

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: P458680

Luminaire Tested: **GALN-SA2B-735-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458680  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-735-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10571 lumens  
Efficiency: N/A  
Efficacy: 128.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

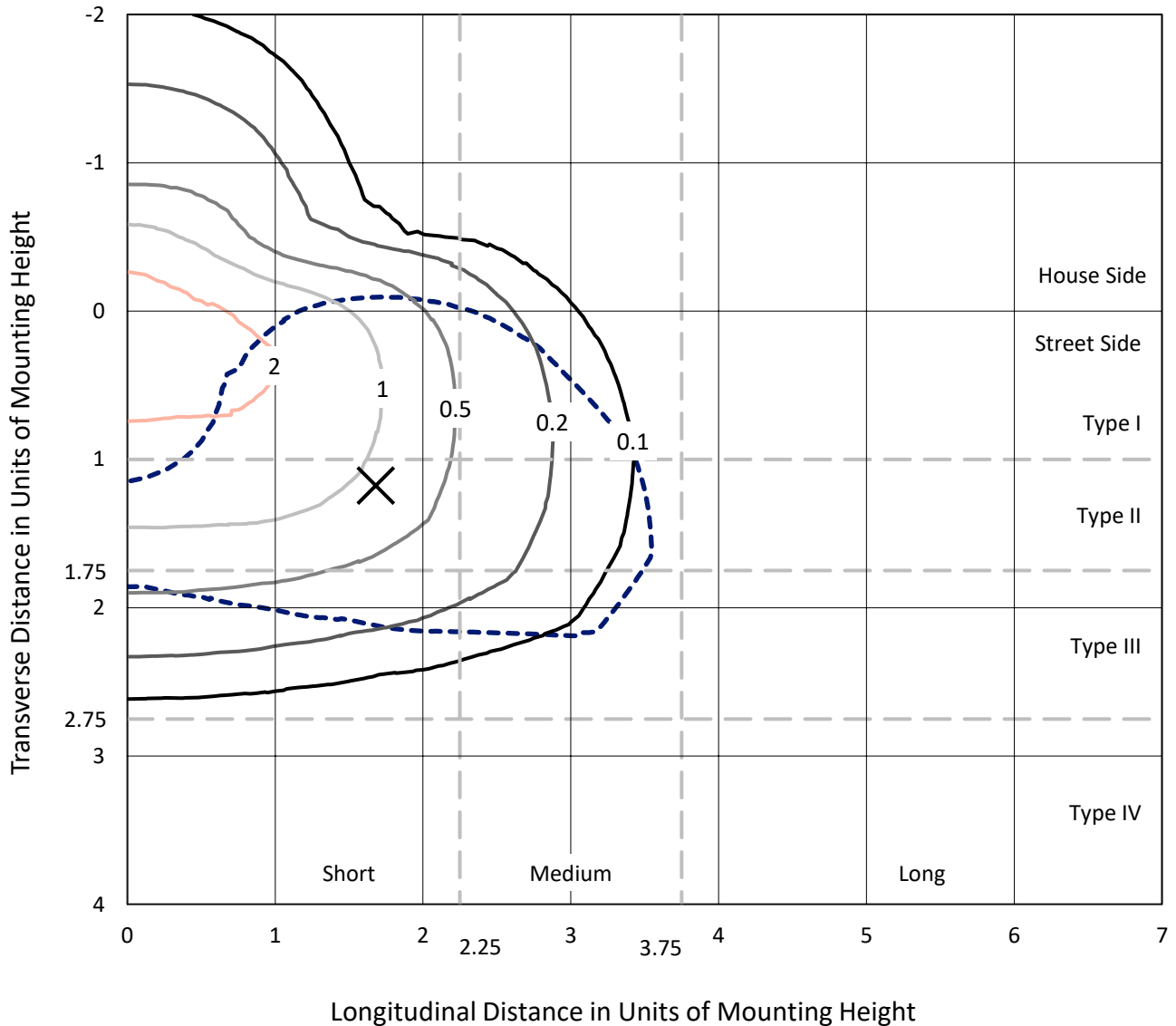
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

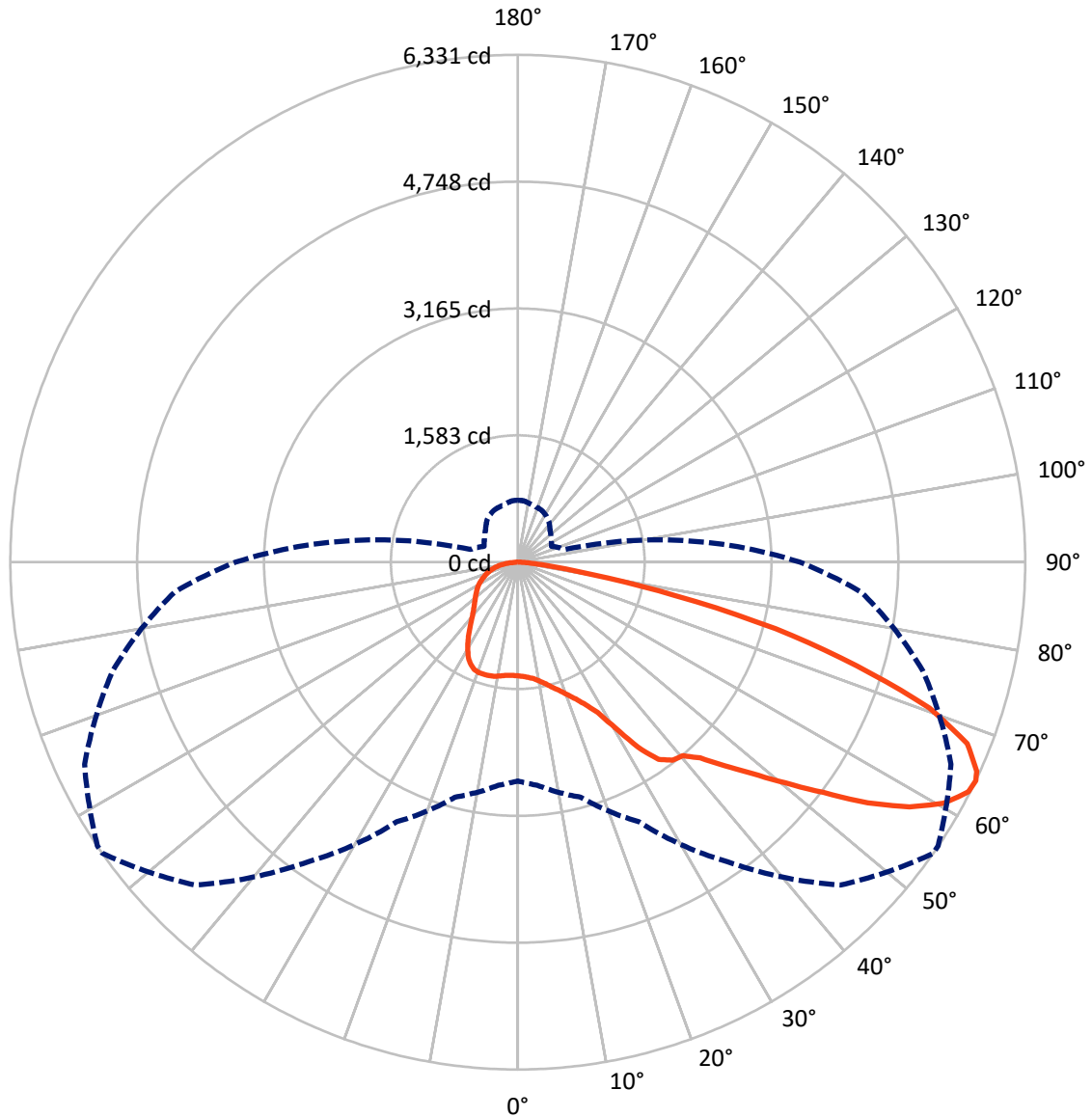
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2567.9	0.0	2567.9
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	8003.1	0.0	8003.1
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	10571.0	0.0	10571.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.0	1.3
10°-20°	435.3	4.1
20°-30°	775.0	7.3
30°-40°	1192.4	11.3
40°-50°	1690.3	16.0
50°-60°	2446.7	23.1
60°-70°	2532.1	24.0
70°-80°	1185.8	11.2
80°-90°	175.5	1.7
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°	10571.0	100.0
0°-180°	10571.0	100.0

**Coefficient of Utilization**



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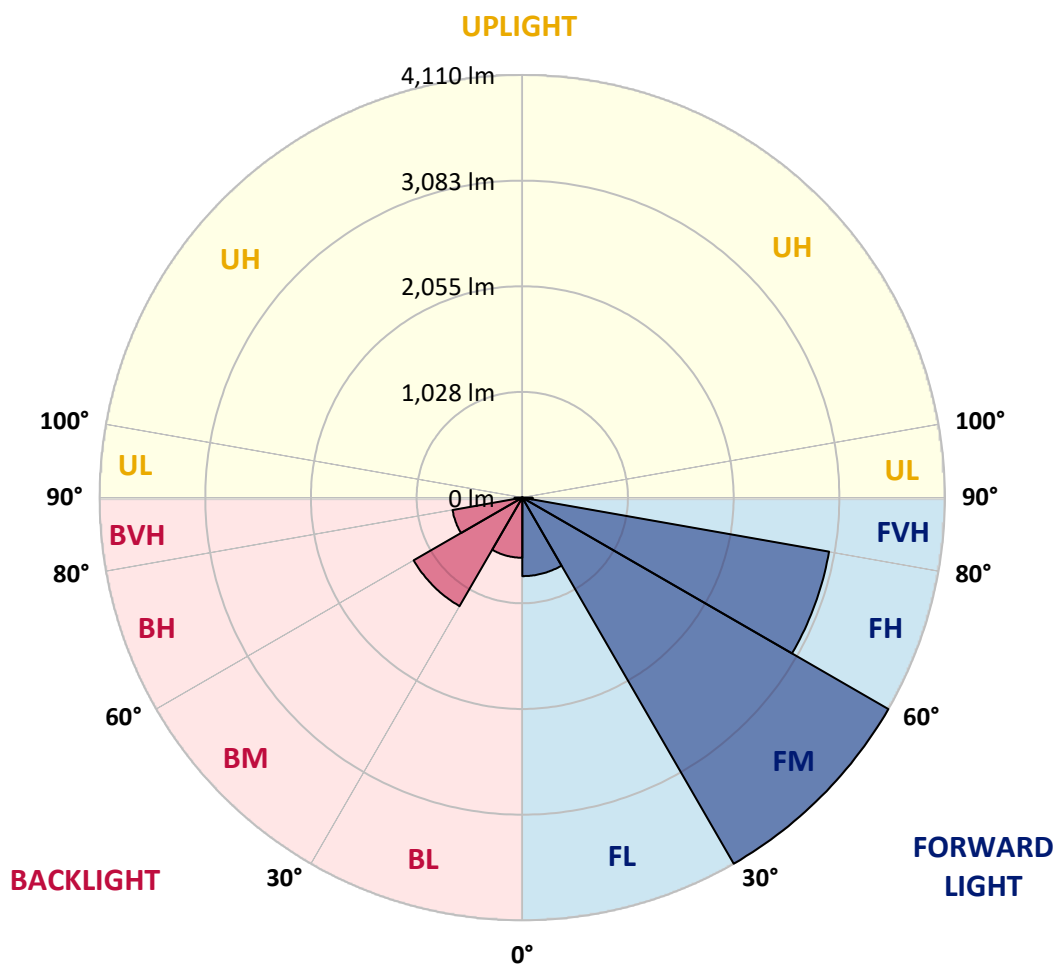
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	763.4	7.2			
FM	(30°-60°)	4110.3	38.9			
FH	(60°-80°)	3028.9	28.7			G2/5000
FVH	(80°-90°)	100.5	1.0			G2/225
BL	(0°-30°)	584.9	5.5	B2/1000		
BM	(30°-60°)	1219.1	11.5	B2/2500		
BH	(60°-80°)	688.9	6.5	B2/1000		G2/1000
