

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: P647233

Luminaire Tested: **GALN-SA1D-835-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3615.1 lumens
Efficiency: N/A
Efficacy: 55.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

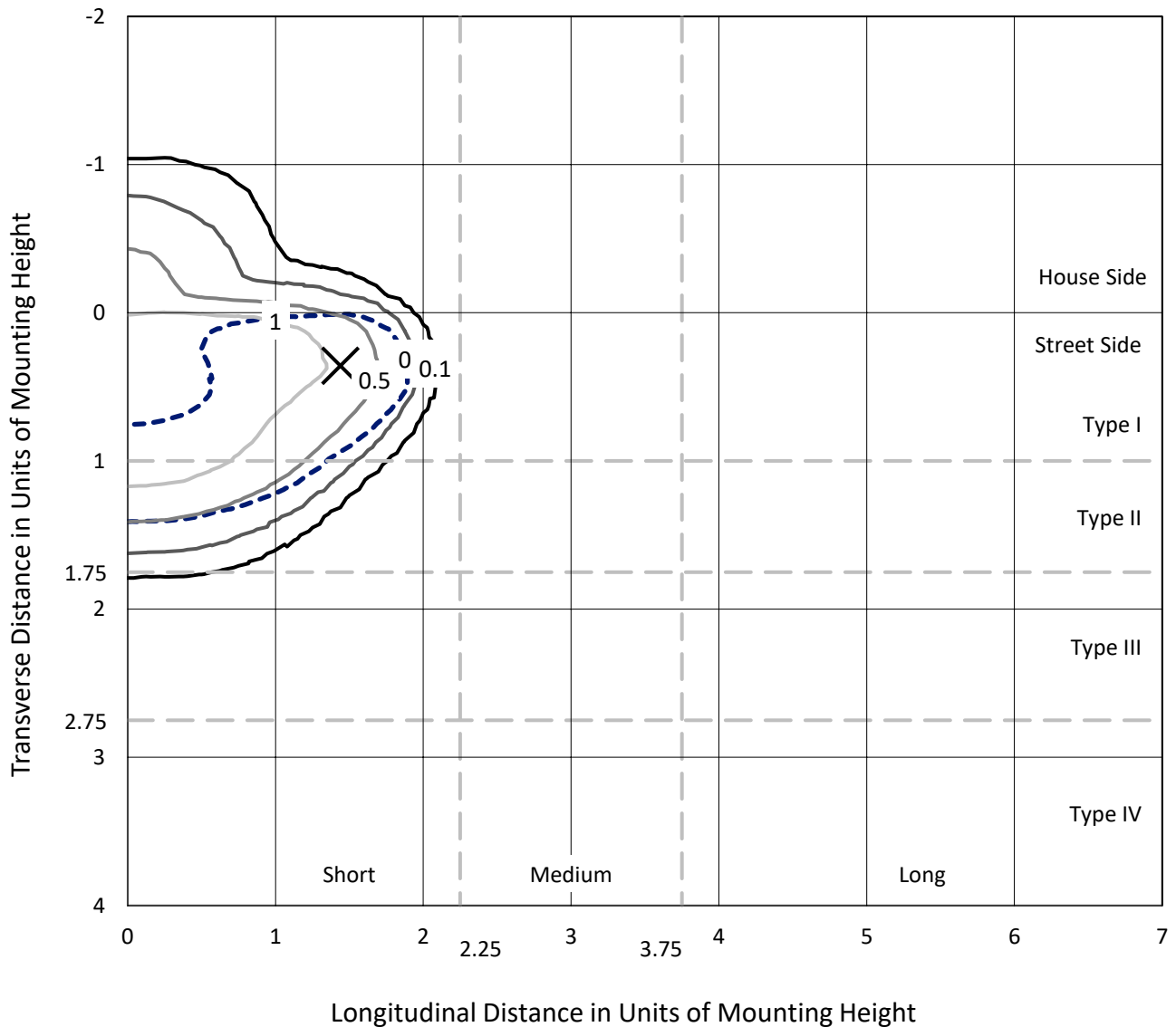
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

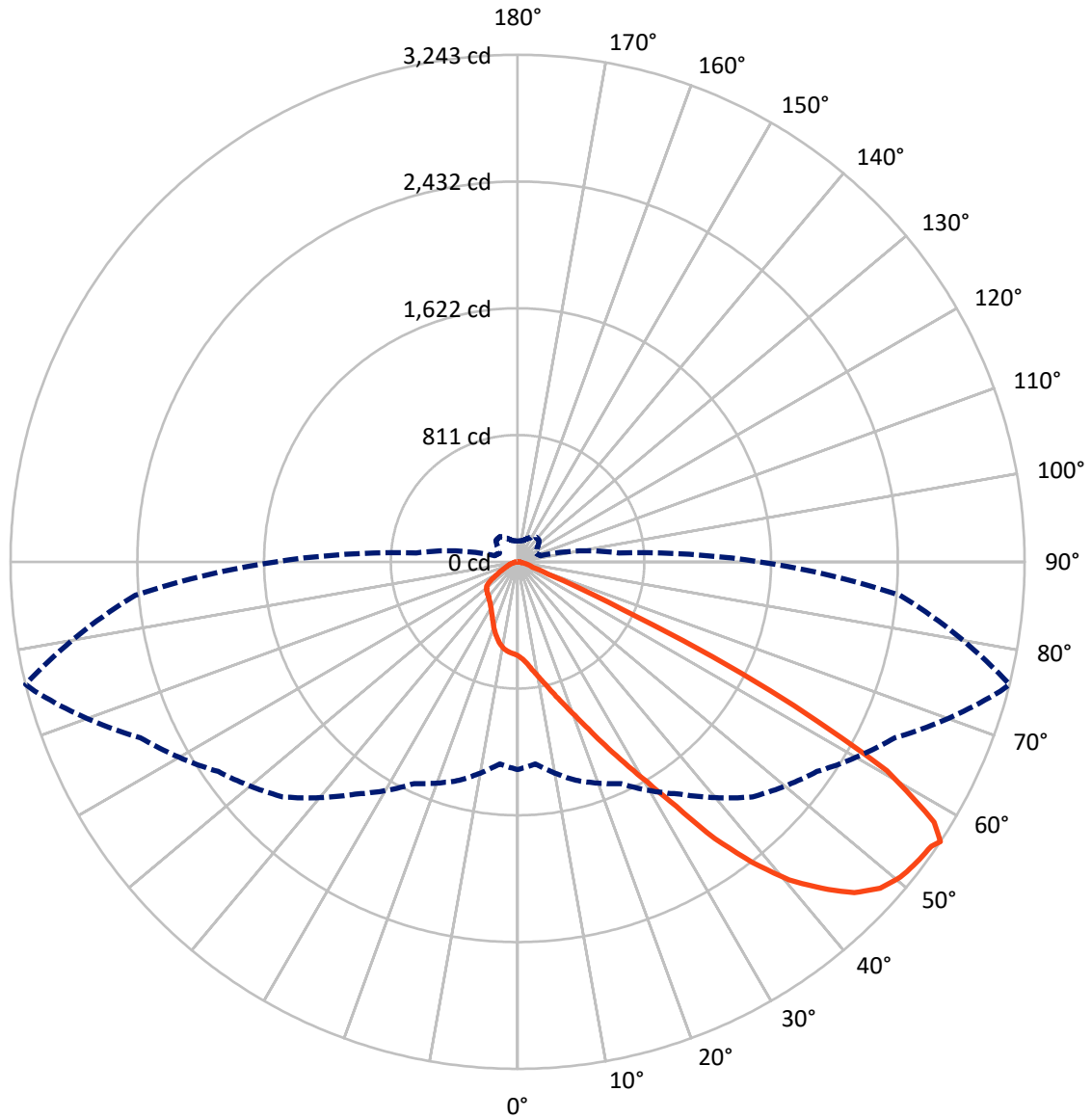
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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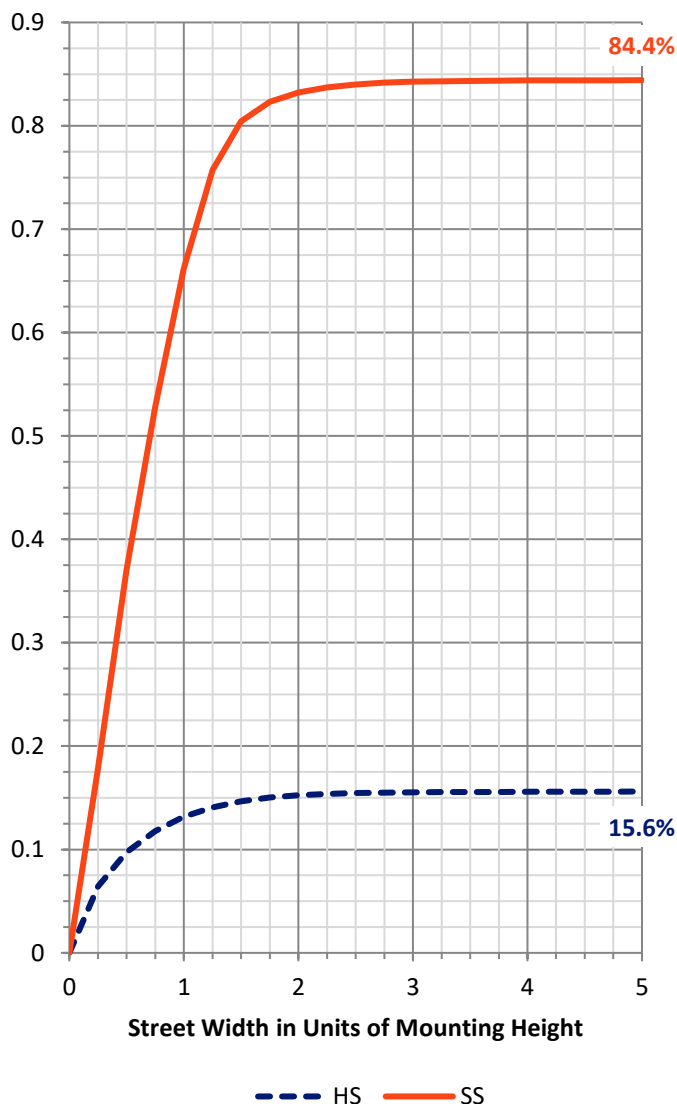
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	567.9	0.0	567.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	3047.2	0.0	3047.2
	% Fixture	84.3	0.0	84.3
Total	Lumens	3615.1	0.0	3615.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	1.7
10°-20°	194.7	5.4
20°-30°	353.1	9.8
30°-40°	609.0	16.8
40°-50°	989.3	27.4
50°-60°	1042.7	28.8
60°-70°	318.6	8.8
70°-80°	40.8	1.1
80°-90°	6.2	0.2
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°	3615.1	100.0
0°-180°	3615.1	100.0

Coefficient of Utilization

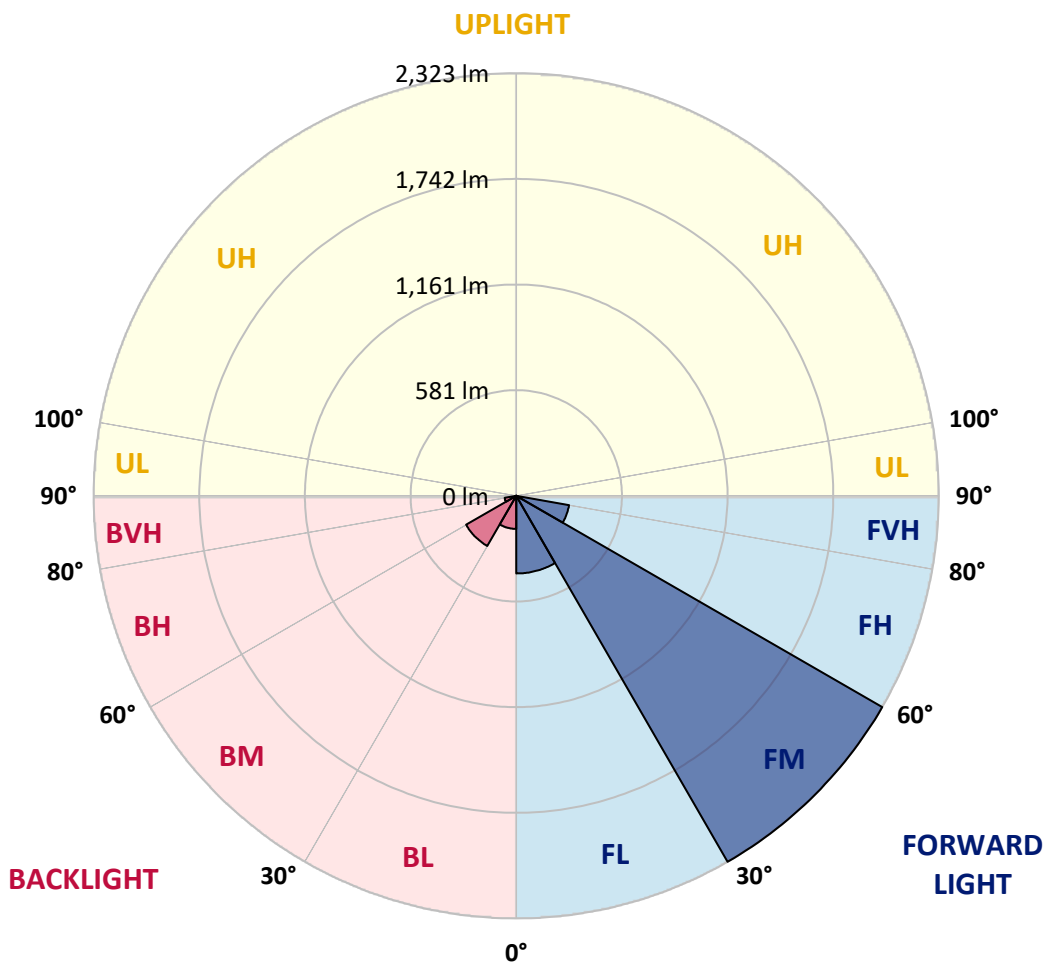


