

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: P647239

Luminaire Tested: **GALN-SA1D-835-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647239
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-835-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6246 lumens
Efficiency: N/A
Efficacy: 96.1 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

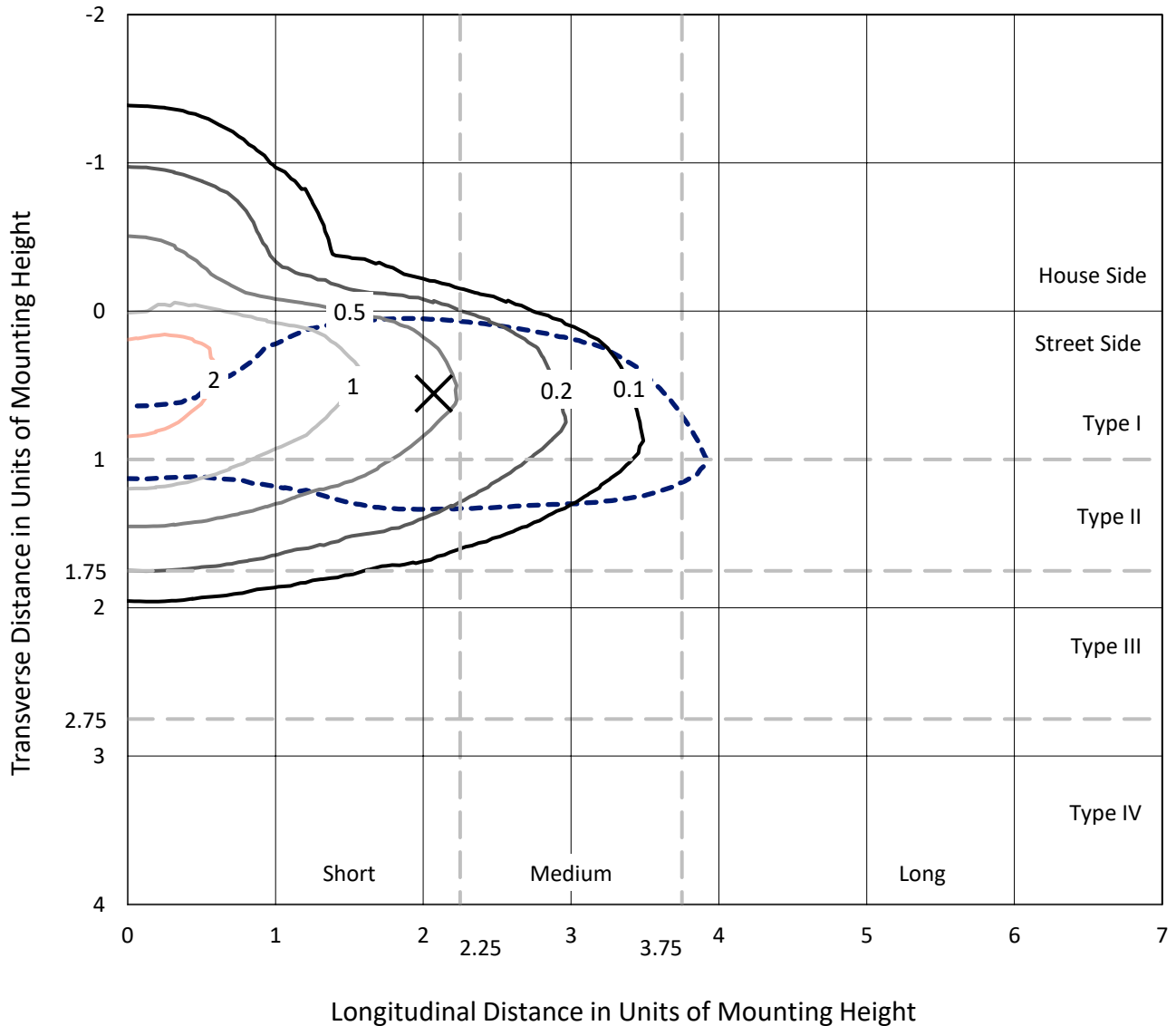
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647239
 CATALOG NUMBER: GALN-SA1D-835-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

