

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: P450674

Luminaire Tested: **GALN-SA1C-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6063 lumens
Efficiency: N/A
Efficacy: 106.4 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

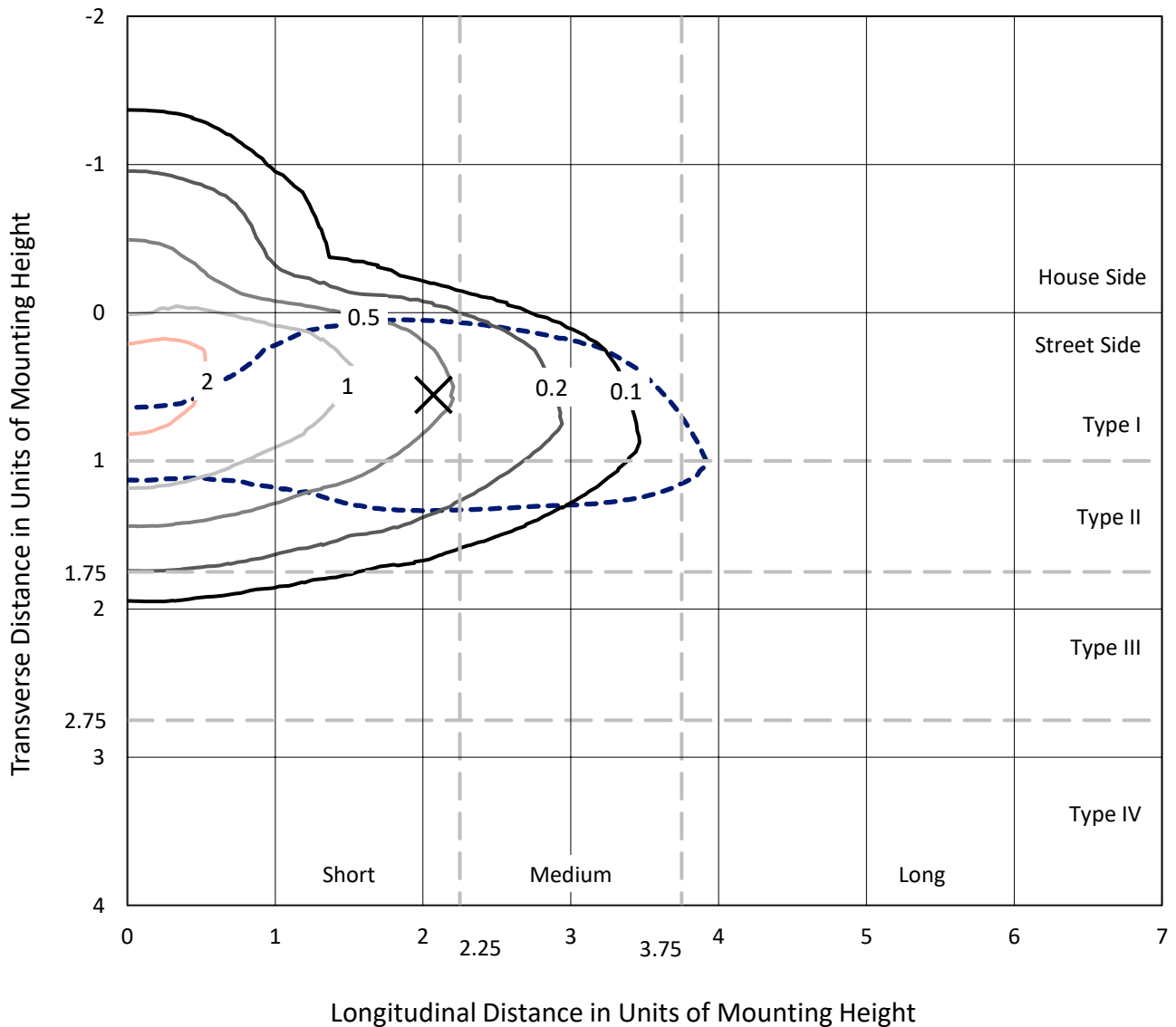
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

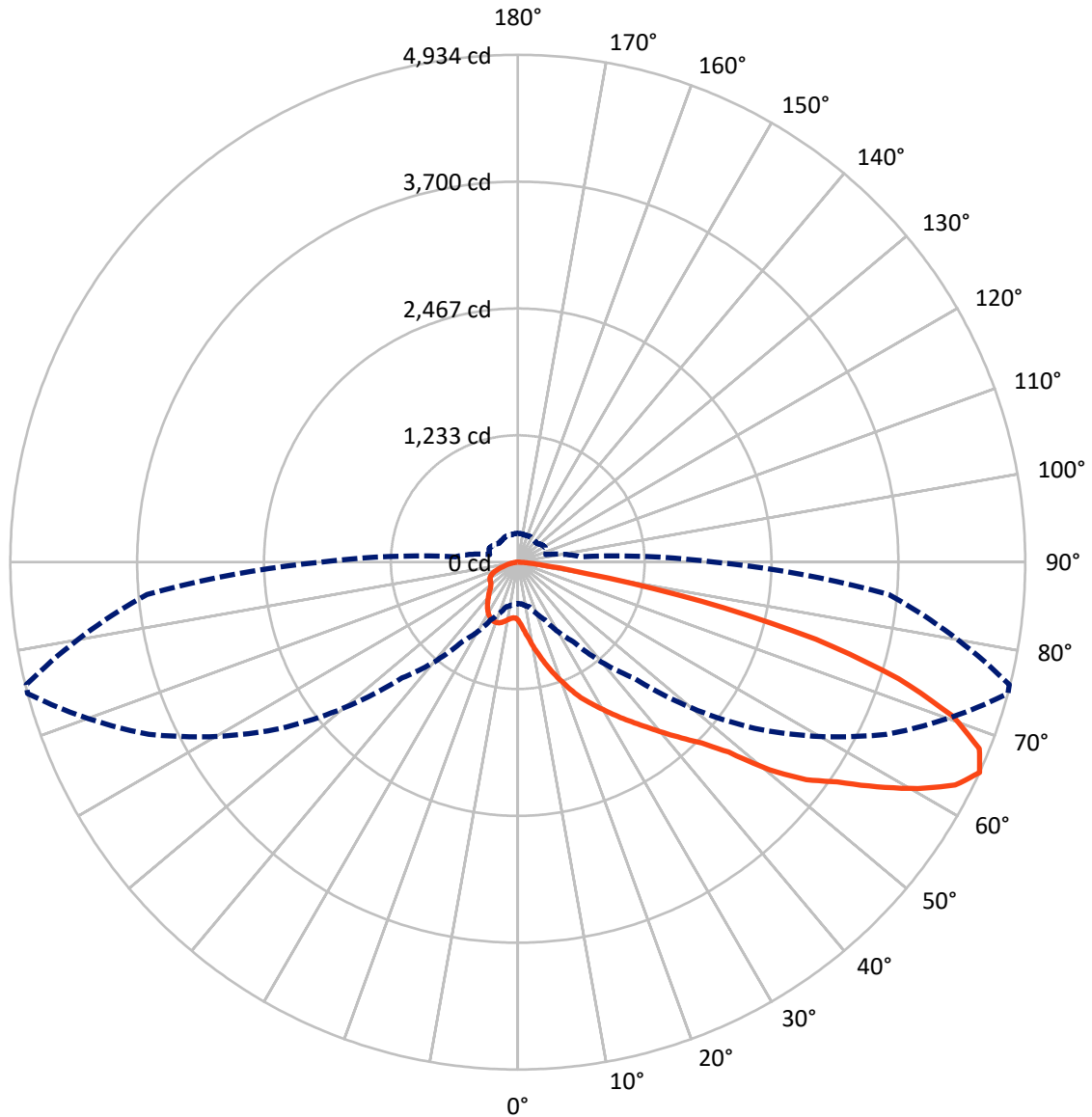
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1019.3	0.0	1019.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	5043.7	0.0	5043.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	6063.0	0.0	6063.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	1.1
10°-20°	268.1	4.4
20°-30°	517.8	8.5
30°-40°	841.1	13.9
40°-50°	1157.1	19.1
50°-60°	1366.1	22.5
60°-70°	1196.9	19.7
70°-80°	571.4	9.4
80°-90°	76.0	1.3
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°	6063.0	100.0
0°-180°	6063.0	100.0



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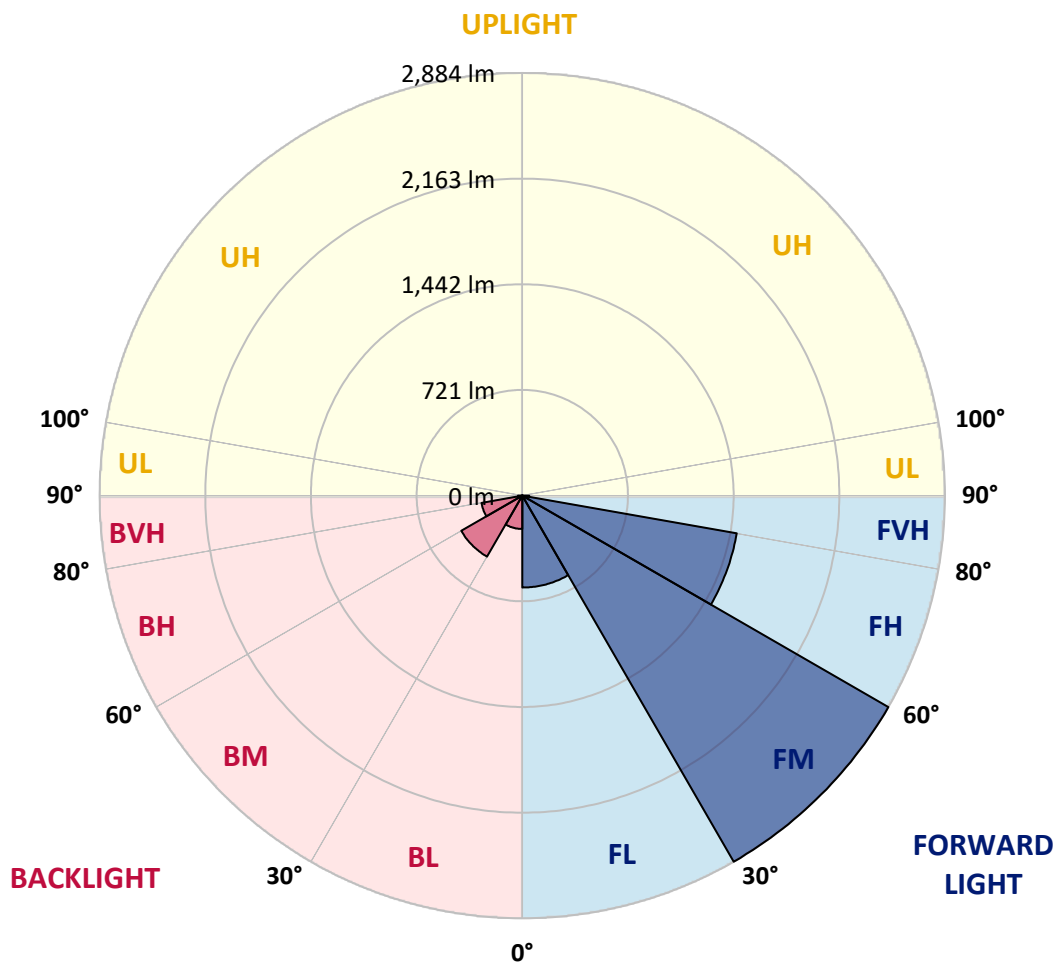
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	626.8	10.3			
FM (30°-60°)	2883.7	47.6			
FH (60°-80°)	1485.7	24.5			G1/1800
FVH (80°-90°)	47.5	0.8			G1/100
BL (0°-30°)	227.5	3.8	B1/500		
BM (30°-60°)	480.6	7.9	B1/1000		
BH (60°-80°)	282.6	4.7	B1/500		G1/500
BVH (80°-90°)	28.5	0.5			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°	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3
