

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: P651203

Luminaire Tested: **GALN-SA1D-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651203
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4833.2 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

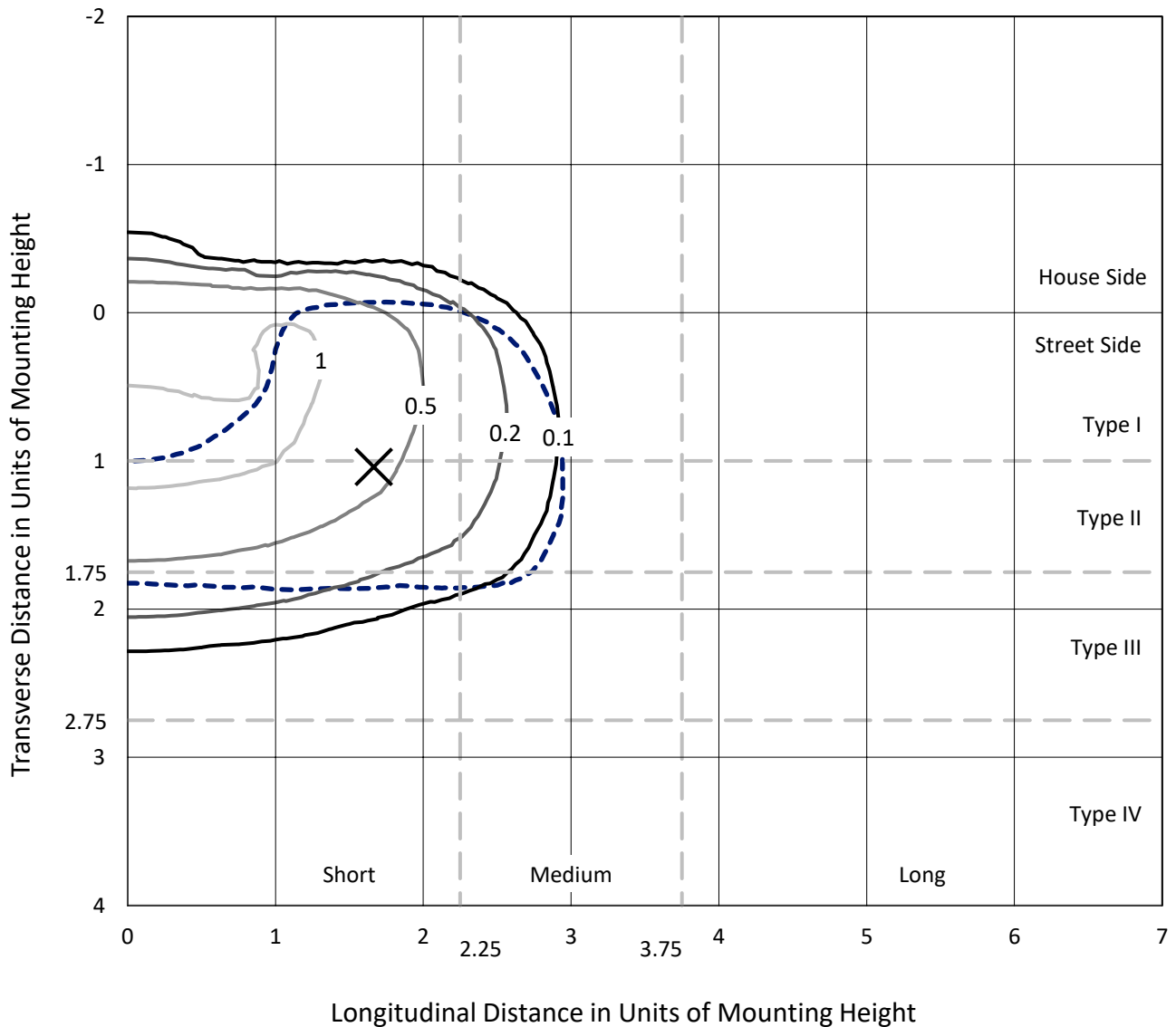
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

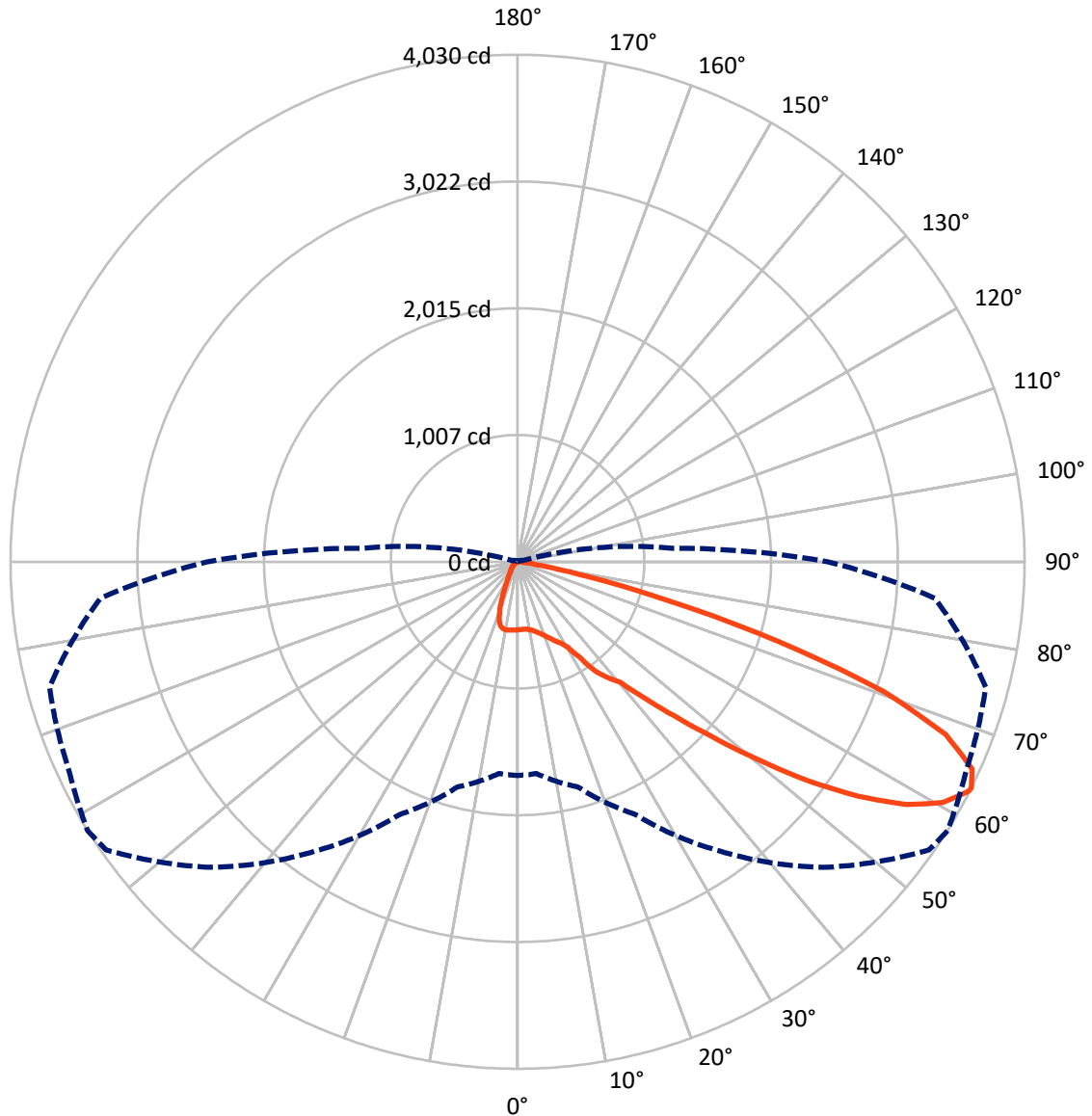
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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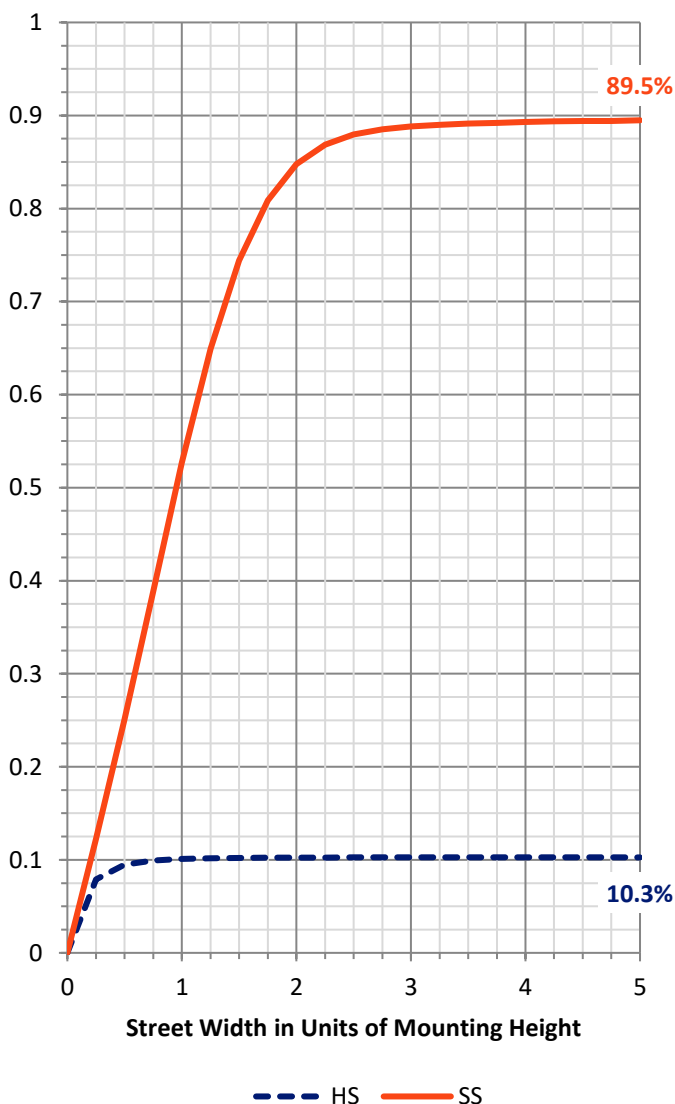
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	500.5	0.0	500.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	4332.8	0.0	4332.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	4833.2	0.0	4833.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	1.0
10°-20°	138.0	2.9
20°-30°	239.4	5.0
30°-40°	440.0	9.1
40°-50°	828.3	17.1
50°-60°	1416.7	29.3
60°-70°	1356.5	28.1
70°-80°	345.9	7.2
80°-90°	17.7	0.4
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°	4833.2	100.0
0°-180°	4833.2	100.0

Coefficient of Utilization