BVH	(80°-90°)	75.0	0.7			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3
2.5°	1434.2	1433.6	1435.4	1433.6	1434.8	1430.7	1428.9	1430.1	1428.3	1425.4	1420.1
5°	1451.9	1451.3	1451.9	1449.5	1450.7	1448.4	1444.2	1445.4	1442.5	1436.0	1428.3
7.5°	1481.9	1479.6	1479.6	1479.0	1476.6	1473.1	1470.2	1469.0	1466.0	1457.8	1446.0
10°	1520.8	1520.8	1521.4	1516.7	1519.7	1513.2	1510.2	1509.6	1499.6	1489.0	1472.5
12.5°	1572.1	1575.0	1573.3	1570.9	1569.7	1567.4	1557.4	1559.7	1548.5	1530.3	1510.2
15°	1635.7	1640.5	1637.5	1636.3	1633.4	1624.5	1620.4	1618.7	1603.9	1577.4	1550.9
17.5°	1720.0	1714.1	1711.8	1708.8	1696.4	1690.0	1682.9	1681.7	1668.7	1637.5	1596.3
20°	1793.7	1801.9	1797.2	1794.2	1781.9	1769.5	1764.2	1762.4	1751.2	1717.1	1651.1
22.5°	1881.5	1883.2	1885.0	1877.9	1872.0	1862.6	1853.2	1850.2	1846.1	1810.7	1730.0
25°	1975.1	1982.2	1976.3	1969.3	1962.2	1961.6	1970.4	1969.3	1967.5	1933.3	1834.9
27.5°	2127.8	2134.2	2136.0	2128.3	2101.2	2103.6	2123.6	2130.1	2157.2	2100.7	1969.8
30°	2213.8	2220.3	2235.0	2263.9	2306.9	2344.6	2392.9	2407.6	2433.6	2326.9	2130.1
32.5°	2266.8	2269.2	2295.7	2349.3	2478.4	2619.2	2750.6	2755.9	2772.4	2622.7	2276.8
35°	2350.5	2352.3	2373.5	2432.4	2583.8	2818.4	3021.6	3028.1	3014.6	2714.6	2345.2
37.5°	2453.6	2458.3	2471.9	2520.8	2701.7	2985.1	3134.2	3129.5	3009.3	2787.7	2466.0
40°	2603.9	2603.9	2588.0	2654.0	2826.0	3080.6	3173.7	3165.4	3133.6	2999.2	2649.8
42.5°	2736.4	2734.1	2771.8	2816.6	2981.6	3227.9	3339.2	3352.8	3405.2	3265.0	2859.0