2.5°	748.5	743.5	738.3	723.8	708.4	690.9	665.9	641.9	610.0	609.0	585.4
5°	956.0	952.7	929.3	915.9	880.0	832.3	791.9	729.1	670.9	664.0	617.9
7.5°	1146.7	1133.9	1125.0	1100.7	1065.2	1004.0	925.7	840.9	743.5	734.3	658.0
10°	1290.4	1289.1	1284.5	1263.5	1236.8	1176.0	1089.2	967.5	835.6	817.5	706.7
12.5°	1398.0	1399.0	1398.3	1398.0	1378.9	1327.3	1233.2	1105.0	928.7	915.9	762.9
15°	1468.7	1478.5	1482.5	1498.9	1500.6	1466.0	1385.1	1237.8	1033.6	1014.5	823.5
17.5°	1515.4	1520.3	1538.7	1566.7	1589.4	1583.1	1511.1	1360.8	1140.8	1108.9	886.3
20°	1560.1	1568.6	1582.8	1620.9	1661.0	1679.5	1628.8	1486.8	1247.0	1226.6	955.7
22.5°	1653.2	1665.3	1670.3	1689.7	1723.9	1756.4	1733.4	1607.4	1363.4	1335.8	1029.3
25°	1810.7	1823.5	1809.7	1805.1	1816.3	1832.4	1827.4	1721.2	1473.3	1433.8	1099.0
27.5°	2015.9	2017.5	1990.6	1964.9	1937.3	1929.1	1913.9	1822.2	1568.6	1535.8	1169.1
30°	2236.2	2228.3	2183.6	2137.2	2090.5	2044.5	2001.1	1919.5	1674.9	1637.0	1237.8
32.5°	2440.8	2436.5	2386.8	2314.8	2235.9	2192.5	2104.7	2017.9	1788.6	1752.1	1308.5
35°	2594.0	2600.3	2545.7	2467.1	2380.9	2342.4	2231.6	2121.1	1906.4	1866.6	1385.5
37.5°	2702.9	2699.6	2651.2	2583.2	2507.5	2474.0	2379.9	2233.9	2033.0	1994.8	1469.7
40°	2741.7	2739.7	2703.8	2654.2	2606.2	2594.3	2535.1	2355.6	2178.0	2133.3	1570.9