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	426.8	11.8			
FM (30°-60°)	2322.7	64.2			
FH (60°-80°)	294.7	8.2			G0/660
FVH (80°-90°)	3.0	0.1			G0/10
BL (0°-30°)	181.7	5.0	B1/500		
BM (30°-60°)	318.3	8.8	B1/1000		
BH (60°-80°)	64.8	1.8	B0/110		G0/110
BVH (80°-90°)	3.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7
2.5°	693.0	677.1	677.7	676.4	674.4	667.0	645.0	641.7	627.0	623.0	609.7
5°	776.3	762.3	770.3	758.3	747.0	740.3	704.4	687.7	664.4	655.7	637.0
7.5°	828.3	821.7	819.0	819.6	809.0	792.3	776.3	739.7	708.4	701.7	662.4
10°	853.6	849.6	853.6	851.7	856.3	858.3	830.3	808.3	762.3	751.0	689.7
12.5°	859.7	867.6	870.9	879.6	891.0	910.2	908.3	878.3	817.0	809.6	731.7
15°	874.3	881.0	877.6	891.6	913.0	945.6	962.9	958.2	892.3	878.9	780.3
17.5°	887.6	875.6	887.0	914.9	936.2	986.3	1028.2	1047.6	974.2	958.9	825.0
20°	905.6	902.3	900.3	914.3	952.3	1018.9	1102.2	1137.5	1066.2	1050.2	888.9
22.5°	960.3	960.9	959.6	938.9	966.2	1041.5	1166.8	1254.1	1176.1	1162.8	961.6
25°	1032.2	1023.5	1016.9	1000.2	996.9	1062.2	1232.1	1396.7	1308.1	1298.8	1040.2
27.5°	1108.2	1108.2	1088.2	1072.9	1051.6	1113.5	1292.1	1535.3	1467.3	1454.7	1108.9
