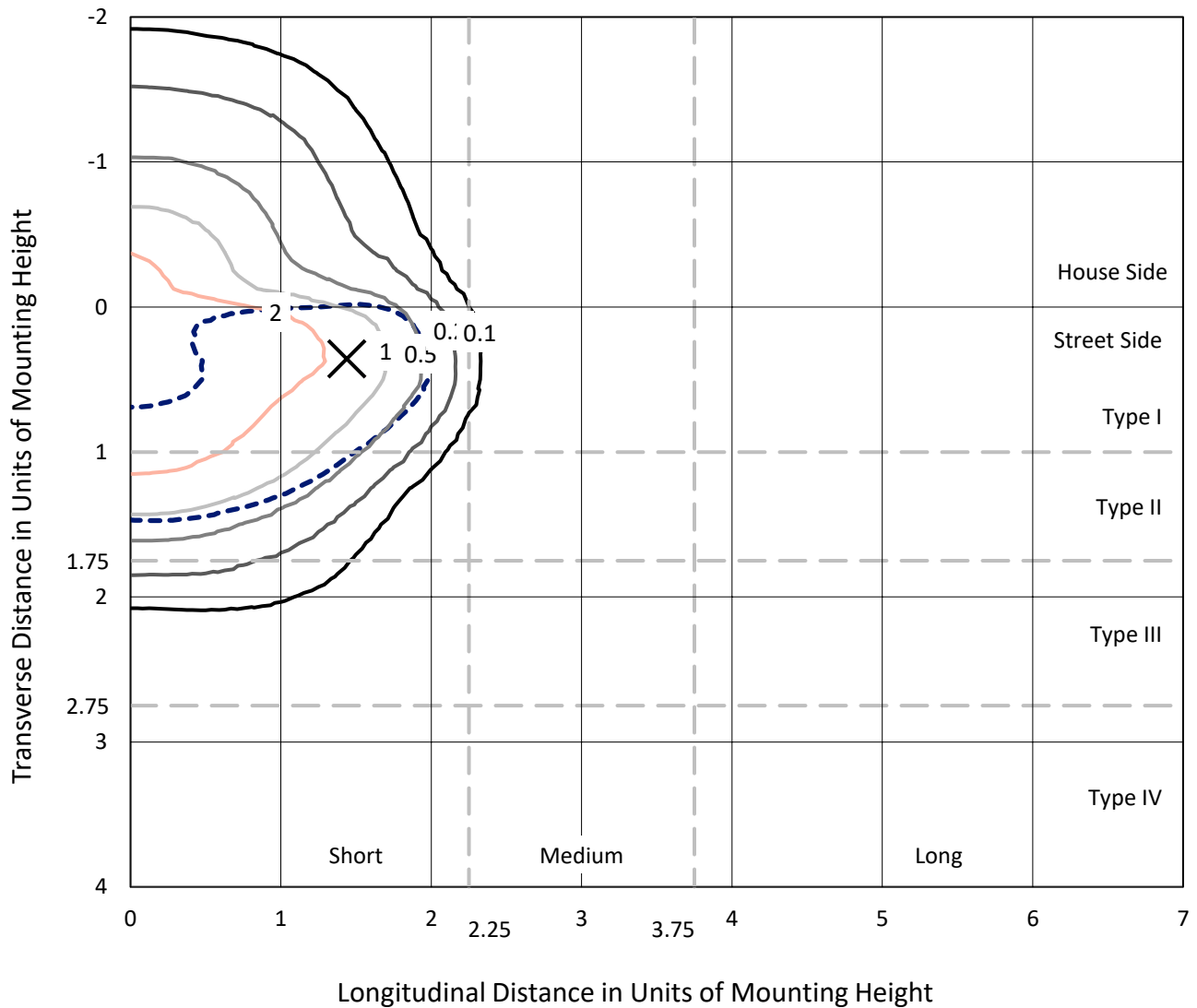
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

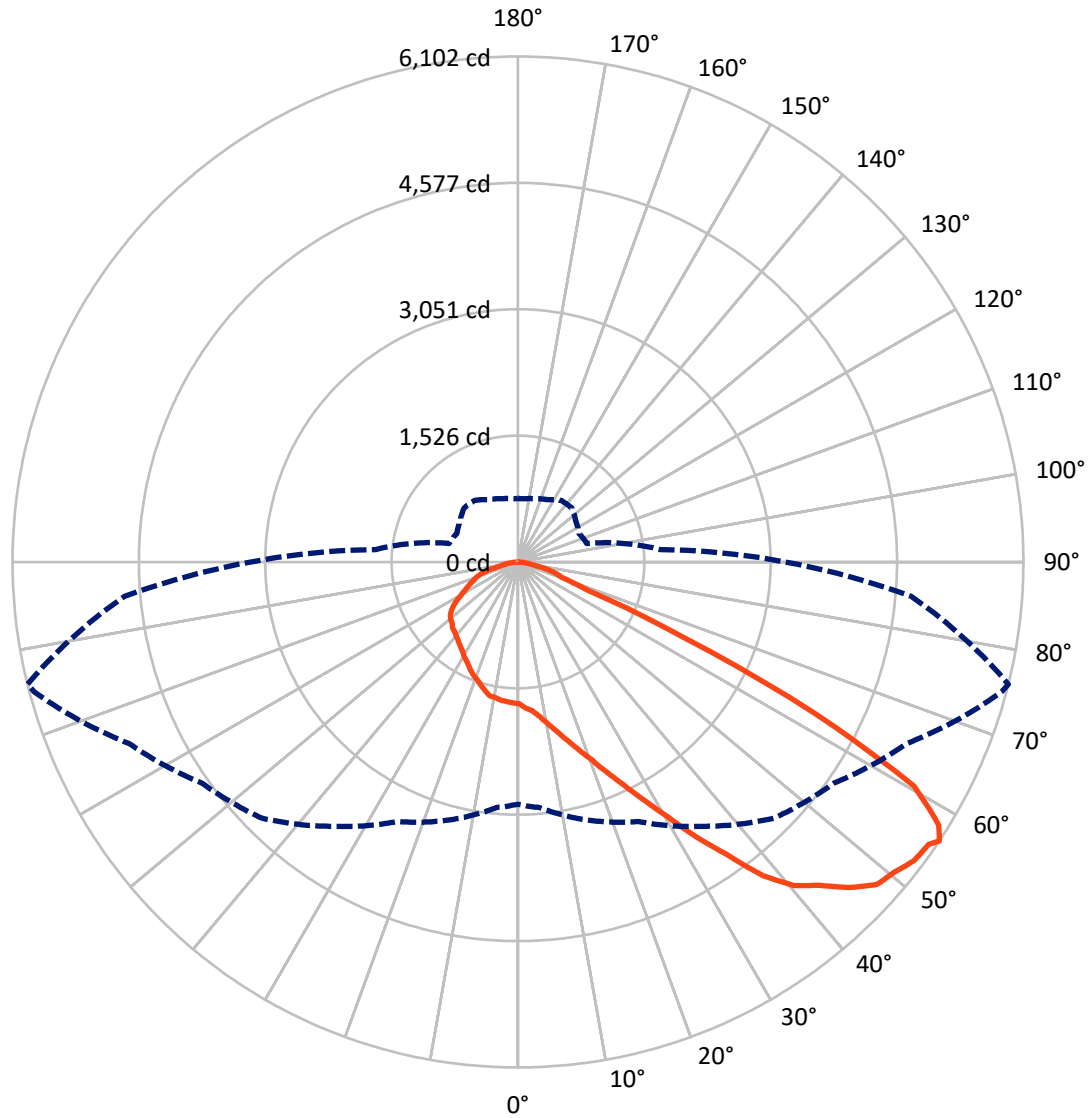
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	2404.0	0.0	2404.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	6537.0	0.0	6537.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	8941.0	0.0	8941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.7	1.9
10°-20°	532.9	6.0
20°-30°	932.0	10.4
30°-40°	1459.3	16.3
40°-50°	2122.9	23.7
50°-60°	2333.2	26.1
60°-70°	1041.4	11.6
70°-80°	300.8	3.4
80°-90°	48.8	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°	8941.0	100.0
0°-180°	8941.0	100.0

Coefficient of Utilization



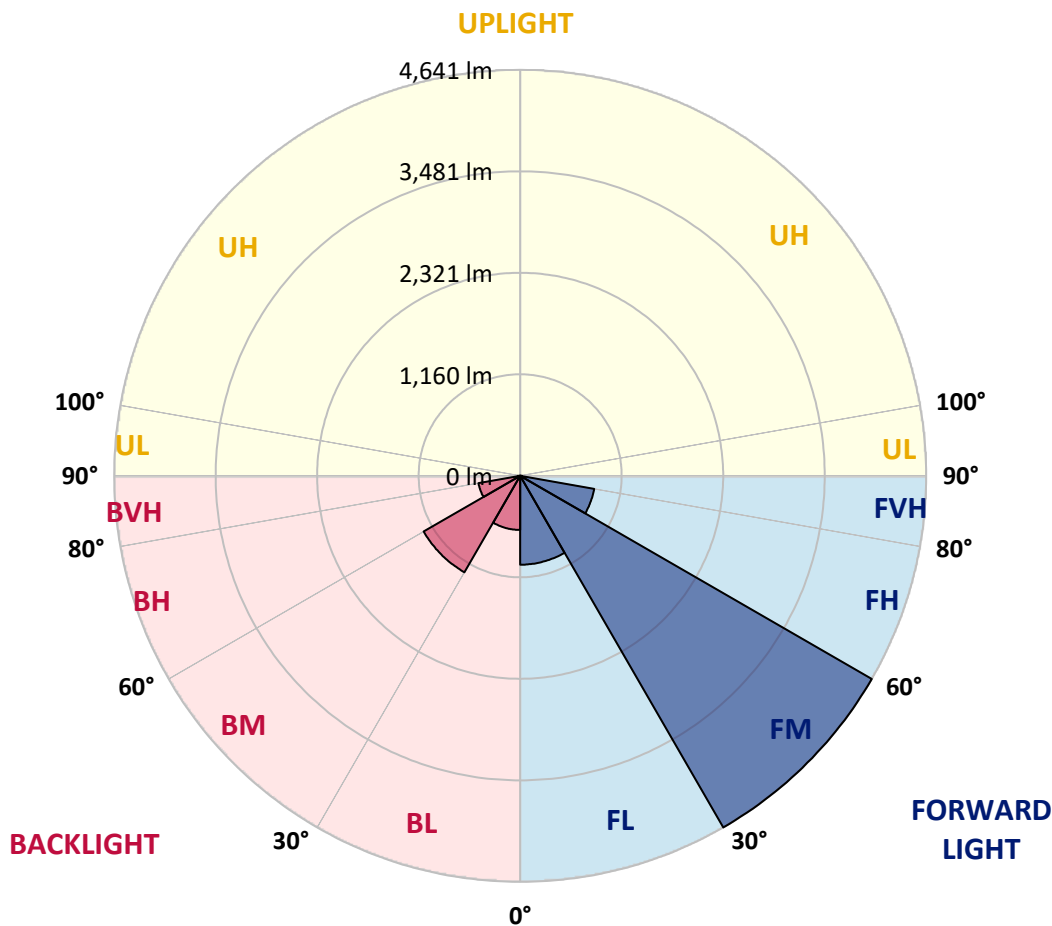
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1016.0	11.4			
FM (30°-60°)	4641.4	51.9			
FH (60°-80°)	858.5	9.6			G1/1800
FVH (80°-90°)	21.0	0.2			G1/100
BL (0°-30°)	618.6	6.9	B2/1000		
BM (30°-60°)	1273.9	14.2	B2/2500		
BH (60°-80°)	483.7	5.4	B1/500		G1/500
BVH (80°-90°)	27.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1710.7	1710.7	1710.7	1710.7	1710.7	1710.7	1710.7	1710.7	1710.7	1710.7	1710.7
2.5°	1884.6	1854.5	1852.1	1844.0	1848.7	1827.8	1805.8	1776.8	1746.7	1765.2	1721.2
5°	2016.7	1976.2	1992.4	1964.6	1968.1	1940.2	1895.0	1861.4	1824.3	1802.3	1771.0
7.5°	2063.1	2066.6	2078.2	2073.5	2050.3	2050.3	2020.2	1961.1	1896.2	1883.4	1831.3
