

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: P527774

Luminaire Tested: **GALN-SA2D-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527774  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-740-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13670 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

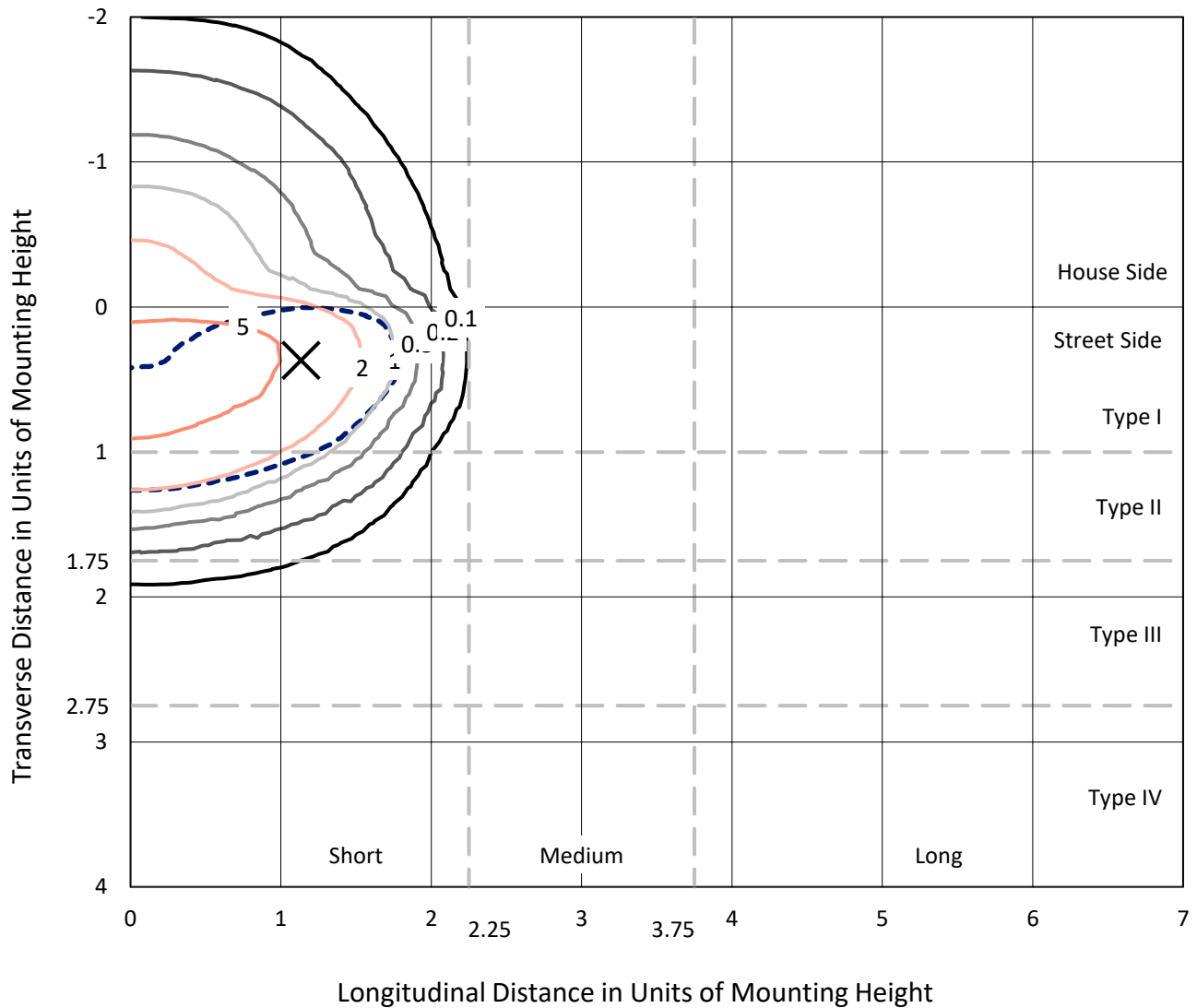
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

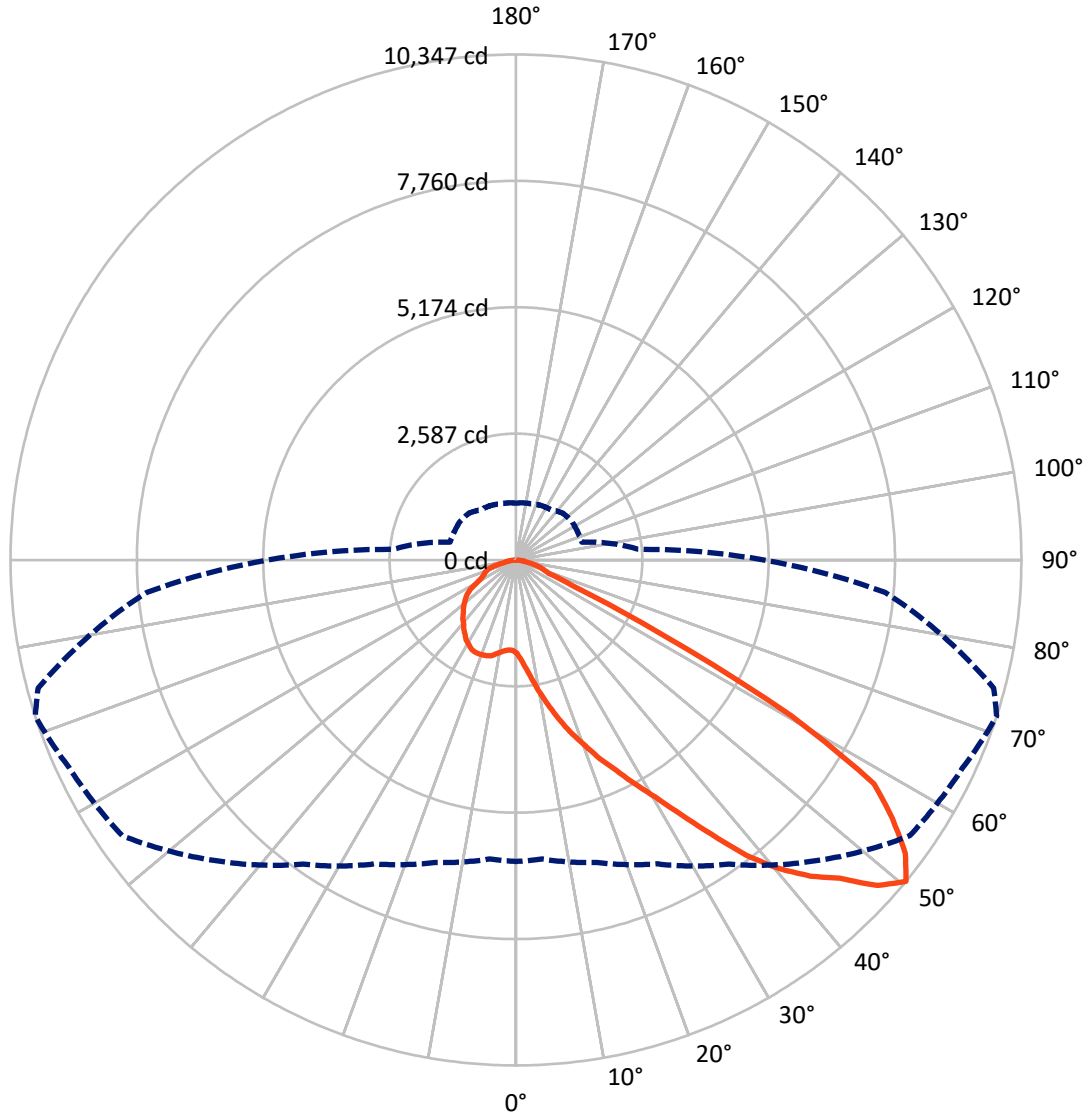
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3131.9	0.0	3131.9
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	10538.1	0.0	10538.1
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	13670.0	0.0	13670.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.8	1.6
10°-20°	836.8	6.1
20°-30°	1622.5	11.9
30°-40°	2687.9	19.7
40°-50°	3760.9	27.5
50°-60°	3172.8	23.2
60°-70°	967.1	7.1
70°-80°	339.3	2.5
80°-90°	59.0	0.4
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°	13670.0	100.0
0°-180°	13670.0	100.0

**Coefficient of Utilization**



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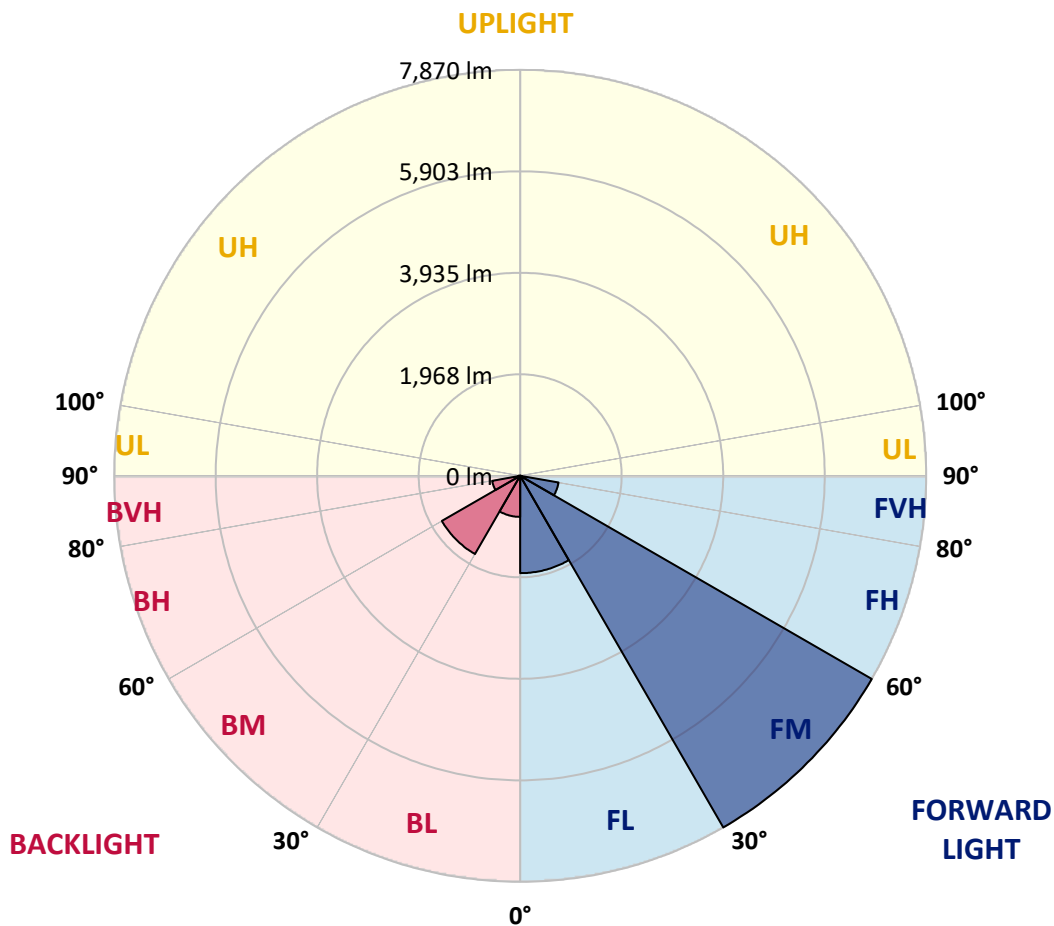
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1887.0	13.8			
FM (30°-60°)	7870.2	57.6			
FH (60°-80°)	754.6	5.5			G1/1800
FVH (80°-90°)	26.4	0.2			G1/100
BL (0°-30°)	796.1	5.8	B2/1000		
BM (30°-60°)	1751.4	12.8	B2/2500		
BH (60°-80°)	551.8	4.0	B2/1000		G2/1000