45°	2909.1	2919.7	2940.9	3022.2	3246.1	3479.5	3623.3	3636.2	3710.5	3577.9	3103.5
47.5°	3083.5	3087.0	3153.6	3262.1	3573.8	3820.7	3938.5	3959.7	4027.5	3943.8	3366.9
50°	3207.3	3240.8	3347.5	3518.4	3911.4	4236.7	4328.6	4353.9	4473.5	4342.1	3673.9
52.5°	3338.1	3371.1	3501.3	3761.7	4299.1	4662.1	4775.2	4792.3	4916.6	4745.2	3988.0
55°	3450.0	3480.7	3628.6	3977.4	4607.9	5096.4	5301.4	5281.4	5340.9	5055.7	4230.2
57.5°	3468.3	3493.0	3679.2	4115.3	4840.0	5468.8	5762.8	5774.6	5705.6	5287.9	4429.9
60°	3326.9	3377.5	3591.4	4100.5	4944.3	5728.0	6106.9	6115.2	5919.5	5406.9	4509.5
62.5°	3076.4	3071.1	3329.8	3863.7	4798.2	5787.0	6309.6	6300.8	6003.2	5349.7	4432.3
64°	2730.6	2794.2	3035.8	3572.6	4562.5	5696.2	6330.8	6326.1	5963.1	5230.7	4300.9
65°	2519.6	2516.1	2754.7	3334.5	4328.0	5559.5	6293.1	6286.6	5879.5	5124.1	4198.9
67.5°	1819.0	1827.2	2062.9	2573.2	3518.4	5025.1	6047.4	6023.2	5549.5	4770.5	3811.2
70°	1101.9	1106.6	1291.6	1707.0	2525.5	4062.2	5451.1	5452.3	5044.5	4242.6	3243.8
72.5°	580.4	592.8	667.0	969.3	1533.8	2850.2	4422.3	4527.2	4330.9	3620.9	2562.6
75°	322.9	324.7	377.1	477.9	782.5	1595.1	3323.9	3354.0	3428.8	2914.4	1895.0
77.5°	246.3	249.8	266.3	308.8	426.0	739.5	2011.7	2162.5	2416.5	2054.7	1081.3
80°	199.8	203.3	217.4	242.8	283.4	350.6	934.5	1015.9	1293.4	912.1	421.9
82.5°	155.6	153.2	171.5	188.0	206.2	207.4	383.6	424.3	526.8	392.4	182.7
85°	115.5	115.5	130.2	126.7	133.2	121.4	169.1	186.8	210.9	166.8	84.9
87.5°	46.0	50.7	85.4	76.6	59.5	47.7	62.5	66.0	73.1	65.4	35.4