10°	2125.7	2126.8	2114.1	2117.6	2150.0	2135.0	2108.3	2082.8	1999.3	1984.3	1891.6
12.5°	2147.7	2126.8	2147.7	2166.2	2204.5	2225.4	2219.6	2201.0	2111.8	2101.3	1965.7
15°	2151.2	2138.4	2155.8	2197.5	2231.2	2319.2	2363.3	2350.5	2232.3	2233.5	2049.2
17.5°	2135.0	2152.3	2159.3	2195.2	2272.9	2355.2	2482.7	2500.1	2402.7	2387.6	2154.7
20°	2157.0	2144.2	2153.5	2186.0	2289.1	2417.8	2584.7	2699.4	2562.6	2552.2	2263.6
22.5°	2241.6	2224.2	2221.9	2242.7	2316.9	2450.2	2692.5	2898.8	2757.4	2763.2	2399.2
25°	2307.7	2316.9	2308.8	2307.7	2354.0	2498.9	2835.0	3136.4	3021.6	2988.0	2559.2
27.5°	2421.2	2443.3	2427.0	2449.1	2438.6	2571.9	2937.0	3399.5	3306.7	3261.5	2704.0
30°	2578.9	2590.5	2575.4	2575.4	2544.1	2673.9	3029.7	3674.2	3635.9	3574.5	2874.4
32.5°	2786.3	2803.7	2773.6	2756.2	2751.6	2825.7	3196.6	3945.4	4010.3	3958.1	3100.4
35°	3061.0	3050.6	3014.7	2998.4	2935.9	3058.7	3444.7	4257.2	4427.5	4334.8	3374.0
37.5°	3303.3	3287.0	3284.7	3194.3	3209.4	3310.2	3655.6	4493.6	4832.0	4805.4	3662.6
40°	3529.3	3544.3	3568.7	3517.7	3494.5	3605.8	3901.3	4674.4	5146.1	5135.7	3885.1
42.5°	3771.5	3757.6	3800.5	3757.6	3722.8	3880.5	4167.9	4799.6	5422.0	5336.2	4118.1
45°	4122.7	4078.7	4093.7	4097.2	4071.7	4129.7	4278.0	4890.0	5615.6	5606.3	4288.5
47.5°	4415.9	4417.1	4391.6	4371.9	4294.2	4352.2	4400.9	4946.8	5838.1	5823.0	4354.5
50°	4524.9	4509.8	4584.0	4626.9	4631.5	4513.3	4497.1	4978.1	5955.2	5889.1	4420.6
