

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: P451051

Luminaire Tested: **GALN-SA1D-827-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451051
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-SA1D-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5864 lumens
Efficiency: N/A
Efficacy: 90.2 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

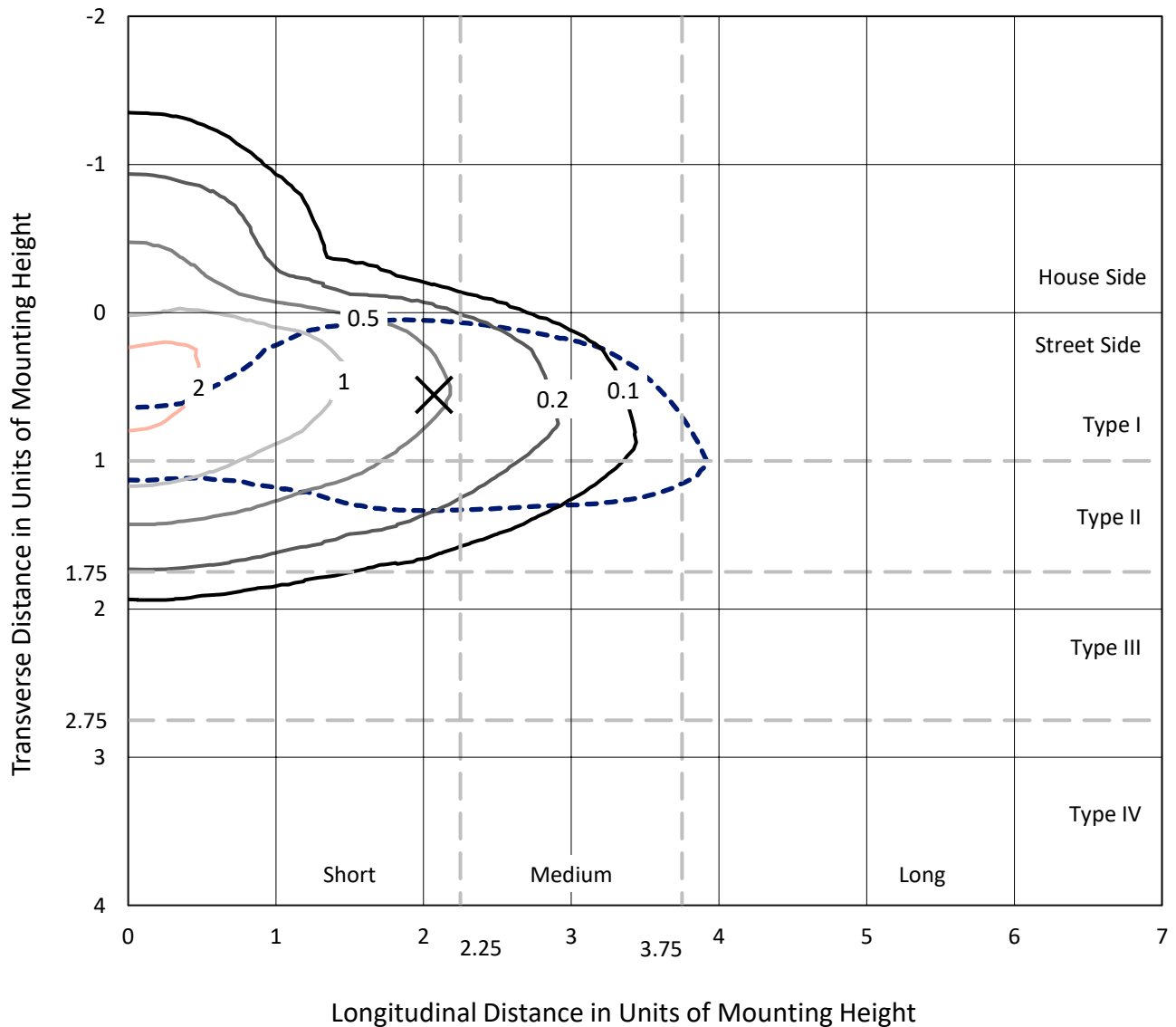
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

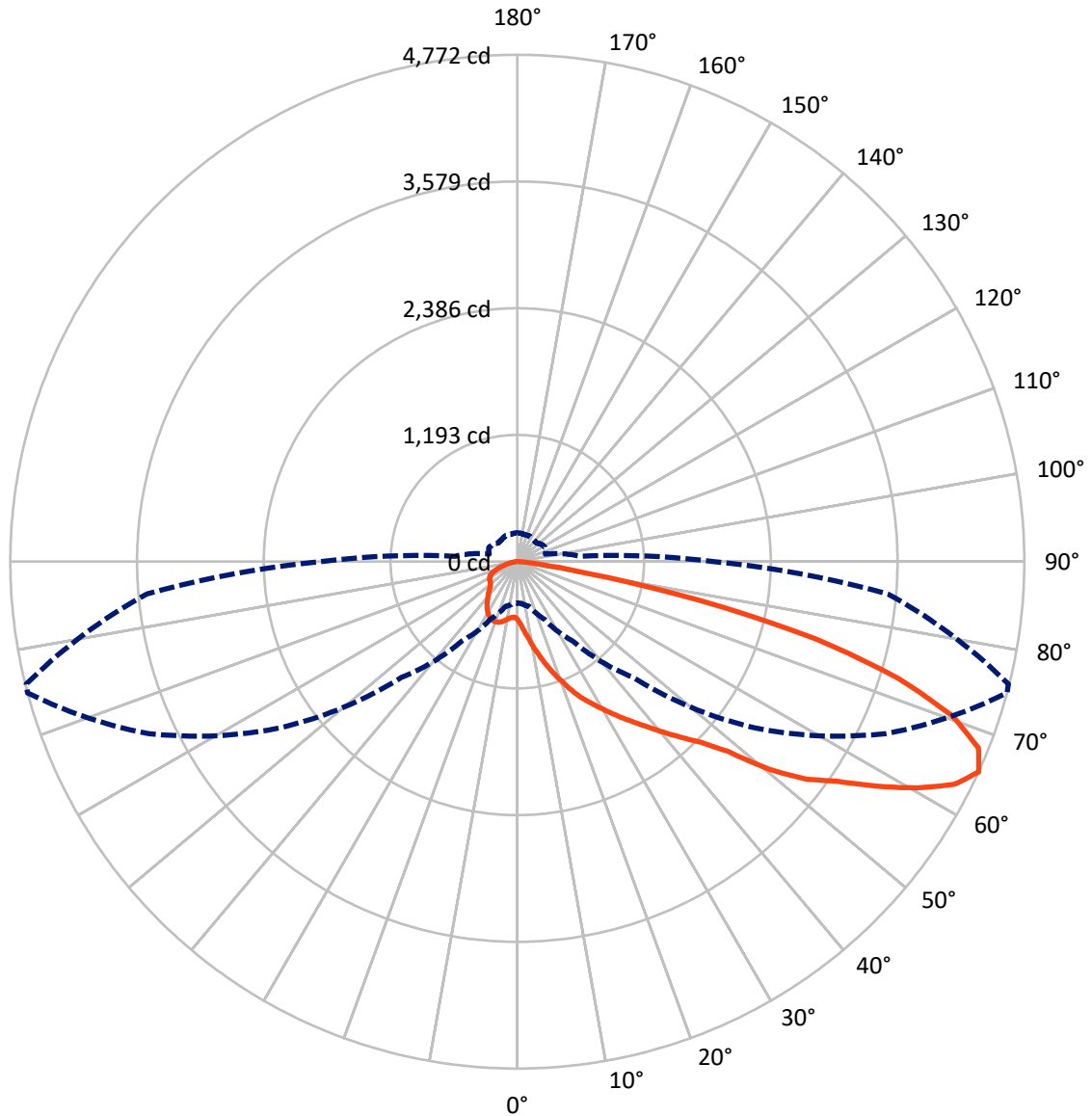
× Max cd
 - - - 1/2 Max cd



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	985.8	0.0	985.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	4878.2	0.0	4878.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	5864.0	0.0	5864.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	1.1
10°-20°	259.3	4.4
20°-30°	500.8	8.5
30°-40°	813.5	13.9
40°-50°	1119.1	19.1
50°-60°	1321.2	22.5
60°-70°	1157.6	19.7
70°-80°	552.7	9.4
80°-90°	73.5	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°	5864.0	100.0
0°-180°	5864.0	100.0

Coefficient of Utilization



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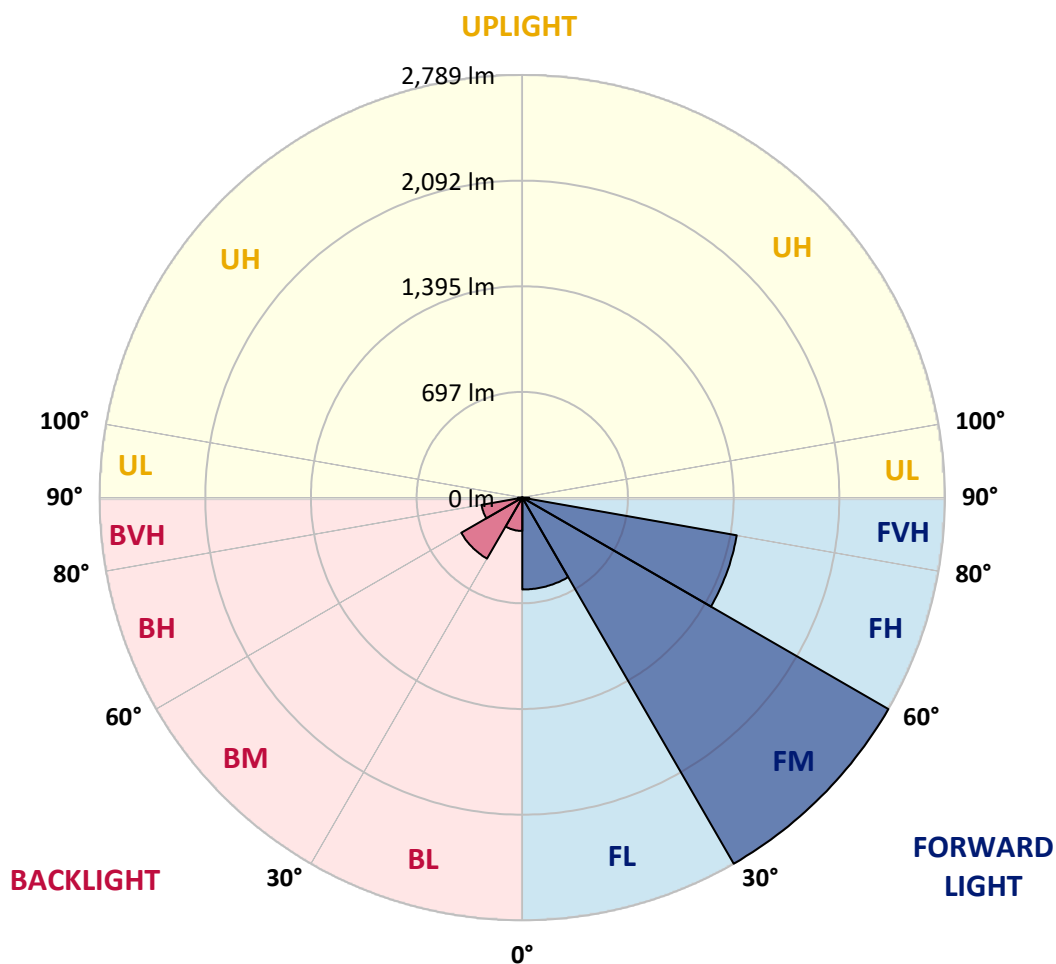
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	606.2	10.3			
FM (30°-60°)	2789.0	47.6			
FH (60°-80°)	1436.9	24.5			G1/1800
FVH (80°-90°)	46.0	0.8			G1/100
BL (0°-30°)	220.1	3.8	B1/500		
BM (30°-60°)	464.8	7.9	B1/1000		