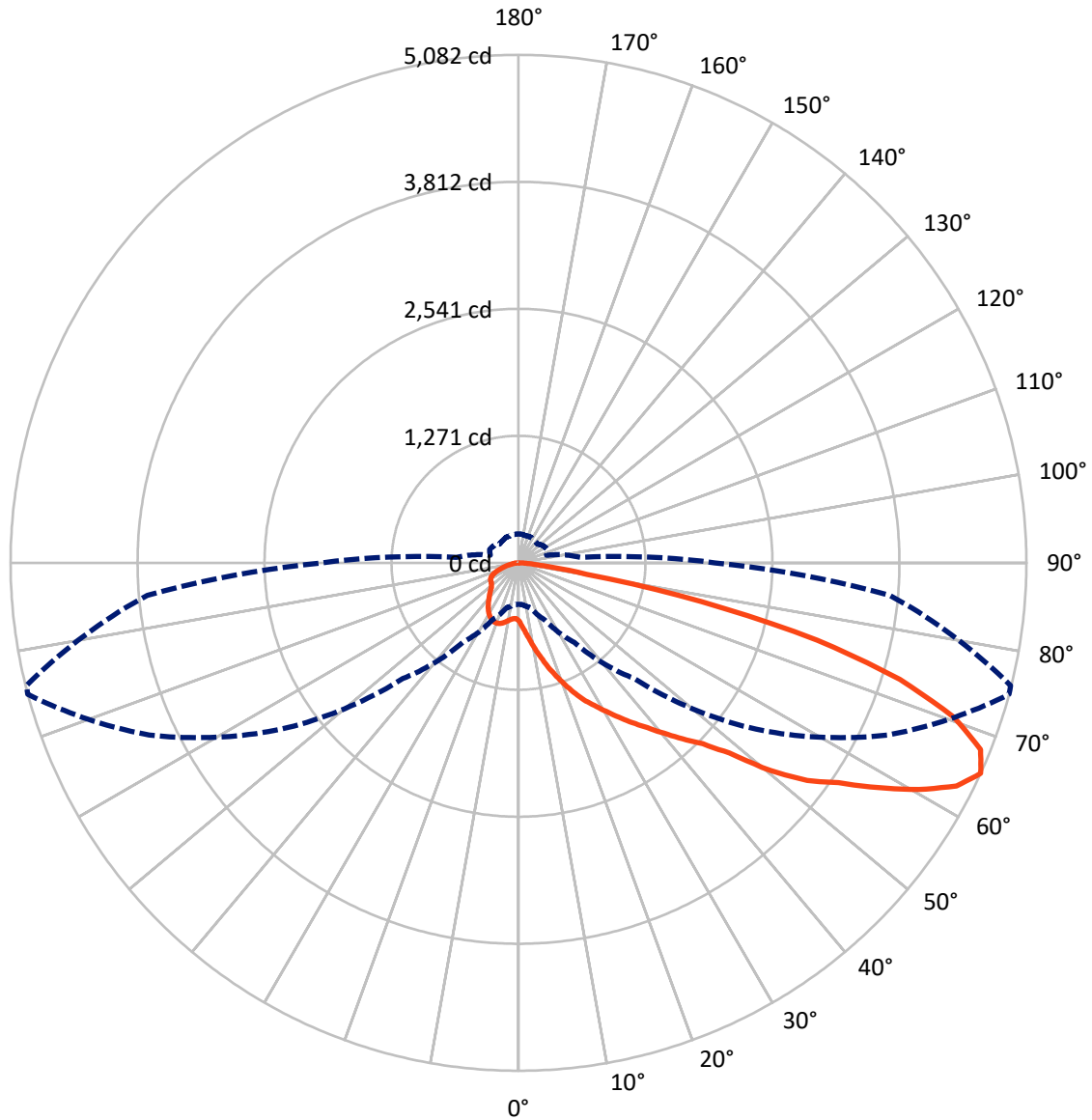
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

REPORT NUMBER: P647239
CATALOG NUMBER: GALN-SA1D-835-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P647239
 CATALOG NUMBER: GALN-SA1D-835-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1050.0	0.0	1050.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	5196.0	0.0	5196.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	6246.0	0.0	6246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	1.1
10°-20°	276.2	4.4
20°-30°	533.5	8.5
30°-40°	866.5	13.9
40°-50°	1192.0	19.1
50°-60°	1407.3	22.5
60°-70°	1233.0	19.7
70°-80°	588.7	9.4
80°-90°	78.3	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°	6246.0	100.0
0°-180°	6246.0	100.0

