

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: P647236

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
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-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4053.6 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

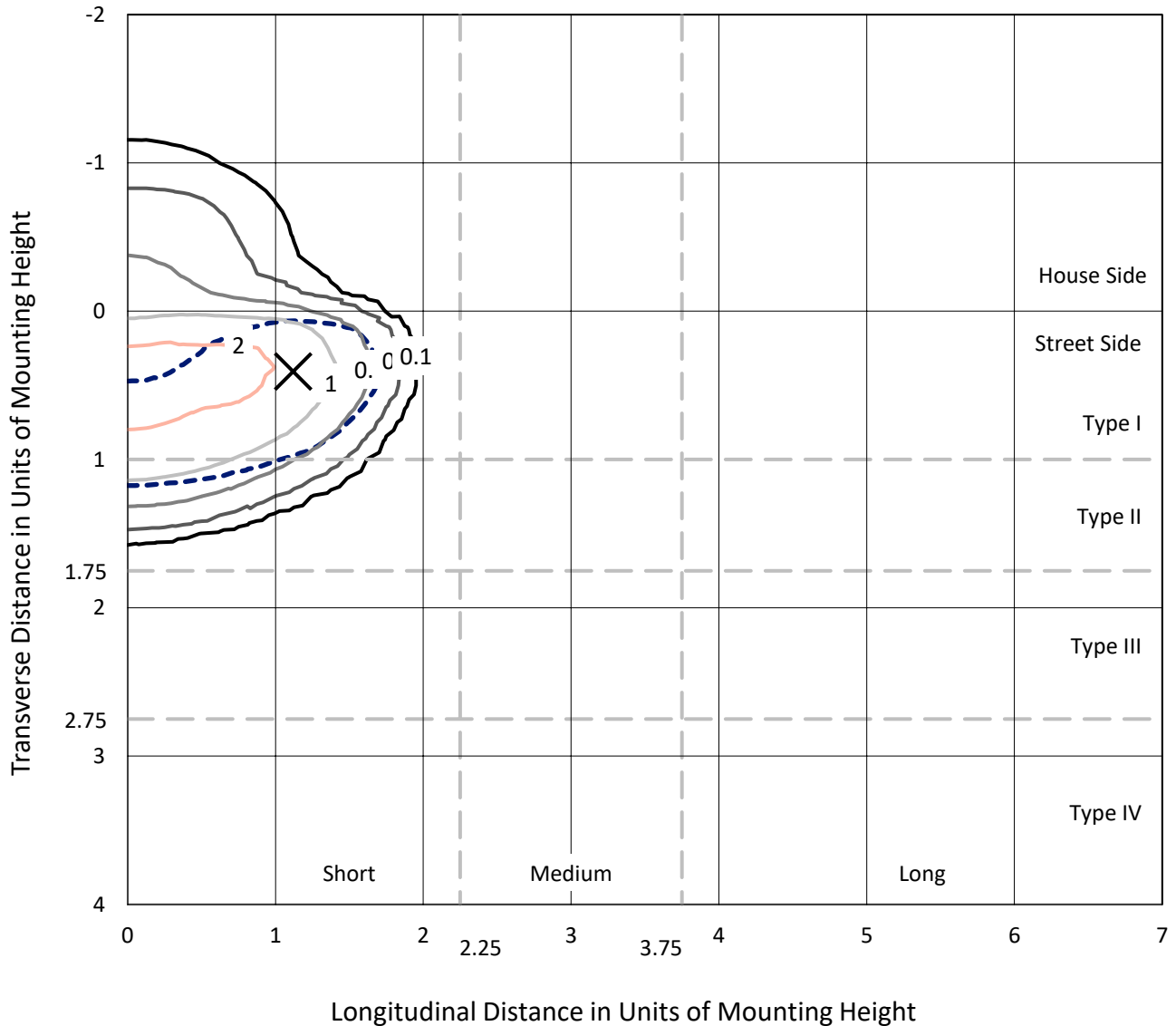
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

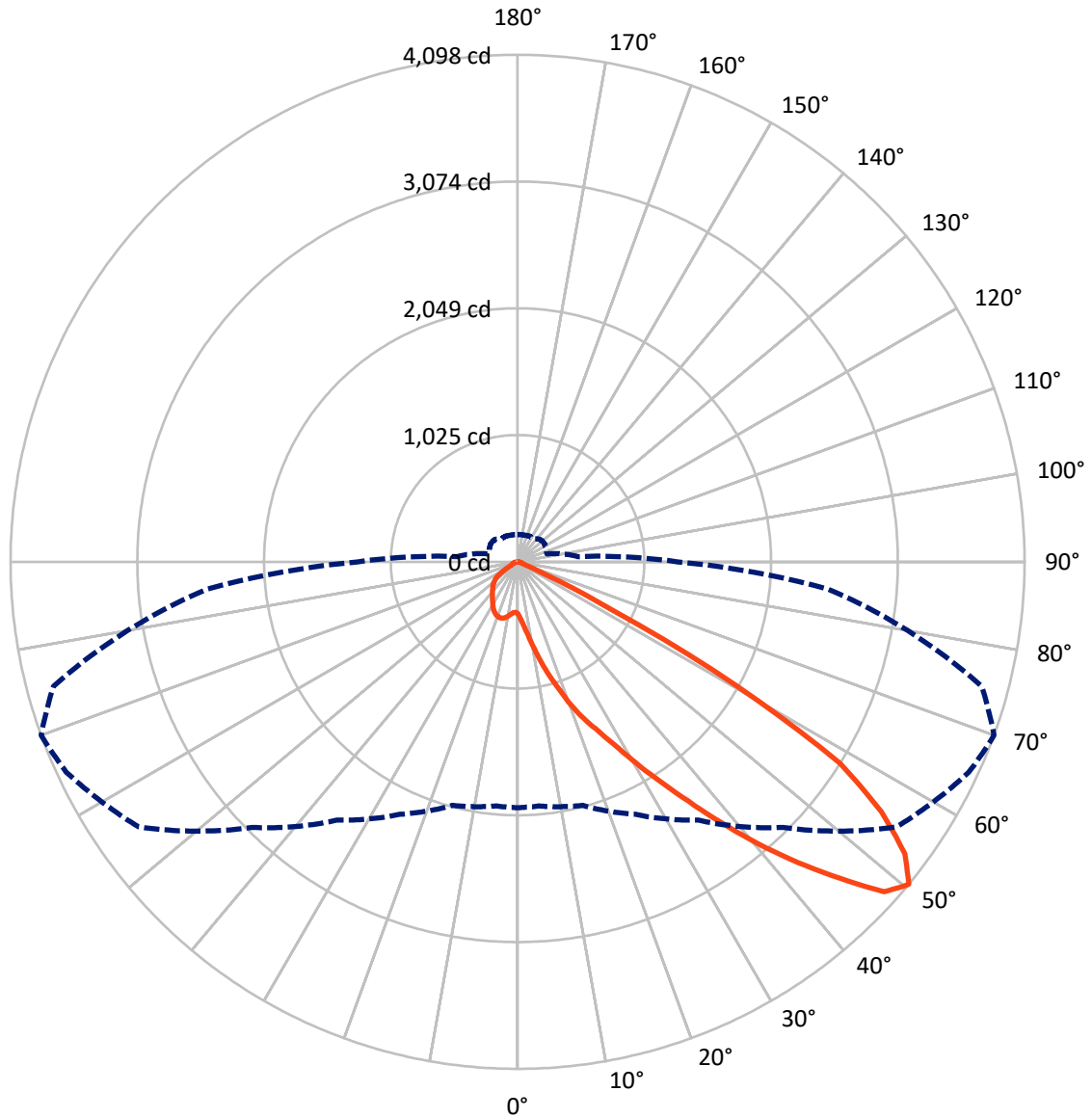
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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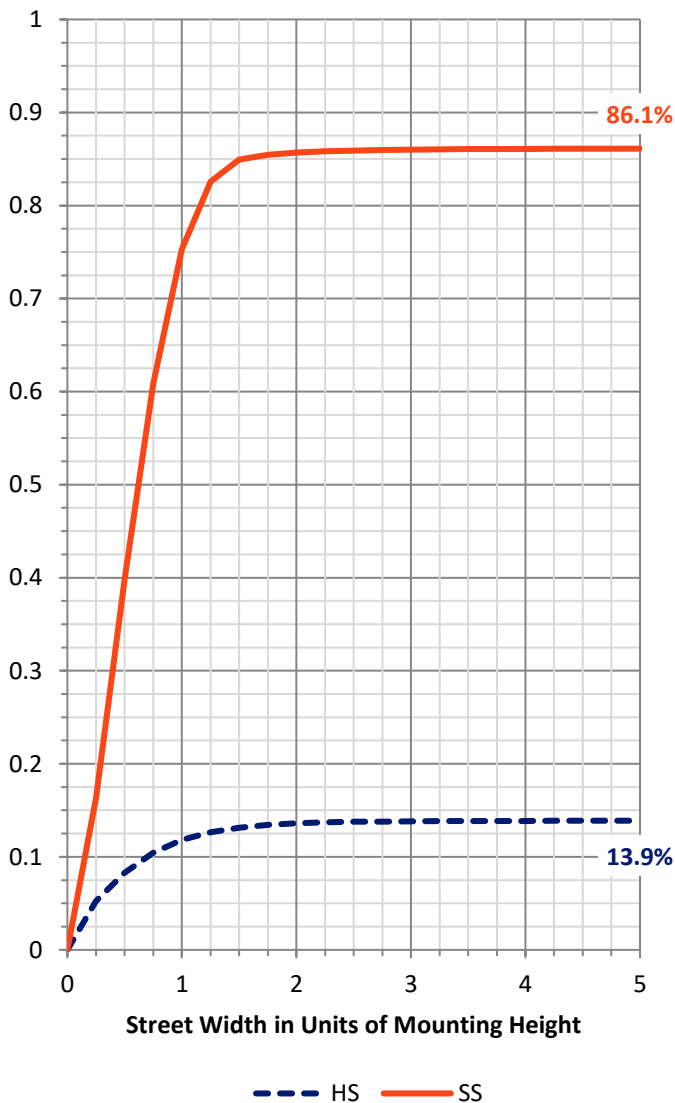
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	566.1	0.0	566.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3487.5	0.0	3487.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	4053.6	0.0	4053.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	1.3
10°-20°	236.2	5.8
20°-30°	495.5	12.2
30°-40°	854.0	21.1
40°-50°	1248.1	30.8
50°-60°	972.1	24.0
60°-70°	164.7	4.1
70°-80°	22.6	0.6
80°-90°	5.9	0.1
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°	4053.6	100.0
0°-180°	4053.6	100.0

Coefficient of Utilization



