

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: P647243

Luminaire Tested: **GALN-SA1D-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647243
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-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 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: 4499.9 lumens
Efficiency: N/A
Efficacy: 69.2 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

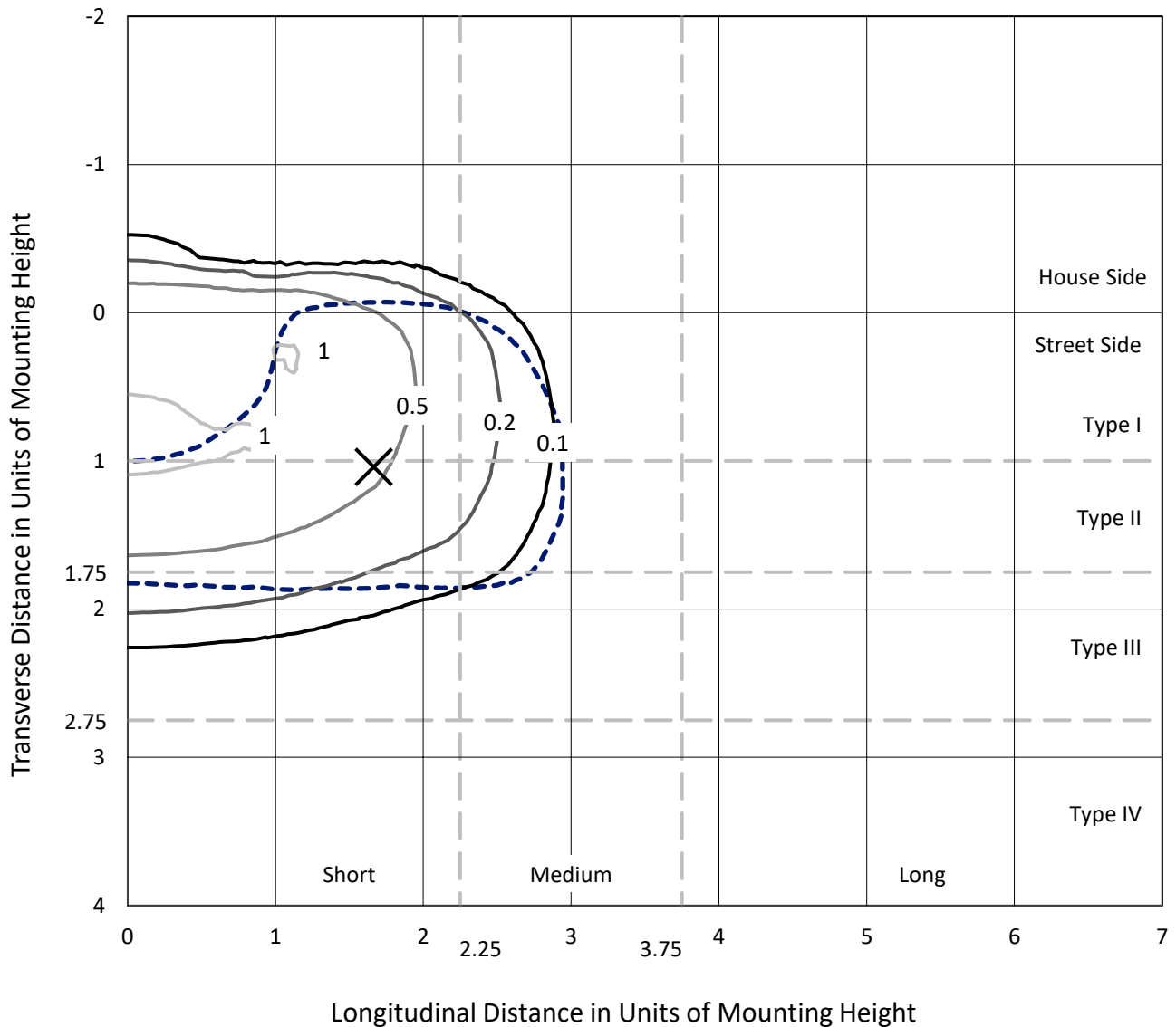
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

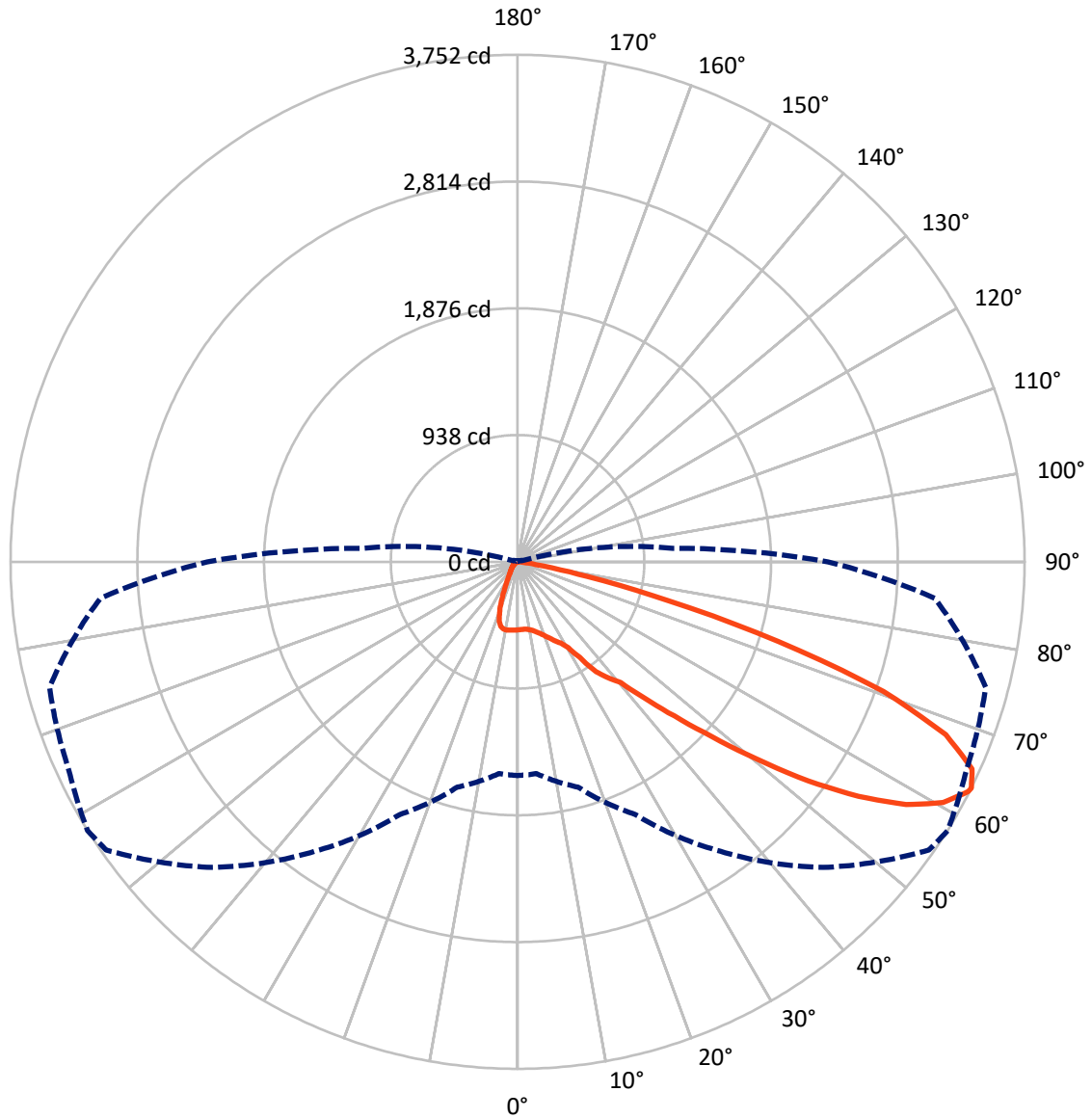