Coefficient of Utilization

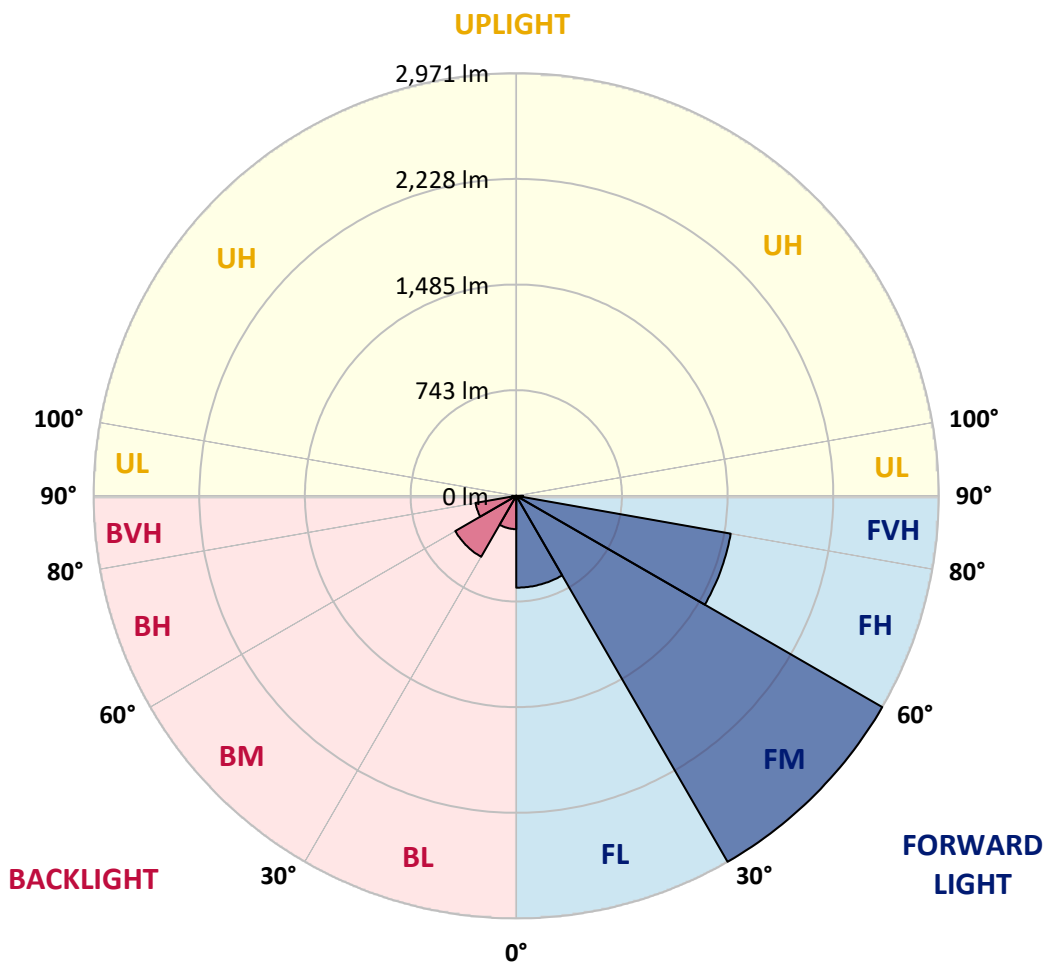


REPORT NUMBER: P647239
 CATALOG NUMBER: GALN-SA1D-835-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	645.7	10.3			
FM (30°-60°)	2970.7	47.6			
FH (60°-80°)	1530.5	24.5			G1/1800
FVH (80°-90°)	49.0	0.8			G1/100
BL (0°-30°)	234.4	3.8	B1/500		
BM (30°-60°)	495.1	7.9	B1/1000		
BH (60°-80°)	291.2	4.7	B1/500		G1/500
BVH (80°-90°)	29.4	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