42.5°	2717.0	2721.3	2697.6	2684.1	2675.2	2683.8	2689.4	2515.1	2336.2	2295.1	1680.8
45°	2641.4	2639.1	2635.8	2657.8	2707.8	2764.0	2842.0	2665.7	2508.2	2475.3	1828.1
47.5°	2506.2	2522.6	2530.9	2591.7	2700.9	2834.1	3017.6	2867.6	2757.8	2729.2	2052.7
50°	2317.1	2330.3	2378.9	2487.1	2649.9	2860.4	3189.2	3197.8	3174.1	3120.5	2296.7
52.5°	2021.8	2042.2	2142.5	2340.8	2545.3	2849.5	3293.2	3480.9	3512.2	3472.1	2537.1
55°	1691.3	1719.9	1825.8	2085.9	2401.3	2790.3	3364.8	3645.0	3769.7	3732.5	2768.6
57.5°	1367.7	1398.0	1506.8	1758.7	2150.1	2659.5	3411.9	3827.9	4120.2	4071.9	3056.7
60°	1025.0	1056.6	1150.0	1409.5	1792.3	2403.6	3380.0	3986.4	4470.5	4449.7	3345.1
62.5°	661.3	696.2	777.4	992.2	1377.6	2054.0	3209.3	4073.9	4773.7	4748.7	3555.6
65°	402.8	406.8	451.5	615.9	942.8	1590.3	2818.9	3957.8	4933.5	4925.9	3619.7
67.5°	260.5	266.7	287.1	369.0	565.3	1104.6	2254.0	3574.7	4840.1	4837.5	3487.2
70°	220.0	222.0	231.2	248.9	328.5	669.9	1582.8	2964.0	4485.3	4485.3	3168.5
72.5°	196.7	199.3	202.6	208.2	234.5	379.5	944.5	2307.2	3872.6	3898.3	2696.9
75°	178.6	177.9	179.9	180.9	199.9	248.0	488.4	1706.4	2995.9	2944.6	1953.1
77.5°	152.9	153.9	152.9	157.2	176.6	188.8	248.0	1145.1	1815.6	1749.2	980.3
80°	125.6	127.3	128.9	131.5	150.9	143.4	149.0	521.9	671.5	657.4	302.9
82.5°	94.4	96.7	99.3	105.6	118.7	94.7	94.1	223.0	242.4	222.0	111.5
85°	38.1	45.1	68.1	74.3	74.7	52.0	57.9	93.1	99.0	96.7	43.7