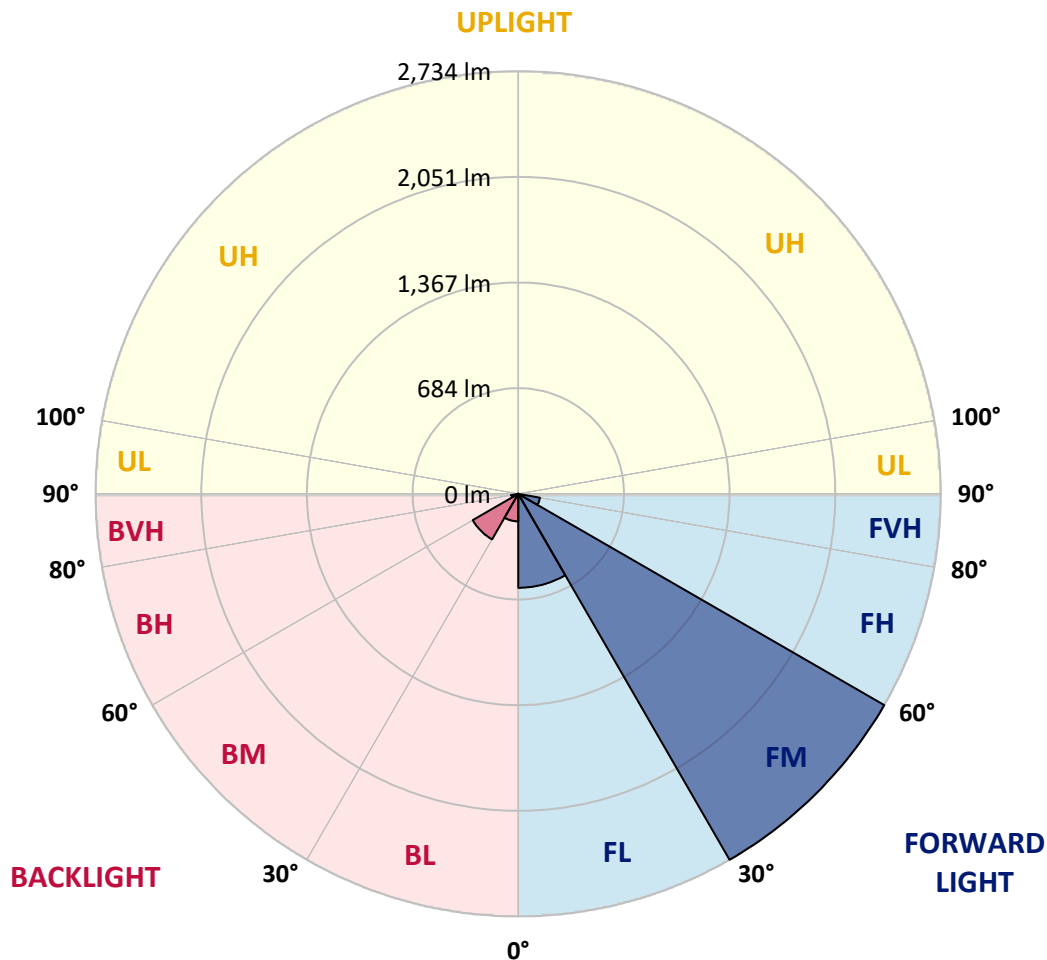
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	608.1	15.0			
FM (30°-60°)	2734.1	67.4			
FH (60°-80°)	142.6	3.5			G0/660
FVH (80°-90°)	2.7	0.1			G0/10
BL (0°-30°)	178.1	4.4	B1/500		
BM (30°-60°)	340.1	8.4	B1/1000		
BH (60°-80°)	44.7	1.1	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	419.8	419.8	419.8	419.8	419.8	419.8	419.8	419.8	419.8	419.8	419.8
2.5°	549.8	545.8	537.1	521.2	514.5	498.5	489.2	471.2	459.9	447.2	433.2
5°	774.5	753.8	741.1	723.1	670.5	637.8	583.8	537.8	516.5	493.2	461.2
7.5°	1006.4	993.0	975.7	937.0	901.1	833.1	740.4	639.2	595.8	555.9	492.5
10°	1198.3	1161.0	1159.0	1130.3	1091.0	1009.7	898.4	772.4	695.1	636.5	537.1
12.5°	1332.3	1298.3	1313.6	1310.3	1273.6	1198.9	1070.4	903.7	823.1	731.8	583.2
15°	1454.2	1440.3	1435.6	1431.6	1416.9	1361.6	1246.3	1063.7	947.0	837.1	635.2
17.5°	1573.5	1537.5	1554.9	1558.2	1556.8	1506.9	1398.9	1215.6	1078.3	948.4	689.8
20°	1679.5	1682.8	1659.5	1654.8	1650.8	1648.8	1543.5	1366.3	1239.6	1065.0	761.1
22.5°	1815.5	1792.1	1812.8	1799.5	1773.5	1757.4	1676.8	1499.5	1379.6	1205.7	833.7