52.5°	4133.1	4147.1	4264.1	4519.1	4666.3	4679.1	4609.5	5043.0	6002.7	5988.8	4473.9
55°	3326.4	3393.7	3586.1	3880.5	4229.3	4613.0	4731.2	5110.2	6028.2	6016.6	4710.3
56°	2924.3	2976.4	3226.8	3457.4	3895.5	4373.1	4654.7	5182.1	6047.9	6102.4	4766.0
57.5°	2354.0	2414.3	2593.9	2855.9	3372.8	3916.4	4443.8	5094.0	5971.4	5992.2	4806.5
60°	1472.0	1477.8	1693.4	1866.1	2230.0	2760.8	3391.4	4432.2	5526.3	5496.2	4317.4
62.5°	965.5	966.6	1162.5	1303.9	1469.7	1591.4	1995.9	2939.3	4077.5	4024.2	3073.8
65°	678.0	693.1	844.9	1033.9	1101.1	1037.3	1024.6	1549.6	2277.5	2201.0	1651.6
67.5°	496.1	497.2	631.7	834.5	931.9	789.3	641.0	756.9	901.7	899.4	765.0
70°	328.0	341.9	445.1	623.6	734.8	634.0	523.9	541.3	573.7	573.7	569.1
72.5°	191.2	204.0	272.4	395.2	412.6	396.4	414.9	463.6	484.5	483.3	477.5
75°	108.9	114.7	129.8	164.6	205.2	242.2	304.8	351.2	372.1	384.8	369.7
77.5°	63.7	67.2	76.5	93.9	106.6	131.0	165.7	198.2	226.0	222.5	224.9
80°	33.6	33.6	42.9	55.6	74.2	92.7	110.1	128.7	143.7	147.2	150.7
82.5°	19.7	20.9	27.8	40.6	53.3	66.1	84.6	97.4	111.3	112.4	114.7
85°	10.4	11.6	17.4	26.7	35.9	40.6	41.7	39.4	42.9	40.6	46.4
87.5°	3.5	3.5	5.8	4.6	4.6	5.8	7.0	7.0	9.3	9.3	9.3
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°	1710.7	1710.7	1710.7	1710.7	1710.7	1710.7	1710.7	1710.7	1710.7	1710.7	1710.7
2.5°	1720.0	1720.0	1700.3	1663.2	1657.4	1642.4	1628.5	1627.3	1616.9	1607.6	1603.0