87.5°	8.9	10.5	22.0	33.2	30.6	19.4	21.4	30.3	34.5	31.9	14.8
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°	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3
2.5°	574.5	563.0	543.3	528.1	517.3	507.8	501.8	498.2	496.9	496.6	496.9
5°	593.9	573.5	542.3	522.6	511.7	505.5	501.8	501.5	501.8	502.2	501.2
7.5°	620.6	591.3	550.5	532.1	523.9	519.3	517.6	517.0	517.3	517.0	517.0
10°	656.1	615.9	566.6	547.5	540.6	535.4	532.7	531.1	529.8	528.5	527.8
12.5°	695.2	643.2	584.0	565.6	555.8	547.5	541.6	537.3	534.4	531.4	530.8
15°	738.9	672.2	603.4	577.8	563.7	551.5	541.3	534.4	529.1	524.9	524.5
17.5°	780.7	699.5	616.6	583.4	562.7	545.6	532.1	522.6	516.0	510.4	509.7
20°	825.4	725.5	622.5	579.8	552.8	532.1	514.3	502.8	495.3	489.0	488.0
22.5°	870.5	747.5	621.9	568.3	535.7	511.4	492.6	480.5	471.6	465.3	463.0
25°	913.6	765.2	613.6	549.8	512.0	486.7	467.6	456.5	448.6	441.0	441.0
27.5°	952.4	775.8	598.2	527.5	487.7	461.1	445.9	435.7	428.5	423.6	420.6
30°	990.5	780.7	577.1	499.2	462.0	439.4	427.2	421.3	414.7	409.1	408.4
32.5°	1024.7	779.7	550.8	471.6	437.7	421.6	416.7	412.1	405.1	397.3	395.3
35°	1057.9	773.1	519.6	441.3	417.3	411.1	412.4	405.8	393.3	383.4	381.8
37.5°	1094.1	761.3	485.4	416.7	400.2	406.1	409.4	395.0	374.6	359.1	355.5
40°	1135.9	747.8	449.9	392.0	386.7	401.5	401.5	374.9	346.9	337.4	334.8