25°	1976.1	1994.7	1946.1	1940.7	1912.1	1856.8	1784.1	1648.8	1514.2	1336.3	912.4
27.5°	2174.0	2141.3	2128.7	2099.4	2047.4	2024.1	1938.7	1802.8	1676.8	1473.5	988.4
30°	2344.0	2335.3	2272.0	2237.3	2192.0	2191.3	2072.1	2011.4	1888.8	1688.9	1093.0
32.5°	2482.6	2444.6	2421.3	2397.2	2360.6	2370.6	2270.0	2238.0	2114.7	1888.8	1216.3
35°	2575.2	2547.9	2533.9	2497.2	2486.6	2531.2	2489.2	2475.9	2374.6	2170.0	1360.9
37.5°	2604.6	2613.2	2610.5	2564.6	2587.2	2707.8	2761.8	2727.2	2673.9	2466.6	1517.5
40°	2630.6	2636.5	2623.2	2677.2	2741.8	2879.1	3074.4	3017.1	2997.1	2767.1	1735.4
42.5°	2645.2	2640.5	2640.5	2733.8	2831.8	3107.7	3376.3	3338.3	3323.0	3087.1	1987.4
45°	2581.9	2536.5	2585.2	2711.8	2909.1	3220.3	3617.5	3670.2	3648.2	3467.6	2282.0
47.5°	2345.3	2373.3	2400.6	2569.9	2815.1	3185.7	3765.5	3944.8	3985.5	3787.5	2475.2
50°	1987.4	1981.4	2038.1	2251.3	2549.2	3036.4	3736.9	4024.1	4098.1	3883.5	2515.9
52.5°	1445.6	1489.6	1550.9	1762.8	2116.1	2649.8	3367.0	3819.5	3918.1	3765.5	2489.2
55°	841.7	793.1	931.1	1110.3	1443.5	1998.8	2846.4	3385.6	3568.2	3550.9	2354.6