5°	1752.5	1716.5	1687.6	1654.0	1614.5	1596.0	1575.1	1552.0	1542.7	1552.0	1550.8
7.5°	1789.6	1759.4	1672.5	1609.9	1564.7	1546.2	1523.0	1498.6	1501.0	1501.0	1484.7
10°	1825.5	1784.9	1645.8	1565.9	1499.8	1485.9	1473.1	1482.4	1494.0	1496.3	1485.9
12.5°	1885.8	1794.2	1633.1	1521.8	1480.1	1450.0	1458.1	1483.6	1507.9	1501.0	1509.1
15°	1931.0	1802.3	1575.1	1476.6	1424.5	1438.4	1467.3	1484.7	1525.3	1520.7	1528.8
17.5°	1975.0	1806.9	1518.3	1416.3	1394.3	1432.6	1454.6	1504.4	1517.2	1545.0	1555.4
20°	2065.4	1816.2	1460.4	1379.3	1372.3	1416.3	1454.6	1477.8	1505.6	1529.9	1529.9
22.5°	2111.8	1811.6	1422.1	1330.6	1352.6	1380.4	1415.2	1454.6	1454.6	1477.8	1478.9
25°	2169.7	1793.0	1361.9	1307.4	1323.6	1350.3	1389.7	1375.8	1390.9	1390.9	1409.4
27.5°	2235.8	1753.6	1309.7	1265.7	1298.1	1327.1	1332.9	1323.6	1306.2	1303.9	1297.0
30°	2289.1	1705.0	1271.5	1251.8	1278.4	1294.6	1276.1	1256.4	1226.3	1223.9	1207.7
32.5°	2362.1	1644.7	1223.9	1217.0	1247.1	1248.3	1242.5	1212.4	1168.3	1149.8	1131.2
35°	2485.0	1609.9	1188.0	1198.4	1207.7	1204.2	1193.8	1161.4	1117.3	1109.2	1102.2
37.5°	2575.4	1584.4	1150.9	1163.7	1171.8	1176.4	1145.1	1109.2	1110.4	1094.1	1089.5
40°	2677.4	1568.2	1120.8	1126.6	1127.7	1142.8	1104.6	1087.2	1095.3	1084.9	1091.8
42.5°	2808.4	1572.8	1089.5	1084.9	1106.9	1101.1	1082.5	1059.4	1064.0	1032.7	1037.3
