

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: P526816

Luminaire Tested: **GALN-SA1D-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6365 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

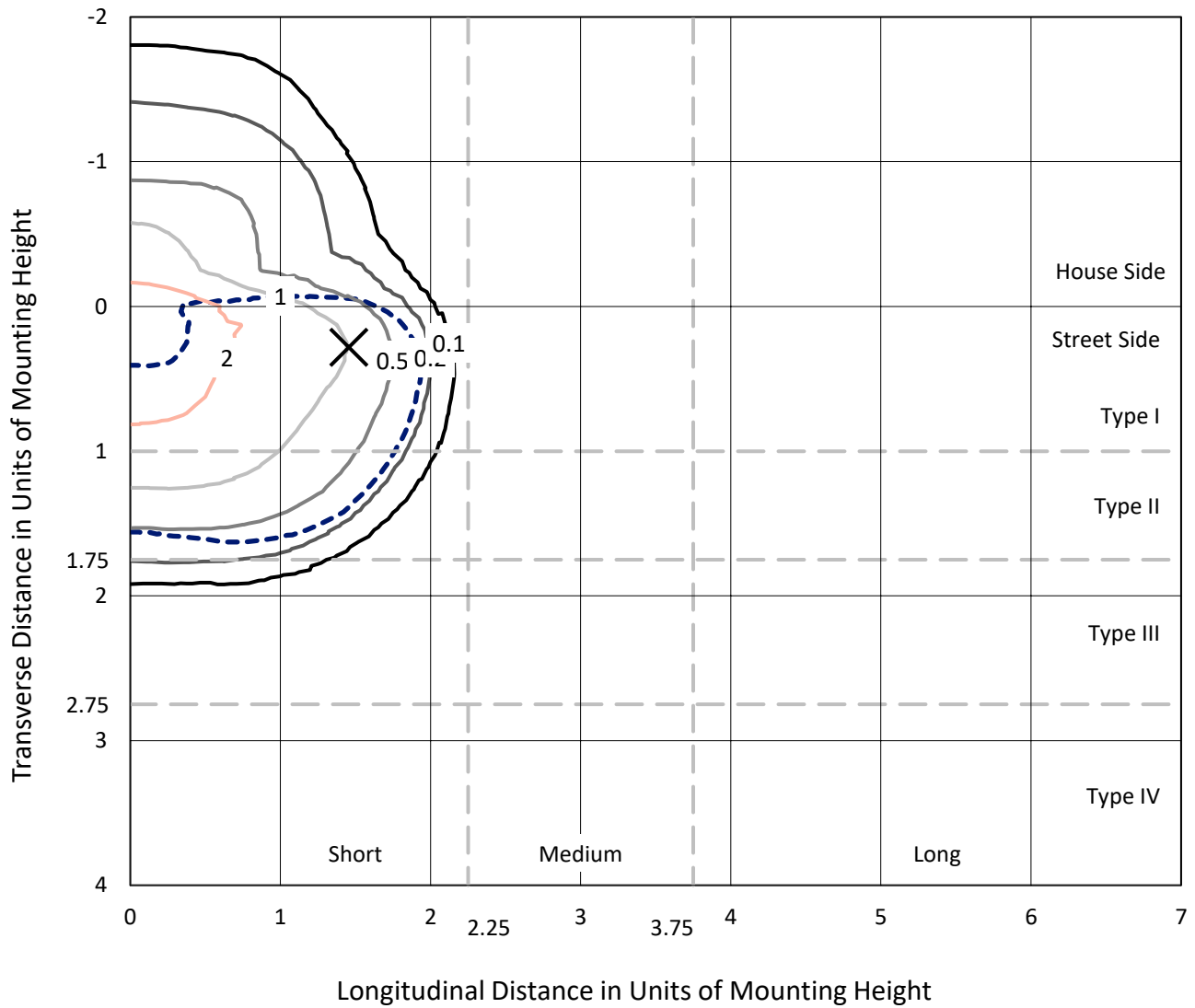
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

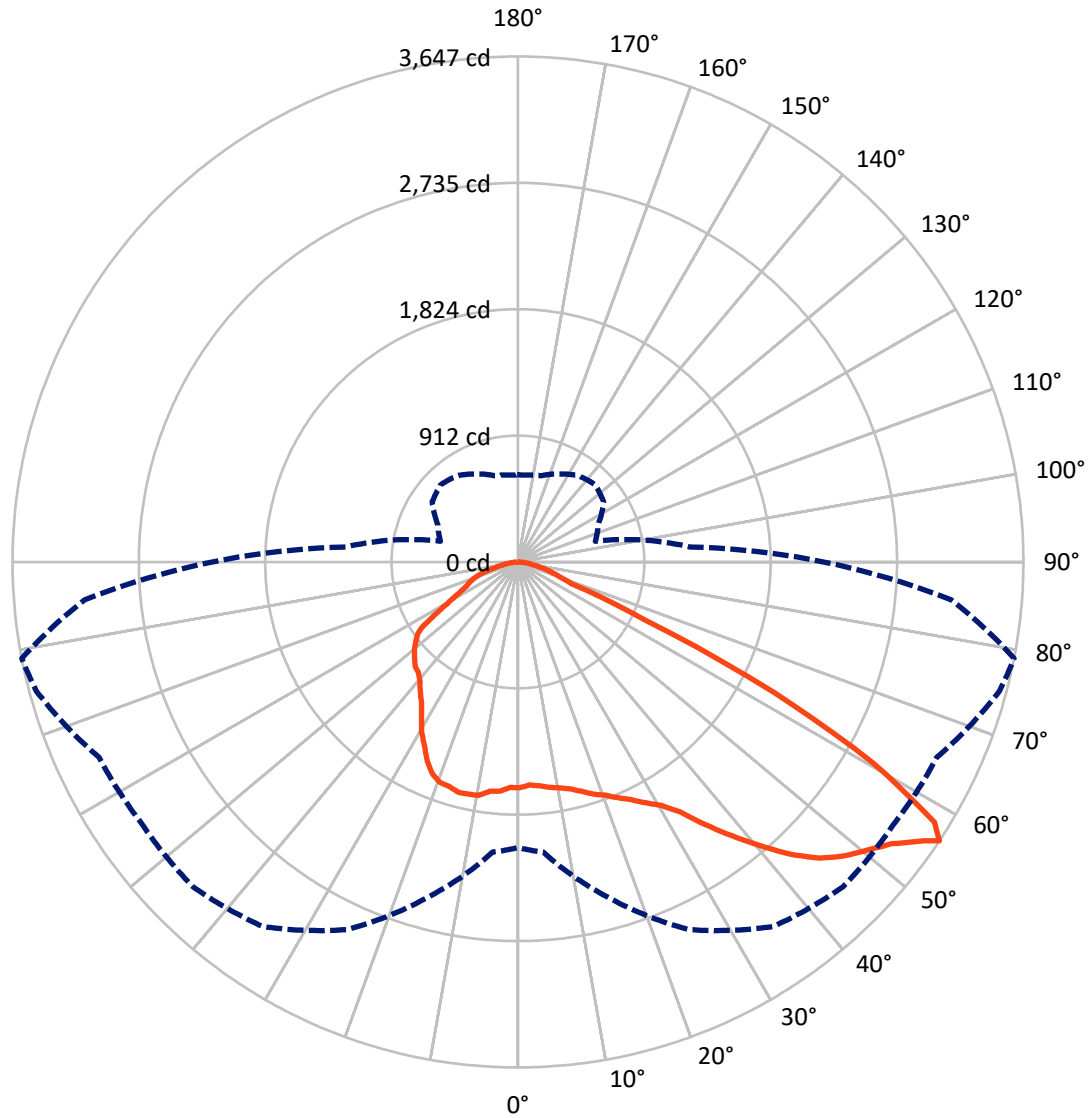
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1879.7	0.0	1879.7
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	4485.3	0.0	4485.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	6365.0	0.0	6365.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	2.3
10°-20°	405.2	6.4
20°-30°	693.2	10.9
30°-40°	1062.5	16.7
40°-50°	1435.9	22.6
50°-60°	1649.2	25.9
60°-70°	751.8	11.8
70°-80°	185.3	2.9
80°-90°	33.7	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°	6365.0	100.0
0°-180°	6365.0	100.0

Coefficient of Utilization



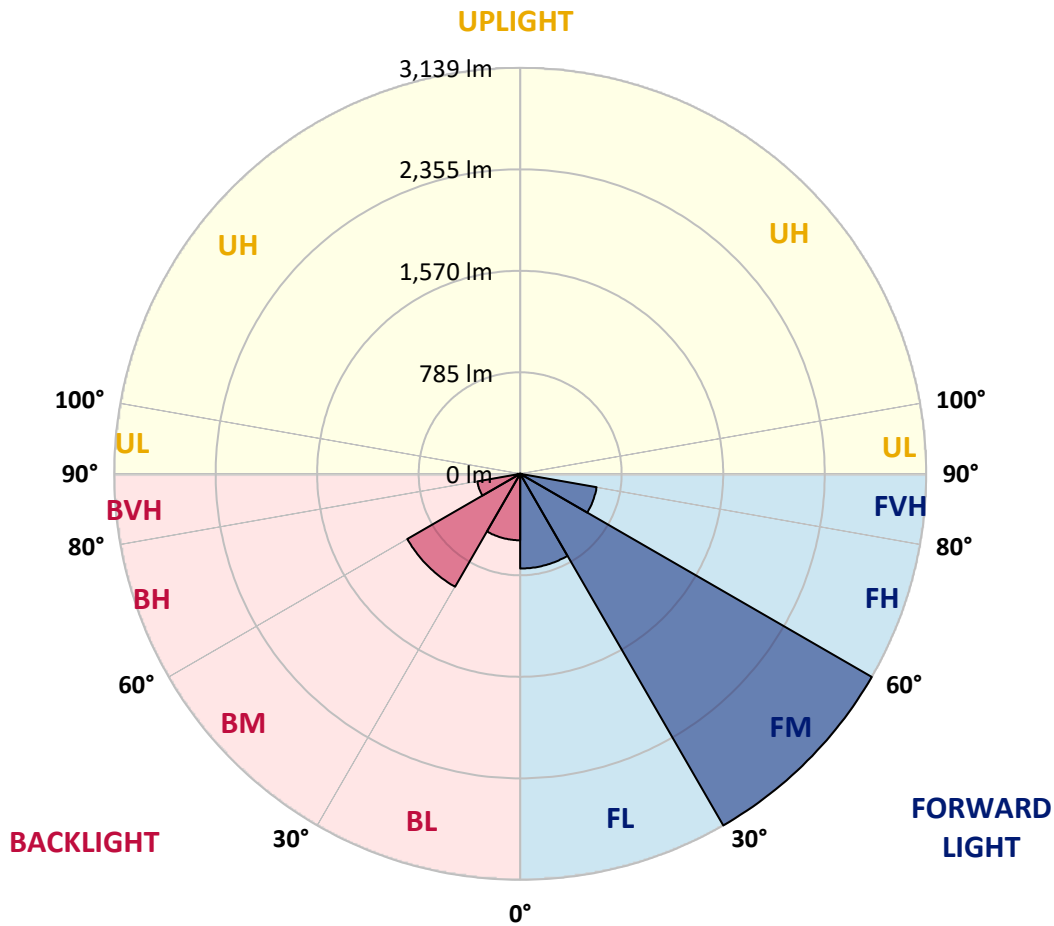
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	732.3	11.5			
FM (30°-60°)	3139.4	49.3			
FH (60°-80°)	600.1	9.4			G0/660
FVH (80°-90°)	13.5	0.2			G1/100
BL (0°-30°)	514.2	8.1	B2/1000		
BM (30°-60°)	1008.3	15.8	B2/2500		
BH (60°-80°)	337.0	5.3	B1/500		G1/500
BVH (80°-90°)	20.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1628.6	1628.6	1628.6	1628.6	1628.6	1628.6	1628.6	1628.6	1628.6	1628.6	1628.6
2.5°	1549.3	1545.3	1554.8	1562.0	1570.7	1581.8	1587.3	1590.5	1618.2	1611.1	1632.5