REPORT NUMBER: P647239
 CATALOG NUMBER: GALN-SA1D-835-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	580.4	580.4	580.4	580.4	580.4	580.4	580.4	580.4	580.4	580.4	580.4
2.5°	771.1	766.0	760.5	745.7	729.8	711.7	686.1	661.3	628.4	627.4	603.1
5°	984.9	981.4	957.4	943.5	906.6	857.5	815.8	751.1	691.1	684.0	636.6
7.5°	1181.3	1168.1	1159.0	1133.9	1097.3	1034.3	953.7	866.2	766.0	756.5	677.9
10°	1329.4	1328.0	1323.3	1301.6	1274.2	1211.5	1122.0	996.7	860.8	842.2	728.0
12.5°	1440.2	1441.2	1440.5	1440.2	1420.5	1367.4	1270.4	1138.3	956.7	943.5	786.0
15°	1513.0	1523.2	1527.2	1544.2	1545.9	1510.3	1426.9	1275.2	1064.8	1045.1	848.3
17.5°	1561.1	1566.2	1585.2	1613.9	1637.3	1630.9	1556.7	1401.9	1175.2	1142.4	913.0
20°	1607.2	1616.0	1630.5	1669.8	1711.2	1730.1	1678.0	1531.6	1284.7	1263.7	984.5
22.5°	1703.0	1715.6	1720.6	1740.7	1775.9	1809.4	1785.7	1656.0	1404.6	1376.1	1060.4
25°	1865.3	1878.6	1864.3	1859.5	1871.1	1887.7	1882.6	1773.2	1517.8	1477.1	1132.2
27.5°	2076.8	2078.4	2050.7	2024.2	1995.8	1987.3	1971.7	1877.2	1616.0	1582.1	1204.3
30°	2303.7	2295.6	2249.5	2201.7	2153.6	2106.2	2061.5	1977.5	1725.4	1686.4	1275.2
32.5°	2514.4	2510.1	2458.9	2384.7	2303.4	2258.6	2168.2	2078.8	1842.6	1805.0	1348.0
35°	2672.3	2678.7	2622.5	2541.5	2452.7	2413.1	2299.0	2185.1	1963.9	1922.9	1427.3
37.5°	2784.4	2781.1	2731.3	2661.1	2583.2	2548.7	2451.7	2301.3	2094.4	2055.1	1514.0
40°	2824.4	2822.4	2785.4	2734.3	2684.8	2672.6	2611.7	2426.7	2243.8	2197.6	1618.4
42.5°	2799.0	2803.4	2779.0	2765.2	2756.0	2764.8	2770.6	2591.0	2406.7	2364.3	1731.5
45°	2721.1	2718.7	2715.4	2738.0	2789.5	2847.5	2927.7	2746.1	2583.9	2550.0	1883.3
47.5°	2581.9	2598.8	2607.2	2670.0	2782.4	2919.7	3108.7	2954.2	2841.0	2811.5	2114.6
50°	2387.1	2400.6	2450.7	2562.2	2729.9	2946.7	3285.5	3294.3	3269.9	3214.7	2366.1
52.5°	2082.9	2103.8	2207.1	2411.4	2622.2	2935.5	3392.6	3586.0	3618.2	3576.8	2613.7
55°	1742.3	1771.9	1880.9	2148.9	2473.8	2874.5	3466.4	3755.0	3883.4	3845.2	2852.2
57.5°	1409.0	1440.2	1552.3	1811.8	2215.0	2739.7	3514.9	3943.4	4244.6	4194.8	3149.0
60°	1056.0	1088.5	1184.7	1452.0	1846.4	2476.2	3482.0	4106.7	4605.4	4584.1	3446.1
62.5°	681.3	717.2	800.9	1022.1	1419.2	2116.1	3306.1	4196.8	4917.7	4892.0	3662.9
65°	415.0	419.1	465.2	634.5	971.3	1638.3	2904.0	4077.2	5082.4	5074.6	3729.0
67.5°	268.3	274.8	295.7	380.1	582.4	1137.9	2322.0	3682.5	4986.1	4983.5	3592.4
70°	226.7	228.7	238.2	256.4	338.4	690.1	1630.5	3053.5	4620.6	4620.6	3264.2
72.5°	202.6	205.3	208.7	214.5	241.6	391.0	973.0	2376.9	3989.5	4015.9	2778.3
75°	183.9	183.3	185.3	186.4	206.0	255.4	503.1	1757.9	3086.3	3033.4	2012.0
77.5°	157.5	158.6	157.5	161.9	181.9	194.5	255.4	1179.7	1870.4	1802.0	1009.9
80°	129.4	131.1	132.8	135.5	155.5	147.7	153.5	537.6	691.8	677.2	312.0
82.5°	97.2	99.6	102.3	108.8	122.3	97.6	96.9	229.7	249.7	228.7	114.9
85°	39.3	46.4	70.2	76.6	76.9	53.6	59.6	95.8	101.9	99.6	45.0