57.5°	337.2	326.6	373.9	503.9	753.1	1238.9	2070.0	2781.8	3074.4	3252.3	2069.4
60°	148.0	144.6	169.9	205.3	307.9	571.2	1132.3	1730.1	2035.4	2272.7	1424.2
62.5°	106.6	105.3	118.0	130.6	162.6	248.6	475.8	697.1	869.1	1049.7	637.8
65°	86.0	89.3	98.0	104.6	120.0	138.0	168.0	193.9	238.0	246.6	140.6
67.5°	70.0	72.7	80.6	88.0	90.7	74.6	77.3	68.0	68.0	60.7	48.6
70°	51.3	52.0	61.3	70.0	56.0	30.0	52.6	52.6	47.3	45.3	41.3
72.5°	38.0	38.7	46.0	43.3	22.0	18.6	38.7	42.7	38.7	36.6	33.4
75°	28.0	28.7	24.0	10.0	9.3	12.0	22.6	29.4	28.0	27.3	25.3
77.5°	5.3	4.0	3.4	4.7	6.7	10.0	14.6	18.0	18.6	20.0	18.6
80°	0.7	0.7	2.0	4.0	7.4	10.6	15.3	17.3	18.0	18.6	17.3
82.5°	0.0	0.7	2.0	4.0	7.4	10.0	13.3	15.3	16.7	17.3	16.7
85°	0.0	0.7	1.3	3.4	6.0	7.4	6.7	4.7	4.0	4.7	3.4
87.5°	0.0	0.0	0.7	0.7	1.3	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°	419.8	419.8	419.8	419.8	419.8	419.8	419.8	419.8	419.8	419.8	419.8
2.5°	425.2	422.5	413.2	403.2	394.6	398.5	394.6	391.2	392.5	391.2	389.9
5°	448.5	436.5	416.6	407.9	400.6	399.9	397.8	397.2	397.8	397.8	391.9
7.5°	470.5	451.2	429.9	420.5	411.9	412.6	407.9	407.9	407.2	403.9	402.5