5°	1516.0	1505.7	1512.8	1518.3	1533.4	1546.9	1562.0	1585.7	1611.1	1622.2	1648.4
7.5°	1486.6	1481.1	1479.5	1483.5	1504.1	1521.5	1547.7	1582.6	1623.8	1642.0	1657.1
10°	1438.3	1430.3	1442.2	1468.4	1473.9	1510.4	1540.5	1590.5	1626.2	1657.9	1702.3
12.5°	1416.9	1408.9	1411.3	1426.4	1465.2	1500.1	1535.8	1592.1	1667.4	1680.1	1739.6
15°	1450.9	1443.0	1445.4	1441.4	1478.7	1496.9	1553.2	1623.8	1695.9	1717.4	1780.8
17.5°	1528.7	1529.4	1519.1	1510.4	1501.7	1540.5	1579.4	1642.8	1707.0	1761.0	1808.5
20°	1676.9	1650.8	1630.1	1581.0	1567.5	1584.2	1633.3	1694.4	1752.2	1796.6	1850.6
22.5°	1791.1	1793.5	1764.1	1683.3	1653.9	1661.1	1703.1	1753.0	1816.5	1848.2	1910.0
25°	1956.8	1940.1	1908.4	1844.2	1778.4	1784.0	1814.9	1860.1	1877.5	1899.7	1967.1
27.5°	2108.2	2113.0	2050.4	1990.1	1908.4	1892.6	1948.1	1956.0	1926.7	1968.7	1991.7
30°	2262.1	2258.1	2216.9	2146.3	2066.2	2069.4	2094.0	2055.1	2014.7	2037.7	2053.5
32.5°	2421.4	2376.2	2374.6	2311.2	2250.2	2220.8	2190.7	2209.7	2147.1	2151.8	2136.8
35°	2549.1	2555.4	2518.9	2473.7	2443.6	2392.1	2309.6	2343.7	2331.8	2326.3	2261.3
37.5°	2641.8	2617.3	2635.5	2620.4	2591.9	2527.7	2442.0	2474.5	2480.1	2507.0	2431.7
40°	2718.0	2707.6	2756.0	2763.9	2744.1	2605.4	2451.5	2548.3	2631.5	2690.2	2600.6
42.5°	2754.4	2776.6	2827.4	2888.4	2844.0	2695.8	2500.7	2604.6	2790.1	2882.9	2760.8
45°	2803.6	2775.0	2850.4	2962.2	2962.9	2771.9	2548.3	2680.7	2913.8	3048.6	2870.2