30°	1190.8	1195.5	1192.8	1160.2	1146.9	1169.5	1353.4	1712.6	1649.9	1634.0	1222.1
32.5°	1312.8	1302.8	1314.1	1286.8	1247.5	1267.4	1450.0	1871.2	1887.2	1864.6	1370.7
35°	1474.0	1468.0	1460.7	1416.1	1369.4	1385.4	1586.7	2066.4	2185.0	2173.8	1520.7
37.5°	1618.6	1615.3	1609.3	1578.7	1524.7	1544.0	1741.9	2269.7	2475.6	2438.3	1732.6
40°	1770.6	1788.5	1769.3	1741.9	1692.6	1735.3	1924.5	2390.3	2720.1	2674.9	1894.5
42.5°	1976.4	1962.5	1971.1	1921.2	1894.5	1941.1	2107.8	2510.9	2910.1	2856.1	2066.4
45°	2195.7	2196.4	2173.1	2157.1	2087.8	2138.4	2220.4	2577.6	3061.4	3019.3	2196.4
47.5°	2336.3	2335.7	2361.0	2386.3	2315.0	2265.1	2297.0	2640.8	3139.3	3120.0	2243.7
50°	2314.3	2321.0	2353.6	2448.3	2485.6	2418.3	2369.0	2622.2	3174.6	3172.6	2284.3
52.5°	2013.2	2035.1	2089.7	2226.4	2414.3	2497.6	2444.3	2656.9	3192.0	3195.3	2345.0
55°	1532.6	1544.7	1648.6	1814.5	2022.5	2307.7	2414.3	2684.2	3205.3	3211.3	2418.3
56°	1329.5	1297.4	1447.4	1565.3	1813.9	2125.8	2338.4	2662.8	3197.3	3243.3	2454.9
57.5°	1003.6	982.3	1103.6	1250.8	1490.0	1819.2	2102.4	2562.2	3143.3	3142.6	2402.3