10°	503.9	477.9	450.5	433.9	423.2	421.2	416.6	411.9	411.9	411.9	405.2
12.5°	540.5	507.9	470.5	451.2	438.6	428.5	421.2	419.8	412.6	411.2	407.9
15°	572.5	531.2	483.8	457.2	441.2	427.8	416.6	409.2	405.9	403.9	401.2
17.5°	603.8	551.2	491.2	457.2	439.9	424.5	412.6	405.9	397.8	399.2	393.8
20°	645.8	572.5	493.2	448.5	427.2	412.6	396.5	393.2	388.5	384.5	385.9
22.5°	686.5	587.8	487.2	437.9	407.2	389.9	381.9	377.9	375.9	372.6	367.9
25°	723.1	604.5	477.9	418.5	385.9	373.3	365.9	365.2	360.6	360.6	351.9
27.5°	760.4	610.5	461.9	395.9	367.2	359.9	356.6	355.2	353.2	348.6	342.6
30°	803.1	612.5	438.6	372.6	350.5	342.6	347.3	350.5	341.9	333.2	335.9
32.5°	838.4	607.8	410.5	350.5	338.6	334.6	343.9	347.3	337.2	327.9	323.2
35°	881.0	596.5	383.2	333.2	326.6	334.6	342.6	342.6	322.6	311.2	308.6
37.5°	945.7	583.8	357.9	318.6	313.9	330.6	341.2	333.9	302.6	288.6	285.2
40°	1015.0	575.8	333.2	303.9	307.2	323.9	329.9	307.2	275.2	266.6	263.9
42.5°	1115.7	559.8	311.2	291.3	301.2	314.6	314.6	273.9	261.9	257.3	256.6
45°	1241.0	548.5	291.9	280.5	292.6	295.9	285.2	256.6	247.9	246.6	247.3