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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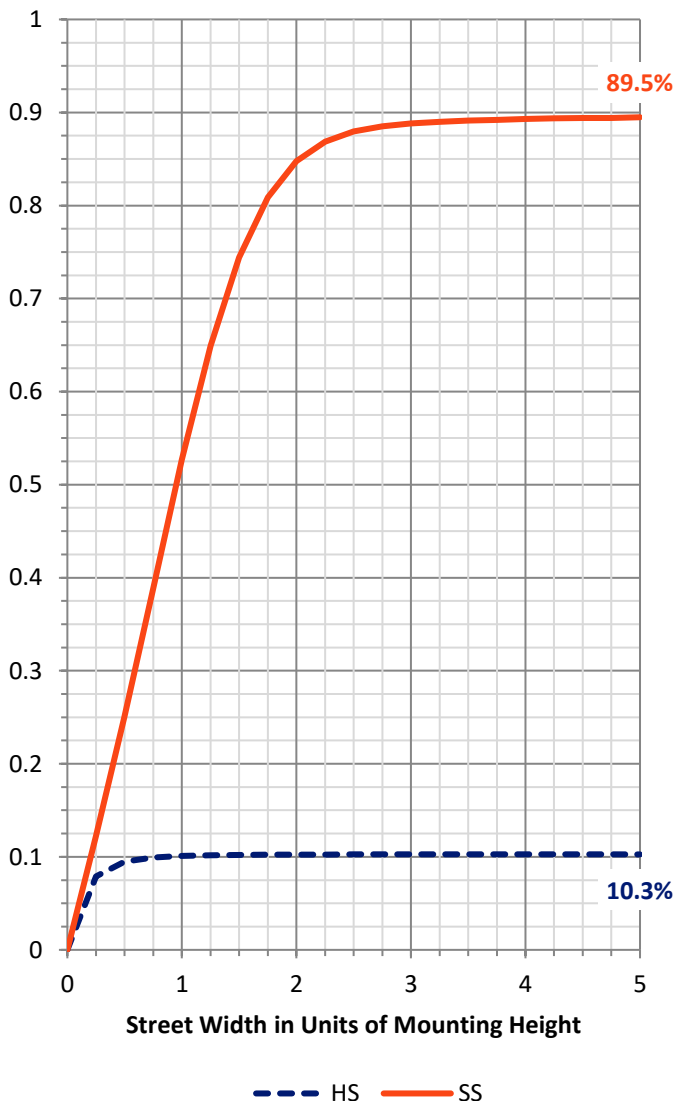
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	465.9	0.0	465.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	4033.9	0.0	4033.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	4499.9	0.0	4499.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.2	1.0
10°-20°	128.4	2.9
20°-30°	222.9	5.0
30°-40°	409.7	9.1
40°-50°	771.2	17.1
50°-60°	1319.0	29.3
60°-70°	1263.0	28.1
70°-80°	322.1	7.2
80°-90°	16.5	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°	4499.9	100.0
0°-180°	4499.9	100.0

Coefficient of Utilization