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°	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3
2.5°	1420.7	1422.4	1418.3	1415.4	1414.2	1412.4	1410.6	1411.2	1413.6	1416.0	1415.4
5°	1427.7	1428.3	1421.3	1417.7	1415.4	1413.0	1413.0	1414.8	1419.5	1423.0	1423.0
7.5°	1445.4	1445.4	1435.4	1428.9	1425.4	1421.3	1420.1	1420.7	1424.2	1428.9	1429.5
10°	1473.1	1470.8	1457.8	1447.8	1441.3	1431.3	1422.4	1417.7	1419.5	1422.4	1422.4
12.5°	1506.7	1500.2	1483.7	1470.2	1454.3	1435.4	1417.1	1407.7	1407.1	1410.1	1408.9
15°	1542.6	1535.6	1512.6	1487.8	1460.1	1432.5	1410.6	1397.1	1386.5	1383.5	1390.0
17.5°	1584.5	1569.7	1537.9	1503.7	1462.5	1426.6	1392.4	1364.7	1345.8	1340.5	1342.3
20°	1635.2	1615.7	1572.7	1519.1	1460.7	1405.3	1352.3	1315.2	1284.6	1275.1	1276.3
22.5°	1705.3	1671.7	1608.6	1526.7	1446.0	1365.3	1291.6	1243.3	1206.2	1191.5	1200.3
25°	1784.8	1748.3	1642.8	1525.0	1407.7	1301.0	1219.7	1156.7	1123.1	1101.3	1106.0
27.5°	1894.4	1829.6	1679.3	1509.1	1352.9	1222.7	1128.4	1068.9	1038.2	1027.1	1032.4
30°	2034.7	1935.1	1718.8	1466.0	1266.3	1123.7	1036.5	997.6	979.3	965.2	969.9
32.5°	2136.0	2009.3	1727.7	1393.6	1172.6	1033.5	974.0	945.1	925.1	911.6	914.5
35°	2208.5	2072.4	1723.5	1304.6	1074.8	959.3	924.5	901.0	868.5	839.1	833.8
37.5°	2305.7	2151.3	1693.5	1207.4	978.1	909.2	884.5	840.9	794.3	754.8	753.1
40°	2454.8	2243.8	1629.3	1093.0	895.7	872.1	842.0	785.5	735.4	703.6	701.2
42.5°	2608.6	2329.3	1542.1	972.8	827.9	833.2	796.7	740.7	710.0	689.4	687.1