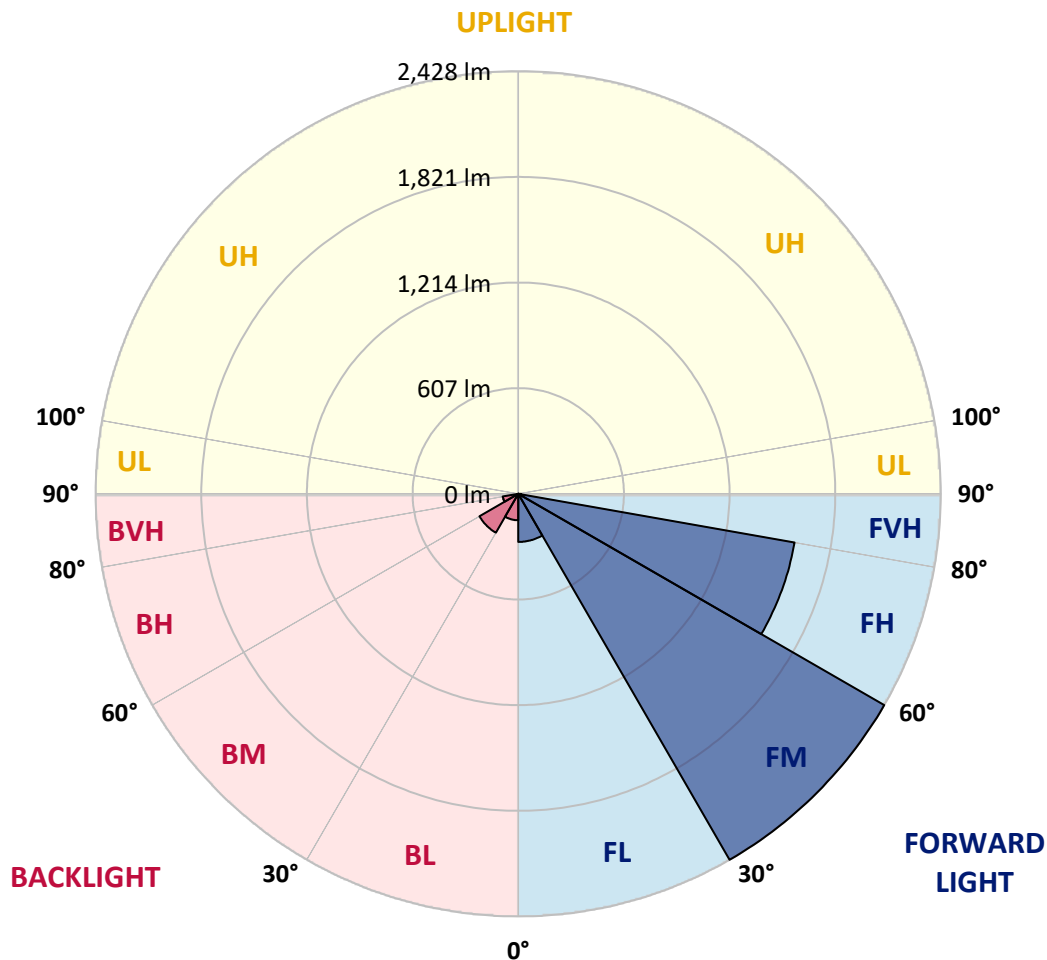
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	276.3	5.7			
FM (30°-60°)	2427.6	50.2			
FH (60°-80°)	1611.9	33.3			G1/1800
FVH (80°-90°)	17.0	0.4			G1/100
BL (0°-30°)	151.8	3.1	B1/500		
BM (30°-60°)	257.4	5.3	B1/1000		
BH (60°-80°)	90.6	1.9	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	541.1	541.1	541.1	541.1	541.1	541.1	541.1	541.1	541.1	541.1	541.1
2.5°	527.6	529.5	531.3	532.0	534.5	537.1	538.9	538.6	541.4	542.9	542.9
5°	506.5	506.5	511.2	515.6	522.9	530.2	537.1	538.6	544.0	549.1	550.9
7.5°	488.7	489.8	493.4	501.4	511.2	524.0	537.8	541.1	550.5	561.9	566.6
10°	480.3	481.1	485.8	494.2	506.5	524.0	543.3	549.5	564.1	581.9	588.4
12.5°	478.5	479.6	484.3	493.8	508.0	529.1	555.3	561.9	583.0	605.9	615.7
15°	481.8	482.5	487.3	497.5	513.1	538.2	571.3	580.4	605.5	632.1	644.8
17.5°	493.4	492.7	495.9	504.3	521.8	549.5	590.6	601.5	631.0	667.3	675.7
20°	542.9	538.2	535.3	528.0	534.9	565.5	613.8	629.9	666.2	703.4	709.2
22.5°	649.5	639.0	618.2	589.9	568.0	587.3	641.9	660.4	707.4	743.8	743.8
25°	785.2	771.8	751.1	689.2	635.7	623.3	673.6	696.9	752.2	788.9	776.9