42.5°	1184.9	736.6	420.3	371.3	375.6	390.4	388.7	348.3	336.7	331.8	330.5
45°	1262.5	732.7	389.7	353.2	366.3	377.2	363.7	339.0	332.5	328.5	327.2
47.5°	1385.1	737.3	362.7	339.7	355.8	364.0	335.8	332.8	328.2	322.6	321.9
50°	1498.9	733.0	343.7	332.1	346.6	348.3	324.3	325.2	322.6	316.4	315.0
52.5°	1592.0	719.5	331.5	328.2	338.7	320.6	313.4	317.0	316.0	308.1	306.8
55°	1694.3	711.3	325.6	328.2	333.5	296.6	303.2	308.5	307.2	301.6	301.2
57.5°	1818.2	713.0	321.3	329.2	328.2	284.5	293.0	299.3	298.9	297.3	297.3
60°	1945.2	713.6	314.7	328.9	321.9	274.9	282.5	291.4	292.0	293.0	293.0
62.5°	1987.3	685.0	301.9	322.9	308.1	265.7	272.6	284.8	284.1	286.8	287.1
65°	1908.7	605.8	282.8	309.5	290.4	259.1	265.1	276.2	272.6	279.5	280.8
67.5°	1737.3	501.2	253.2	285.1	270.6	252.2	260.1	264.4	257.8	271.3	271.6
70°	1501.6	391.3	215.7	250.6	248.3	245.0	256.2	249.6	240.4	256.8	253.5
72.5°	1255.6	298.9	172.3	204.9	218.4	234.1	249.3	230.5	217.7	222.6	216.7
75°	943.2	221.0	138.4	160.5	181.9	218.7	243.0	207.5	187.8	183.2	181.9
77.5°	480.8	144.4	103.6	120.0	136.5	197.6	234.5	180.5	155.5	148.3	145.0
80°	171.7	89.8	73.0	82.9	92.1	170.0	204.9	149.3	120.7	119.4	120.7
82.5°	79.6	57.9	49.0	54.3	54.6	113.5	156.2	111.5	91.8	139.4	117.7
85°	34.2	28.9	27.6	27.0	25.0	50.6	87.8	59.9	93.4	41.8	38.5
87.5°	10.2	11.5	10.2	7.6	5.6	5.6	8.9	3.3	2.3	1.6	1.6
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)