47.5°	1302.3	526.5	271.9	267.9	276.6	277.3	249.2	242.6	235.3	233.3	231.9
50°	1293.0	487.2	245.9	251.3	263.2	256.6	227.2	228.6	221.9	221.3	217.9
52.5°	1227.6	425.2	219.9	232.6	245.9	226.6	209.3	208.0	208.0	199.3	195.9
55°	1088.4	342.6	188.6	204.6	220.6	190.6	186.0	184.6	181.3	173.3	171.2
57.5°	861.8	251.3	142.0	159.3	187.3	161.9	161.3	155.3	146.7	140.6	140.6
60°	512.5	144.6	89.3	97.3	123.9	131.3	146.0	143.3	128.6	119.3	116.7
62.5°	234.0	74.6	56.6	58.0	66.6	85.3	114.6	132.6	112.0	96.0	94.7
65°	78.6	55.3	46.7	44.6	46.0	51.3	68.7	94.0	89.3	74.0	71.3
67.5°	48.0	49.3	44.0	40.6	40.6	40.0	39.3	42.7	52.6	51.3	52.0
70°	41.3	45.3	40.6	36.6	35.3	33.4	28.0	23.3	20.0	23.3	24.7
72.5°	33.4	36.0	34.7	31.3	28.0	25.3	20.0	15.3	11.4	10.0	10.0
75°	24.7	26.6	28.0	24.0	21.3	18.0	14.6	10.0	6.0	4.0	4.0
77.5°	18.0	20.0	20.7	18.6	16.0	12.7	9.3	6.7	3.4	1.3	1.3
80°	15.3	18.0	20.0	18.6	16.7	12.0	8.7	4.7	2.7	0.7	0.7
82.5°	14.6	18.0	20.0	18.0	16.0	11.4	8.7	5.3	2.0	0.7	0.7
85°	3.4	4.7	6.0	7.4	8.7	8.7	6.7	4.0	2.0	0.7	0.7
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	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)