27.5°	955.2	944.6	904.2	832.2	750.3	686.3	710.3	731.8	791.8	836.2	811.1
30°	1093.5	1088.4	1055.3	990.9	900.6	807.1	778.7	792.9	844.6	895.9	870.0
32.5°	1210.3	1210.3	1176.5	1116.4	1032.0	949.0	894.8	905.0	954.5	1013.8	965.7
35°	1338.7	1334.3	1307.1	1250.0	1155.4	1082.2	1060.0	1073.8	1118.6	1162.6	1044.4
37.5°	1473.8	1472.3	1443.9	1388.6	1311.5	1219.4	1167.3	1171.0	1193.9	1220.8	1136.4
40°	1620.4	1622.5	1585.5	1551.2	1478.5	1384.2	1284.5	1261.6	1283.0	1359.1	1306.3
42.5°	1793.6	1788.5	1772.5	1725.9	1667.4	1610.9	1491.2	1482.9	1501.8	1583.3	1526.2
45°	1994.9	2002.1	1974.4	1948.6	1909.3	1862.4	1762.3	1747.8	1768.5	1895.1	1814.0
47.5°	2196.4	2189.5	2207.4	2202.6	2223.7	2188.8	2100.3	2070.5	2120.3	2240.4	2121.1
50°	2350.0	2357.6	2394.7	2449.0	2539.6	2559.2	2474.4	2464.2	2486.4	2563.5	2395.8
52.5°	2449.7	2475.1	2533.3	2672.8	2836.1	2963.1	2898.7	2893.3	2884.1	2904.9	2658.6
55°	2514.8	2540.7	2616.7	2822.0	3103.2	3309.5	3312.8	3289.5	3229.5	3214.6	2904.1
57.5°	2474.8	2479.9	2588.3	2862.7	3251.3	3556.6	3663.6	3640.4	3529.3	3472.9	3121.0
60°	2224.4	2235.0	2386.0	2708.4	3186.9	3637.4	3896.1	3885.6	3764.1	3700.3	3289.9