60°	610.4	589.1	682.4	769.0	903.0	1120.2	1420.8	2040.4	2657.5	2713.5	1945.1
62.5°	363.2	376.5	468.5	521.1	564.4	587.1	735.0	1212.8	1773.3	1813.2	1206.8
65°	241.9	246.6	315.9	402.5	421.8	335.8	299.2	491.1	769.0	744.3	497.8
67.5°	149.2	160.0	211.9	302.6	335.2	245.2	142.0	183.2	211.9	211.9	143.9
70°	90.6	96.0	141.3	205.9	229.9	157.9	103.3	103.3	101.9	100.0	86.0
72.5°	43.3	46.7	72.0	105.9	108.0	83.3	79.9	87.3	85.3	84.6	71.3
75°	18.6	20.0	25.3	33.4	38.0	35.3	48.6	62.6	64.7	62.6	51.3
77.5°	6.0	6.7	9.3	12.0	12.7	15.3	20.7	26.0	30.0	28.0	25.3
80°	0.7	1.3	2.7	6.0	9.3	12.0	15.3	17.3	19.3	19.3	18.0
82.5°	0.7	0.7	2.7	5.3	8.7	11.4	14.6	16.7	19.3	20.0	18.6
85°	0.0	0.7	2.0	4.7	7.4	7.4	6.7	6.7	4.7	4.7	4.7
87.5°	0.0	0.0	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3
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°	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7
2.5°	607.1	605.7	587.7	576.4	570.4	558.4	551.1	545.8	541.8	537.1	537.8
5°	615.0	610.4	580.4	559.8	535.1	521.8	510.4	501.1	495.1	493.8	491.1
7.5°	637.8	613.1	567.8	530.4	499.1	485.8	475.8	469.8	472.5	466.4	471.1
10°	655.1	618.4	552.4	498.5	467.1	457.1	451.8	456.5	463.1	460.5	457.1