BH (60°-80°)	273.4	4.7	B1/500		G1/500
BVH (80°-90°)	27.6	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°	544.8	544.8	544.8	544.8	544.8	544.8	544.8	544.8	544.8	544.8	544.8
2.5°	723.9	719.1	714.0	700.1	685.1	668.2	644.1	620.9	590.0	589.1	566.1
5°	924.6	921.4	898.8	885.8	851.1	805.0	765.9	705.1	648.8	642.2	597.6
7.5°	1109.1	1096.7	1088.1	1064.6	1030.2	971.0	895.3	813.3	719.1	710.2	636.4
10°	1248.1	1246.8	1242.3	1222.0	1196.2	1137.4	1053.4	935.7	808.2	790.7	683.5
12.5°	1352.1	1353.0	1352.4	1352.1	1333.6	1283.7	1192.7	1068.7	898.2	885.8	737.9
15°	1420.5	1430.0	1433.8	1449.7	1451.3	1417.9	1339.7	1197.2	999.7	981.2	796.4
17.5°	1465.6	1470.4	1488.2	1515.2	1537.2	1531.1	1461.5	1316.1	1103.4	1072.5	857.2
20°	1508.9	1517.2	1530.8	1567.7	1606.5	1624.3	1575.4	1438.0	1206.1	1186.4	924.3
22.5°	1598.9	1610.7	1615.4	1634.2	1667.3	1698.8	1676.5	1554.7	1318.7	1292.0	995.5
25°	1751.2	1763.7	1750.3	1745.8	1756.7	1772.2	1767.5	1664.7	1424.9	1386.7	1063.0
27.5°	1949.7	1951.3	1925.2	1900.4	1873.7	1865.7	1851.1	1762.4	1517.2	1485.3	1130.7
30°	2162.8	2155.2	2111.9	2067.1	2021.9	1977.4	1935.4	1856.5	1619.9	1583.3	1197.2
32.5°	2360.7	2356.5	2308.5	2238.8	2162.5	2120.5	2035.6	1951.6	1729.9	1694.6	1265.6
35°	2508.9	2514.9	2462.1	2386.1	2302.8	2265.6	2158.4	2051.5	1843.8	1805.3	1340.0
37.5°	2614.1	2611.0	2564.2	2498.4	2425.2	2392.8	2301.8	2160.6	1966.3	1929.4	1421.4