62.5°	1780.8	1811.4	1966.8	2326.3	2887.4	3501.3	3990.4	4020.2	3925.6	3837.9	3343.1
63°	1699.3	1689.5	1853.6	2214.9	2808.1	3434.0	3991.8	4029.7	3932.9	3851.0	3328.4
65°	1258.0	1287.4	1394.0	1746.7	2336.9	3120.7	3902.0	3968.9	3905.9	3793.2	3167.3
67.5°	706.3	704.8	822.8	1143.0	1635.7	2447.9	3528.2	3669.8	3656.7	3403.8	2625.4
70°	345.7	351.1	399.6	592.4	948.6	1688.8	2931.8	3084.6	3089.4	2673.5	1815.5
72.5°	156.5	159.0	193.6	288.5	487.6	899.2	2020.3	2166.2	2139.3	1703.7	1002.5
75°	82.6	88.1	106.6	145.2	235.1	370.8	1098.9	1240.1	1183.7	778.3	368.9
77.5°	61.1	63.0	72.4	92.4	125.9	144.5	474.2	564.1	528.4	281.7	122.3
80°	44.7	46.3	53.8	65.5	79.3	73.5	178.6	204.9	183.8	95.7	37.5
82.5°	27.3	27.7	39.3	48.8	49.9	41.1	59.0	63.3	66.2	53.8	20.4
85°	9.8	12.4	26.6	35.3	29.4	20.8	24.7	27.3	29.9	34.2	12.0
87.5°	1.1	1.4	12.7	17.1	8.4	7.7	9.1	10.2	10.9	12.7	5.8
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°	541.1	541.1	541.1	541.1	541.1	541.1	541.1	541.1	541.1	541.1	541.1
2.5°	544.4	545.8	544.7	542.9	542.5	541.4	539.2	539.2	539.2	540.0	539.2
5°	552.4	553.5	550.9	547.3	543.3	538.2	532.7	529.5	529.1	528.4	526.6