47.5°	2753.6	2767.9	2845.6	2987.5	3024.0	2851.9	2676.7	2788.5	3050.2	3169.9	2971.7
50°	2641.8	2670.4	2812.3	2959.8	3070.0	2936.8	2824.2	2905.1	3176.2	3267.4	2988.3
52.5°	2525.3	2541.1	2763.1	2981.2	3090.6	3046.2	3021.6	3066.0	3330.0	3377.6	3008.9
55°	2208.1	2283.5	2600.6	2971.7	3191.3	3243.6	3224.6	3289.6	3504.5	3552.0	3121.5
56°	2061.5	2101.1	2503.1	2927.3	3211.1	3315.8	3306.3	3335.6	3597.2	3647.2	3139.0
57.5°	1790.3	1793.5	2134.4	2730.6	3136.6	3337.2	3327.7	3350.7	3579.0	3544.9	2985.9
60°	1120.3	1169.5	1452.5	2100.3	2667.2	3096.2	3150.1	2965.3	3017.7	2945.5	2323.1
62.5°	580.4	573.2	761.2	1228.2	1770.5	2216.9	2266.8	2258.1	2177.2	2071.8	1517.5
65°	289.4	291.0	398.0	608.1	907.0	1160.8	1300.3	1315.4	1100.5	1012.5	719.9
67.5°	210.1	218.0	286.2	371.9	427.4	478.1	585.9	574.8	435.3	413.9	383.7
70°	163.3	170.5	232.3	283.8	257.7	257.7	280.7	290.2	310.0	318.7	329.0
72.5°	118.9	124.5	177.6	195.8	168.9	181.6	210.1	232.3	252.9	256.1	268.0
75°	81.7	86.4	116.6	107.8	101.5	125.3	153.8	174.4	189.5	197.4	204.6
77.5°	53.1	54.7	66.6	56.3	65.0	80.9	99.9	117.3	132.4	138.8	140.3
80°	23.8	26.2	28.5	35.7	45.2	57.9	71.4	85.6	95.1	97.5	102.3
82.5°	13.5	13.5	17.4	25.4	33.3	42.0	51.5	61.8	72.9	75.3	74.5
85°	7.1	7.1	10.3	15.1	20.6	24.6	23.8	24.6	26.2	30.1	29.3
87.5°	2.4	2.4	3.2	3.2	4.0	4.8	4.0	5.6	7.1	7.1	7.1