BVH (80°-90°)	32.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0
2.5°	2447.7	2432.4	2386.8	2371.5	2317.4	2219.3	2185.5	2085.7	2043.4	2004.5	1958.8
5°	3095.5	3024.5	3019.4	2933.1	2808.0	2735.2	2518.7	2373.2	2239.6	2171.9	2046.8
7.5°	3508.3	3509.9	3509.9	3438.9	3339.1	3154.7	2960.2	2698.0	2496.7	2396.9	2183.8
10°	3900.7	3866.9	3848.2	3841.5	3773.8	3594.5	3386.5	3061.7	2786.0	2669.2	2287.0
12.5°	4178.1	4149.3	4191.6	4169.6	4120.6	4003.9	3807.7	3437.2	3092.1	2934.8	2452.7
15°	4310.0	4330.3	4364.2	4425.1	4403.1	4359.1	4142.6	3822.9	3422.0	3244.4	2599.9
17.5°	4513.0	4457.2	4497.8	4573.9	4634.8	4614.5	4491.0	4102.0	3748.4	3530.2	2797.8
20°	4655.1	4623.0	4643.3	4731.2	4776.9	4891.9	4827.7	4467.4	4061.4	3831.3	3031.2
22.5°	5061.1	5013.7	4947.7	4961.3	4978.2	5059.4	5074.6	4868.2	4425.1	4181.5	3252.8
25°	5561.8	5517.8	5440.0	5360.5	5311.4	5296.2	5348.6	5182.9	4773.5	4521.5	3491.3
27.5°	6113.2	6038.8	5989.7	5825.7	5693.7	5673.4	5648.0	5558.4	5186.3	4913.9	3760.3
30°	6649.4	6590.2	6524.3	6262.1	6125.1	6103.1	5977.9	6003.3	5634.5	5331.7	4064.8
32.5°	7055.4	7060.5	6909.9	6712.0	6583.5	6466.8	6421.1	6493.8	6209.6	5966.1	4404.8
35°	7383.6	7398.8	7255.0	7075.7	6937.0	7018.2	6997.9	7031.7	6896.4	6598.7	4800.6
37.5°	7703.3	7627.1	7473.2	7386.9	7314.2	7447.8	7620.4	7649.1	7674.5	7324.4	5260.7
40°	7755.7	7762.5	7672.8	7733.7	7642.4	7843.7	8244.6	8207.3	8310.5	8004.4	5759.7
42.5°	7681.3	7696.5	7732.0	7818.3	8038.2	8280.1	8875.5	8723.3	8848.4	8576.1	6245.2