7.5°	567.7	569.1	563.3	554.6	543.6	531.3	519.7	508.7	503.6	499.6	499.6
10°	589.9	591.3	579.7	564.1	542.2	517.0	489.5	464.3	444.6	435.6	433.4
12.5°	616.5	617.1	597.9	570.5	534.5	486.2	427.2	372.2	334.0	316.6	314.8
15°	645.6	640.4	614.9	573.1	512.7	422.4	320.6	253.2	213.6	201.9	206.3
17.5°	675.0	665.6	628.1	569.1	463.6	320.6	215.4	172.8	160.5	157.2	157.2
20°	702.7	689.5	637.6	551.6	378.4	220.8	159.7	149.5	147.3	145.2	145.6
22.5°	730.3	710.3	645.9	512.7	282.0	157.9	143.0	139.8	136.8	133.9	133.6
25°	757.2	729.6	649.2	440.7	192.2	135.7	130.6	126.2	120.4	117.2	116.5
27.5°	785.2	752.9	647.0	349.7	140.1	121.5	116.5	110.3	103.4	97.6	97.6
30°	839.1	797.3	639.3	251.5	117.9	107.0	100.4	90.6	83.0	77.1	76.8
32.5°	912.7	855.1	613.2	176.9	104.8	94.3	84.4	73.5	65.5	61.1	61.1
35°	978.2	913.3	564.1	130.3	94.3	81.9	69.9	59.3	53.2	50.2	49.1
37.5°	1077.8	998.5	496.4	105.9	84.0	71.0	58.6	48.8	43.6	41.5	41.5
40°	1227.4	1102.6	413.4	92.8	74.3	60.4	48.8	41.1	37.1	34.6	34.6
42.5°	1413.0	1230.0	329.3	83.3	65.2	52.1	40.8	34.9	31.3	29.4	29.1
45°	1646.6	1364.2	253.6	74.6	57.9	44.4	34.6	29.4	25.8	24.7	25.1