40°	2651.7	2649.8	2615.1	2567.1	2520.6	2509.2	2451.9	2278.3	2106.5	2063.3	1519.4
42.5°	2627.8	2632.0	2609.1	2596.0	2587.4	2595.7	2601.1	2432.5	2259.5	2219.8	1625.6
45°	2554.7	2552.4	2549.3	2570.6	2618.9	2673.3	2748.7	2578.2	2425.9	2394.1	1768.1
47.5°	2423.9	2439.9	2447.8	2506.6	2612.2	2741.1	2918.5	2773.5	2667.3	2639.6	1985.3
50°	2241.1	2253.8	2300.9	2405.5	2562.9	2766.5	3084.6	3092.8	3069.9	3018.1	2221.3
52.5°	1955.4	1975.2	2072.2	2264.0	2461.8	2756.0	3185.1	3366.7	3396.9	3358.1	2453.8
55°	1635.8	1663.5	1765.9	2017.5	2322.5	2698.8	3254.4	3525.4	3645.9	3610.0	2677.8
57.5°	1322.8	1352.1	1457.4	1701.0	2079.5	2572.2	3299.9	3702.2	3985.0	3938.2	2956.4
60°	991.4	1021.9	1112.3	1363.2	1733.4	2324.7	3269.0	3855.5	4323.7	4303.7	3235.3
62.5°	639.6	673.3	751.9	959.6	1332.4	1986.6	3104.0	3940.1	4617.0	4592.8	3438.9
65°	389.6	393.4	436.7	595.7	911.9	1538.1	2726.4	3827.9	4771.6	4764.2	3500.9
67.5°	251.9	257.9	277.7	356.9	546.7	1068.4	2180.0	3457.3	4681.2	4678.7	3372.7
70°	212.8	214.7	223.6	240.8	317.7	647.9	1530.8	2866.7	4338.0	4338.0	3064.5
72.5°	190.2	192.7	195.9	201.3	226.8	367.0	913.5	2231.5	3745.5	3770.3	2608.4
75°	172.7	172.1	174.0	174.9	193.4	239.8	472.3	1650.4	2897.5	2847.9	1889.0
77.5°	147.9	148.9	147.9	152.0	170.8	182.6	239.8	1107.5	1756.0	1691.8	948.1
80°	121.5	123.1	124.7	127.2	146.0	138.7	144.1	504.8	649.5	635.8	292.9
82.5°	91.3	93.5	96.1	102.1	114.8	91.6	91.0	215.6	234.4	214.7	107.8