45°	7559.5	7496.9	7540.9	7869.0	8249.6	8787.5	9452.3	9333.9	9293.3	9065.0	6823.7
47.5°	6977.6	7041.9	7178.9	7583.2	8154.9	8875.5	9861.7	9834.6	9956.4	9795.7	7349.7
50°	6170.7	6145.4	6409.2	6864.3	7601.8	8703.0	9839.7	10085.0	10347.1	10123.9	7584.9
52.5°	4621.3	4756.6	4983.3	5548.2	6600.4	7762.5	9359.3	9768.6	9981.8	9934.4	7395.4
55°	2921.3	2961.9	3098.9	3770.4	4717.7	6229.9	8023.0	8971.9	9352.5	9530.1	7221.2
57.5°	1419.2	1343.1	1510.5	2050.1	2725.1	4189.9	6187.6	7814.9	8642.1	8963.5	6842.3
60°	740.9	769.6	835.6	1028.5	1409.1	2175.3	3856.7	5208.2	6471.8	6965.8	5186.3
62.5°	614.0	624.2	668.2	764.6	937.1	1251.7	1969.0	2539.0	3300.2	3745.1	2950.0
65°	521.0	526.1	573.4	637.7	747.7	881.3	1013.2	1060.6	1283.9	1317.7	1048.8
67.5°	434.7	439.8	490.5	551.4	622.5	658.0	691.8	688.5	713.8	703.7	702.0
70°	334.9	340.0	392.4	456.7	492.2	471.9	576.8	600.5	610.6	619.1	632.6
72.5°	241.9	252.0	292.6	338.3	319.7	367.1	475.3	510.8	524.4	529.5	546.4
75°	175.9	179.3	189.5	175.9	203.0	255.4	334.9	378.9	395.8	400.9	426.3
77.5°	77.8	79.5	81.2	101.5	130.2	159.0	199.6	235.1	258.8	265.6	272.3
80°	40.6	42.3	52.4	69.4	93.0	116.7	145.5	165.8	181.0	182.7	189.5
82.5°	25.4	27.1	37.2	49.1	66.0	86.3	106.6	123.5	135.3	137.0	138.7
85°	11.8	15.2	22.0	30.4	44.0	55.8	57.5	49.1	52.4	54.1	50.7
87.5°	3.4	5.1	6.8	5.1	6.8	6.8	8.5	10.1	10.1	10.1	11.8