47.5°	1890.4	1482.4	196.5	66.9	50.2	37.5	29.4	25.5	23.0	21.4	21.4
50°	2098.5	1564.0	149.2	58.2	44.4	31.6	25.8	23.0	20.8	20.0	19.7
52.5°	2272.5	1587.6	114.3	50.5	38.9	27.3	23.0	20.8	18.9	17.8	17.8
55°	2420.6	1566.9	89.5	42.6	32.7	23.6	20.4	18.6	16.4	15.3	14.9
57.5°	2507.2	1500.3	68.4	35.3	26.6	19.7	17.8	15.6	13.1	11.3	11.3
60°	2550.8	1403.5	52.4	29.1	20.4	15.6	14.5	11.6	9.1	7.7	7.3
62.5°	2498.4	1275.0	39.7	23.0	15.3	11.6	9.8	8.4	5.8	4.4	4.4
63°	2466.1	1238.0	38.2	21.9	14.2	10.9	9.1	7.7	5.1	4.0	3.6
65°	2248.1	1076.0	31.3	17.5	11.3	7.7	6.2	5.5	3.6	1.9	1.4
67.5°	1785.2	823.1	24.7	13.1	8.0	5.5	3.6	3.3	1.1	0.0	0.0
70°	1207.0	531.6	19.3	9.4	5.5	3.3	1.9	1.4	0.3	0.0	0.0
72.5°	629.5	272.6	14.9	6.9	3.3	2.2	1.1	0.3	0.0	0.0	0.0
75°	222.7	92.8	10.9	4.4	2.2	1.1	0.3	0.0	0.0	0.0	0.0
77.5°	67.3	34.6	6.9	3.3	1.4	0.8	0.0	0.0	0.0	0.0	0.0
80°	23.6	12.7	4.0	2.2	1.1	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	11.6	6.2	2.5	1.9	1.1	0.3	0.0	0.0	0.0	0.0	0.0
85°	6.6	4.0	2.2	1.9	1.1	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	2.9	2.2	1.9	1.4	0.8	0.3	0.0	0.0	0.0	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)