85°	36.9	43.6	65.8	71.9	72.2	50.3	56.0	90.0	95.7	93.5	42.3
87.5°	8.6	10.2	21.3	32.1	29.6	18.8	20.7	29.3	33.4	30.9	14.3
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°	544.8	544.8	544.8	544.8	544.8	544.8	544.8	544.8	544.8	544.8	544.8
2.5°	555.7	544.5	525.4	510.8	500.3	491.1	485.4	481.9	480.6	480.3	480.6
5°	574.4	554.7	524.5	505.4	494.9	488.9	485.4	485.0	485.4	485.7	484.7
7.5°	600.2	571.9	532.4	514.6	506.7	502.2	500.6	500.0	500.3	500.0	500.0
10°	634.5	595.7	548.0	529.6	522.9	517.8	515.3	513.7	512.4	511.1	510.5
12.5°	672.4	622.1	564.9	547.1	537.5	529.6	523.8	519.7	516.9	514.0	513.4
15°	714.7	650.1	583.6	558.8	545.2	533.4	523.5	516.9	511.8	507.6	507.3
17.5°	755.1	676.5	596.4	564.2	544.2	527.7	514.6	505.4	499.0	493.6	493.0
20°	798.3	701.6	602.1	560.7	534.7	514.6	497.4	486.3	479.0	473.0	472.0
22.5°	841.9	723.0	601.5	549.6	518.1	494.6	476.5	464.7	456.1	450.1	447.8
25°	883.6	740.1	593.5	531.8	495.2	470.7	452.3	441.5	433.8	426.5	426.5
27.5°	921.1	750.3	578.6	510.2	471.7	445.9	431.3	421.4	414.4	409.7	406.8
30°	958.0	755.1	558.2	482.8	446.9	424.9	413.2	407.4	401.1	395.7	395.0
32.5°	991.1	754.1	532.8	456.1	423.3	407.8	403.0	398.5	391.9	384.2	382.3
35°	1023.2	747.8	502.5	426.8	403.6	397.6	398.8	392.5	380.4	370.9	369.3
37.5°	1058.2	736.3	469.5	403.0	387.1	392.8	396.0	382.0	362.3	347.3	343.8
40°	1098.6	723.3	435.1	379.1	374.0	388.4	388.4	362.6	335.6	326.3	323.8