12.5°	676.4	623.7	527.7	467.8	438.5	431.1	440.5	449.1	462.4	467.8	461.1
15°	700.4	629.8	496.4	432.5	413.8	419.8	435.8	451.2	464.5	471.1	475.1
17.5°	729.7	627.7	465.8	404.5	390.5	407.8	427.1	441.1	461.1	471.1	468.5
20°	757.0	621.1	431.8	376.5	377.2	393.1	409.2	431.8	442.5	455.8	451.2
22.5°	783.0	609.1	396.5	357.2	357.2	381.9	389.9	404.5	413.8	420.5	419.8
25°	819.6	586.4	367.1	338.5	346.6	362.5	369.2	373.8	369.8	375.1	375.8
27.5°	845.6	563.1	343.2	321.9	336.5	348.5	346.6	343.8	334.5	327.2	331.8
30°	873.6	535.8	322.5	310.5	318.5	329.2	321.2	313.2	298.6	286.6	287.2
32.5°	913.6	523.1	304.5	297.2	307.9	309.2	300.5	288.5	273.9	262.5	261.9
35°	988.2	515.1	289.2	288.5	290.6	291.2	282.5	267.9	261.9	252.6	255.9
37.5°	1062.8	511.1	278.5	275.9	275.2	275.9	265.9	251.9	263.2	262.5	263.9
40°	1158.1	529.1	263.2	259.9	260.6	260.6	247.9	243.9	263.9	265.9	266.5
42.5°	1254.8	551.8	253.2	242.6	245.2	245.2	238.6	233.9	247.9	234.6	232.6
45°	1338.8	585.1	242.6	225.3	231.9	235.2	233.3	225.3	216.6	193.9	193.9
47.5°	1366.1	614.4	229.9	208.6	213.9	228.6	222.6	205.9	190.6	171.9	170.6