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°	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0
2.5°	1933.4	1918.2	1859.0	1837.0	1779.5	1789.6	1759.2	1757.5	1750.7	1749.1	1747.4
5°	1980.8	1933.4	1862.4	1808.3	1776.1	1772.7	1750.7	1750.7	1757.5	1762.6	1750.7
7.5°	2058.6	2004.5	1884.4	1833.6	1804.9	1799.8	1784.6	1772.7	1788.0	1782.9	1769.3
10°	2148.3	2053.5	1926.7	1882.7	1835.3	1823.5	1823.5	1828.6	1803.2	1811.6	1798.1
12.5°	2248.1	2121.2	1980.8	1930.0	1874.2	1867.5	1864.1	1826.9	1840.4	1833.6	1799.8
15°	2374.9	2199.0	2050.1	1963.9	1916.5	1886.1	1842.1	1835.3	1826.9	1809.9	1794.7
17.5°	2511.9	2283.6	2082.3	1974.0	1903.0	1881.0	1847.2	1811.6	1786.3	1789.6	1777.8
20°	2628.7	2361.4	2094.1	1984.2	1892.8	1850.5	1798.1	1776.1	1749.1	1747.4	1745.7
22.5°	2767.4	2466.3	2111.0	1957.1	1862.4	1818.4	1782.9	1744.0	1725.4	1701.7	1713.5
25°	2933.1	2506.9	2114.4	1941.9	1840.4	1762.6	1744.0	1701.7	1694.9	1661.1	1667.9
27.5°	3053.2	2528.8	2087.4	1894.5	1789.6	1730.4	1696.6	1666.2	1654.3	1629.0	1622.2
30°	3213.9	2562.7	2029.8	1835.3	1738.9	1672.9	1652.6	1645.9	1612.0	1585.0	1581.6
32.5°	3396.6	2584.7	1992.6	1774.4	1686.5	1635.7	1645.9	1613.7	1571.4	1547.8	1541.0
35°	3542.1	2593.1	1899.6	1705.1	1650.9	1618.8	1607.0	1600.2	1539.3	1517.3	1500.4
37.5°	3763.7	2574.5	1821.8	1656.0	1612.0	1600.2	1590.0	1544.4	1475.0	1442.9	1419.2
40°	4022.5	2569.4	1722.0	1586.7	1574.8	1588.4	1557.9	1486.9	1390.4	1354.9	1338.0
42.5°	4271.1	2605.0	1659.4	1549.4	1534.2	1539.3	1497.0	1390.4	1343.1	1322.8	1295.7