42.5°	1146.0	712.5	406.5	359.1	363.2	377.5	375.9	336.8	325.7	320.9	319.7
45°	1221.0	708.6	376.9	341.6	354.3	364.8	351.8	327.9	321.6	317.7	316.5
47.5°	1339.7	713.1	350.8	328.6	344.1	352.1	324.7	321.9	317.4	312.0	311.4
50°	1449.7	709.0	332.4	321.2	335.2	336.8	313.6	314.6	312.0	306.0	304.7
52.5°	1539.7	695.9	320.6	317.4	327.6	310.1	303.1	306.6	305.7	298.0	296.8
55°	1638.7	688.0	314.9	317.4	322.5	286.9	293.3	298.3	297.1	291.7	291.3
57.5°	1758.6	689.6	310.7	318.4	317.4	275.1	283.4	289.4	289.1	287.5	287.5
60°	1881.3	690.2	304.4	318.1	311.4	265.9	273.2	281.8	282.4	283.4	283.4
62.5°	1922.0	662.5	292.0	312.3	298.0	257.0	263.7	275.4	274.8	277.3	277.7
65°	1846.0	585.9	273.5	299.3	280.8	250.6	256.4	267.2	263.7	270.4	271.6
67.5°	1680.3	484.7	244.9	275.8	261.8	244.0	251.6	255.7	249.4	262.4	262.7
70°	1452.3	378.5	208.6	242.4	240.1	237.0	247.8	241.4	232.5	248.4	245.2
72.5°	1214.4	289.1	166.7	198.2	211.2	226.5	241.1	223.0	210.6	215.3	209.6
75°	912.2	213.7	133.9	155.2	175.9	211.5	235.0	200.7	181.6	177.2	175.9
77.5°	465.0	139.6	100.2	116.1	132.0	191.2	226.8	174.6	150.4	143.4	140.3
80°	166.0	86.8	70.6	80.2	89.1	164.4	198.2	144.4	116.7	115.5	116.7
82.5°	77.0	56.0	47.4	52.5	52.8	109.7	151.1	107.8	88.7	134.9	113.9
85°	33.1	28.0	26.7	26.1	24.2	49.0	84.9	57.9	90.3	40.4	37.2
87.5°	9.9	11.1	9.9	7.3	5.4	5.4	8.6	3.2	2.2	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)