50°	1414.0	646.4	219.9	189.3	200.6	218.5	212.6	195.9	178.6	165.3	165.9
52.5°	1463.3	683.0	201.2	166.6	180.6	210.5	210.5	191.9	165.3	155.9	154.6
55°	1537.3	681.7	168.0	136.6	161.3	198.6	201.9	171.9	147.9	140.6	140.6
56°	1548.0	651.1	151.3	127.9	152.6	195.3	195.9	166.6	141.3	133.3	133.3
57.5°	1468.0	587.7	132.6	117.3	142.0	189.3	190.0	161.9	135.9	124.6	123.2
60°	1129.5	397.8	110.6	104.6	128.6	170.6	173.9	147.3	119.3	110.6	109.9
62.5°	637.8	220.6	97.3	94.7	110.6	145.2	155.3	128.6	101.3	96.6	98.0
65°	291.2	121.3	82.0	76.7	89.3	112.0	125.3	105.9	83.3	78.0	78.0
67.5°	106.6	82.6	70.0	60.6	62.6	72.7	81.3	68.7	55.3	47.3	49.3
70°	76.0	69.3	61.3	52.6	48.6	47.3	46.7	38.7	27.3	21.3	22.6
72.5°	61.3	57.3	51.3	44.6	38.0	32.0	27.3	20.0	12.7	8.7	8.0
75°	44.0	42.0	37.3	32.0	26.6	22.6	18.6	12.7	6.7	3.4	3.4
77.5°	22.6	22.6	22.0	20.0	16.7	13.3	10.6	7.4	4.0	1.3	1.3
80°	17.3	18.6	19.3	17.3	15.3	12.0	8.7	5.3	2.7	0.7	0.7
82.5°	16.7	19.3	20.7	18.0	15.3	11.4	8.7	5.3	2.7	0.7	0.7
85°	4.0	4.0	6.0	6.7	8.7	9.3	7.4	4.7	2.0	0.7	0.7
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.0
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)