87.5°	9.2	10.8	22.7	34.2	31.5	20.0	22.0	31.2	35.5	32.9	15.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647239
 CATALOG NUMBER: GALN-SA1D-835-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	580.4	580.4	580.4	580.4	580.4	580.4	580.4	580.4	580.4	580.4	580.4
2.5°	591.9	580.0	559.7	544.1	532.9	523.0	517.0	513.3	511.9	511.5	511.9
5°	611.8	590.9	558.7	538.3	527.1	520.7	517.0	516.6	517.0	517.3	516.3
7.5°	639.2	609.1	567.1	548.2	539.6	534.9	533.2	532.6	532.9	532.6	532.6
10°	675.9	634.5	583.7	564.1	556.9	551.5	548.8	547.2	545.8	544.4	543.7
12.5°	716.2	662.7	601.7	582.7	572.5	564.1	558.0	553.6	550.5	547.5	546.8
15°	761.2	692.5	621.6	595.2	580.7	568.1	557.7	550.5	545.1	540.7	540.3
17.5°	804.3	720.6	635.2	601.0	579.7	562.0	548.2	538.3	531.6	525.8	525.1
20°	850.3	747.4	641.3	597.3	569.5	548.2	529.9	518.0	510.2	503.8	502.8
22.5°	896.8	770.1	640.7	585.4	551.9	526.8	507.5	494.9	485.8	479.4	477.0
25°	941.2	788.3	632.2	566.4	527.5	501.4	481.8	470.2	462.1	454.3	454.3
27.5°	981.1	799.2	616.2	543.4	502.4	475.0	459.4	448.9	441.5	436.4	433.3
30°	1020.4	804.3	594.5	514.3	476.0	452.6	440.0	434.0	427.2	421.4	420.8
32.5°	1055.6	803.3	567.4	485.8	450.9	434.3	429.2	424.5	417.3	409.3	407.2
35°	1089.9	796.5	535.3	454.6	429.9	423.4	424.9	418.0	405.2	395.0	393.3
37.5°	1127.1	784.3	500.0	429.2	412.3	418.4	421.8	406.8	385.9	370.0	366.2
40°	1170.1	770.4	463.5	403.8	398.4	413.7	413.7	386.2	357.4	347.6	344.9
42.5°	1220.6	758.9	433.0	382.5	386.9	402.1	400.4	358.8	346.9	341.9	340.4
45°	1300.6	754.8	401.4	363.9	377.4	388.6	374.7	349.3	342.5	338.4	337.1
47.5°	1426.9	759.5	373.6	349.9	366.5	375.1	345.9	342.9	338.1	332.3	331.7
50°	1544.2	755.1	354.0	342.2	357.0	358.8	334.0	335.0	332.3	325.9	324.6
52.5°	1640.1	741.3	341.5	338.1	349.0	330.3	322.8	326.6	325.6	317.4	316.1
55°	1745.4	732.8	335.4	338.1	343.5	305.6	312.3	317.7	316.4	310.7	310.3
57.5°	1873.1	734.5	331.0	339.1	338.1	293.1	301.8	308.3	308.0	306.2	306.2
60°	2003.9	735.2	324.2	338.8	331.7	283.2	291.0	300.1	300.8	301.8	301.8
62.5°	2047.2	705.7	311.0	332.7	317.4	273.7	280.9	293.4	292.7	295.4	295.7
65°	1966.3	624.1	291.4	318.8	299.1	266.9	273.0	284.5	280.9	288.0	289.3
67.5°	1789.8	516.3	260.9	293.7	278.8	259.9	267.9	272.4	265.6	279.5	279.8
70°	1546.9	403.2	222.2	258.2	255.8	252.4	263.9	257.1	247.7	264.6	261.2
72.5°	1293.4	308.0	177.5	211.1	225.0	241.2	256.8	237.5	224.3	229.3	223.2
75°	971.6	227.7	142.7	165.3	187.4	225.3	250.3	213.8	193.5	188.7	187.4
77.5°	495.3	148.7	106.7	123.6	140.6	203.6	241.6	186.0	160.3	152.8	149.4
80°	176.9	92.5	75.2	85.3	94.8	175.2	211.1	153.8	124.3	123.0	124.3
82.5°	82.0	59.6	50.5	55.9	56.2	116.9	160.9	114.9	94.5	143.7	121.3
85°	35.2	29.8	28.4	27.8	25.8	52.1	90.4	61.6	96.2	43.0	39.6
87.5°	10.5	11.8	10.5	7.8	5.8	5.8	9.2	3.4	2.3	1.7	1.7
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)