45°	2796.5	2421.8	1447.8	868.5	777.8	796.7	757.2	724.8	706.5	693.0	689.4
47.5°	2999.8	2516.7	1341.7	774.9	735.4	763.1	740.7	725.9	715.9	706.5	702.4
50°	3219.0	2622.7	1242.1	699.4	697.1	728.3	738.9	733.6	727.7	724.8	721.2
52.5°	3459.4	2731.1	1158.5	646.4	663.5	703.6	739.5	743.6	743.6	741.9	739.5
55°	3622.1	2806.6	1073.6	603.4	629.3	683.5	738.3	754.2	760.1	757.8	755.4
57.5°	3742.3	2847.8	966.9	566.3	600.4	664.1	731.8	755.4	761.3	764.2	763.1
60°	3767.0	2809.5	827.3	527.4	569.2	635.8	708.3	737.7	745.4	763.7	765.4
62.5°	3655.7	2691.7	688.2	489.1	530.9	592.8	676.5	717.7	733.0	761.3	764.2
64°	3519.0	2559.7	611.0	464.9	506.2	568.6	660.5	712.4	732.4	770.1	772.5
65°	3418.8	2463.6	562.7	449.6	490.3	552.7	651.7	714.2	737.7	783.7	787.2
67.5°	3049.9	2133.1	465.5	413.6	452.5	525.6	653.5	728.9	736.6	789.0	788.4
70°	2523.7	1698.2	390.1	380.7	416.0	503.8	646.4	705.3	705.9	740.7	732.4
72.5°	1889.7	1255.1	338.2	346.5	375.3	451.9	610.5	673.5	663.5	668.2	660.0
75°	1298.1	830.2	291.1	309.9	332.9	399.5	559.8	611.6	595.7	589.8	583.9
77.5°	693.0	459.0	242.2	274.0	289.3	345.3	488.5	538.6	522.1	499.1	491.4
80°	280.5	216.3	195.0	226.9	235.7	278.1	406.6	437.8	425.4	385.4	372.4
82.5°	140.8	129.6	153.2	178.5	179.1	198.6	302.3	331.7	304.0	255.1	243.9
85°	73.7	76.0	105.5	125.5	110.8	107.2	181.5	200.9	184.4	160.3	144.4
87.5°	26.5	30.6	55.4	54.8	38.9	20.6	40.1	19.4	10.6	6.5	8.2
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)