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°	1628.6	1628.6	1628.6	1628.6	1628.6	1628.6	1628.6	1628.6	1628.6	1628.6	1628.6
2.5°	1626.2	1633.3	1623.8	1644.4	1644.4	1640.4	1620.6	1627.0	1631.7	1631.7	1635.7
5°	1657.1	1654.7	1661.1	1636.5	1621.4	1615.9	1583.4	1567.5	1554.0	1553.2	1541.3
7.5°	1674.5	1668.2	1665.8	1647.6	1581.0	1540.5	1470.8	1430.3	1421.6	1390.7	1402.6
10°	1702.3	1714.2	1702.3	1603.2	1510.4	1417.6	1349.5	1286.8	1262.2	1242.4	1230.5
12.5°	1759.4	1753.8	1684.8	1550.9	1420.8	1310.6	1209.1	1143.3	1118.7	1101.3	1099.7
15°	1807.7	1780.0	1674.5	1468.4	1281.3	1163.9	1080.7	1033.9	1022.8	1024.4	1031.5
17.5°	1824.4	1805.4	1620.6	1382.8	1177.4	1039.5	1000.6	993.5	1003.8	1015.7	1018.8
20°	1850.6	1820.4	1598.4	1266.2	1049.0	961.7	959.4	984.7	1003.8	1021.2	1023.6
22.5°	1905.3	1829.1	1526.3	1156.0	961.0	938.8	961.7	983.2	1012.5	1026.8	1014.1
25°	1921.1	1810.1	1424.8	1023.6	905.5	924.5	949.1	978.4	999.0	1006.9	1012.5
27.5°	1934.6	1780.8	1287.6	935.6	888.0	923.7	949.1	973.6	984.7	991.9	998.2
30°	1972.7	1772.1	1168.7	876.9	876.9	907.8	940.3	946.7	961.7	970.5	981.6
32.5°	1991.7	1711.8	1046.6	839.6	865.8	915.8	918.1	930.0	930.8	938.0	926.1
35°	2041.6	1669.0	933.2	812.7	870.6	907.8	919.7	912.6	873.7	854.7	858.7
37.5°	2078.1	1647.6	851.5	809.5	871.4	916.6	922.9	869.0	828.5	796.8	804.8
40°	2176.4	1594.5	789.7	804.0	878.5	926.1	908.6	850.0	777.0	744.5	739.0
42.5°	2251.7	1556.4	750.8	797.6	884.0	939.5	901.5	811.9	737.4	707.2	715.2