45°	2877.9	1604.1	1071.0	1050.1	1074.4	1073.3	1048.9	1026.9	999.1	938.8	941.1
47.5°	2924.3	1612.2	1026.9	1013.0	1038.5	1053.6	1025.8	974.8	935.3	892.5	882.0
50°	2971.8	1627.3	1006.0	977.1	987.5	1023.4	988.7	940.0	901.7	863.5	869.3
52.5°	3013.5	1656.3	965.5	922.6	941.1	980.5	962.0	902.9	861.2	829.9	820.6
55°	3199.0	1721.2	897.1	841.5	885.5	935.3	924.9	853.1	807.9	791.6	789.3
56°	3227.9	1723.5	861.2	813.6	854.2	920.3	907.5	831.0	790.5	765.0	766.1
57.5°	3232.6	1695.7	810.2	788.1	822.9	898.3	882.0	813.6	758.0	734.8	727.9
60°	2844.3	1323.6	746.4	732.5	773.1	831.0	825.2	766.1	703.5	676.9	689.6
62.5°	1939.1	970.1	696.6	694.3	715.1	771.9	756.9	703.5	651.4	634.0	625.9
65°	1128.9	736.0	647.9	638.6	656.0	686.2	696.6	641.0	586.5	574.9	571.4
67.5°	666.4	608.5	585.3	570.2	564.5	583.0	591.1	558.7	504.2	488.0	501.9
70°	557.5	541.3	542.4	516.9	503.0	490.3	483.3	454.3	409.1	388.3	382.5
72.5°	481.0	474.0	469.4	446.2	433.5	404.5	374.4	345.4	311.8	294.4	295.6
75°	367.4	365.1	367.4	355.8	333.8	310.6	282.8	245.7	220.2	198.2	202.8
77.5°	219.1	226.0	229.5	224.9	215.6	194.7	177.3	153.0	128.7	111.3	108.9
80°	150.7	156.5	162.3	156.5	147.2	132.1	113.6	95.0	77.7	68.4	66.1
82.5°	114.7	120.5	124.0	118.2	106.6	90.4	77.7	64.9	51.0	41.7	39.4
85°	41.7	47.5	46.4	55.6	60.3	58.0	49.8	38.2	29.0	20.9	19.7
87.5°	11.6	10.4	11.6	11.6	11.6	10.4	9.3	9.3	9.3	5.8	4.6
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)