45°	4687.3	2679.4	1556.2	1491.9	1485.2	1481.8	1431.0	1319.4	1292.3	1267.0	1261.9
47.5°	5062.8	2630.3	1490.2	1432.7	1439.5	1420.9	1312.6	1277.1	1246.7	1221.3	1212.8
50°	5084.8	2513.6	1397.2	1387.1	1388.8	1356.6	1253.4	1229.7	1190.8	1173.9	1162.1
52.5°	4969.7	2322.5	1310.9	1314.3	1319.4	1267.0	1180.7	1163.8	1131.6	1108.0	1101.2
55°	4646.7	2024.8	1226.4	1239.9	1253.4	1153.6	1126.6	1084.3	1058.9	1025.1	1026.8
57.5°	4093.5	1630.6	1108.0	1129.9	1158.7	1048.8	1028.5	976.0	938.8	911.7	908.4
60°	2743.7	1160.4	930.3	938.8	1003.1	959.1	957.4	905.0	854.2	830.5	817.0
62.5°	1618.8	886.4	803.5	795.0	793.3	818.7	861.0	842.4	776.4	730.7	744.3
65°	847.5	766.3	747.7	718.9	702.0	695.2	727.4	735.8	691.8	642.8	639.4
67.5°	712.1	712.1	696.9	686.8	663.1	634.3	614.0	587.0	580.2	566.7	549.7
70°	647.9	664.8	659.7	636.0	615.7	583.6	531.1	487.2	444.9	429.7	439.8
72.5°	565.0	581.9	581.9	570.0	543.0	493.9	443.2	392.4	356.9	329.8	326.5
75°	434.7	443.2	463.5	449.9	414.4	384.0	331.5	279.1	245.3	219.9	214.8
77.5°	277.4	290.9	290.9	289.3	263.9	235.1	201.3	164.1	138.7	120.1	115.0
80°	184.4	192.8	199.6	192.8	175.9	153.9	128.6	103.2	84.6	69.4	66.0
82.5°	135.3	145.5	150.5	143.8	126.9	109.9	91.3	72.7	54.1	42.3	38.9
85°	52.4	54.1	60.9	72.7	71.0	69.4	55.8	40.6	30.4	22.0	20.3
87.5°	13.5	11.8	13.5	13.5	11.8	10.1	10.1	10.1	10.1	5.1	6.8
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)