45°	2339.0	1547.7	730.2	799.2	893.6	946.7	892.8	782.6	703.3	691.4	689.0
47.5°	2369.9	1485.0	708.0	785.7	891.2	944.3	863.4	760.4	690.6	692.2	698.5
50°	2318.3	1420.8	691.4	758.0	875.3	922.9	817.4	731.0	683.5	703.3	714.4
52.5°	2252.5	1355.0	657.3	720.7	842.8	889.6	796.0	729.4	676.3	670.0	672.4
55°	2272.4	1301.1	609.7	670.0	790.5	827.8	772.3	714.4	658.9	635.1	643.0
56°	2208.1	1245.6	578.8	638.3	754.8	788.1	760.4	700.9	644.6	628.7	628.7
57.5°	2026.6	1059.3	538.4	587.5	679.5	719.1	737.4	693.0	628.7	601.0	601.8
60°	1494.6	753.2	482.9	517.7	562.9	594.7	679.5	670.8	589.1	570.1	562.9
62.5°	921.3	550.3	443.2	456.7	479.7	505.8	593.1	607.3	547.1	526.5	521.7
65°	516.2	421.0	413.1	418.6	429.7	443.2	492.4	524.1	482.9	451.1	449.6
67.5°	377.4	376.6	383.0	387.7	392.5	392.5	404.4	417.0	411.5	386.1	383.7
70°	335.4	337.8	342.5	343.3	344.9	339.3	329.8	325.9	332.2	316.4	313.2
72.5°	276.7	284.6	290.2	291.0	282.3	275.1	262.4	249.0	244.2	241.0	240.2
75°	212.5	218.0	220.4	219.6	216.5	206.1	191.1	177.6	168.9	159.4	164.1
77.5°	143.5	151.4	155.4	155.4	150.6	134.8	127.7	117.3	108.6	98.3	99.9
80°	100.7	106.2	112.6	111.8	103.9	95.9	85.6	76.1	69.0	61.1	60.3
82.5°	75.3	78.5	81.7	80.1	74.5	66.6	59.5	50.7	42.8	37.3	37.3
85°	27.0	29.3	35.7	37.3	40.4	40.4	34.1	28.5	23.0	19.0	19.0
87.5°	7.9	7.9	8.7	8.7	7.9	8.7	7.1	7.9	8.7	5.6	5.6
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)