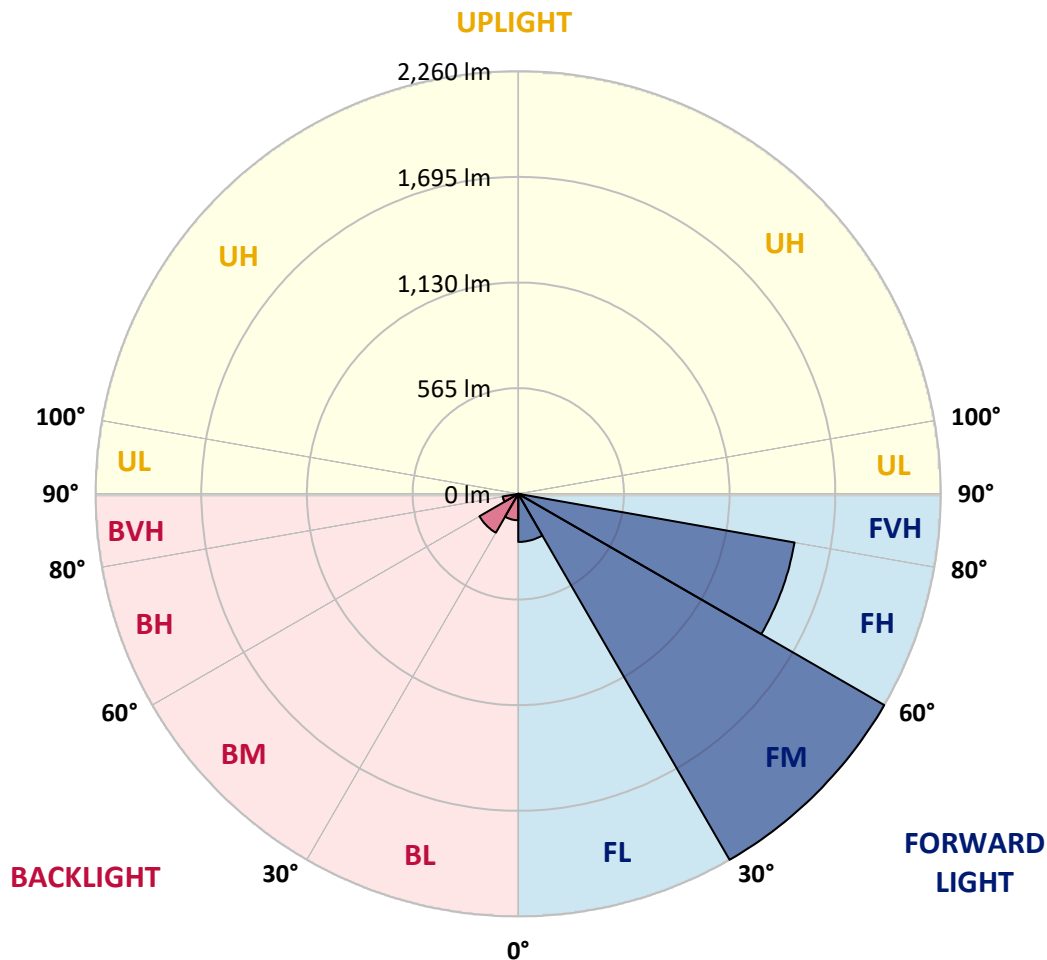
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	257.2	5.7			
FM (30°-60°)	2260.2	50.2			
FH (60°-80°)	1500.7	33.3			G1/1800
FVH (80°-90°)	15.8	0.4			G1/100
BL (0°-30°)	141.3	3.1	B1/500		
BM (30°-60°)	239.6	5.3	B1/1000		
BH (60°-80°)	84.3	1.9	B0/110		G0/110
BVH (80°-90°)	0.6	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°	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8
2.5°	491.3	493.0	494.6	495.3	497.7	500.0	501.7	501.4	504.1	505.5	505.5
5°	471.6	471.6	476.0	480.1	486.9	493.6	500.0	501.4	506.5	511.2	512.9
7.5°	455.0	456.0	459.4	466.8	476.0	487.9	500.7	503.8	512.6	523.1	527.5
10°	447.2	447.9	452.3	460.1	471.6	487.9	505.8	511.6	525.2	541.8	547.8
12.5°	445.5	446.5	450.9	459.8	472.9	492.6	517.0	523.1	542.8	564.1	573.2
15°	448.6	449.2	453.7	463.1	477.7	501.0	531.9	540.3	563.8	588.5	600.3
17.5°	459.4	458.8	461.7	469.6	485.9	511.6	549.8	560.0	587.5	621.3	629.1
20°	505.5	501.0	498.4	491.6	498.0	526.5	571.5	586.5	620.3	654.9	660.3
22.5°	604.7	594.9	575.6	549.2	528.8	546.8	597.7	614.9	658.6	692.5	692.5
25°	731.1	718.6	699.3	641.7	591.9	580.4	627.1	648.8	700.3	734.5	723.3
27.5°	889.3	879.5	841.9	774.8	698.6	638.9	661.3	681.3	737.2	778.5	755.1
30°	1018.1	1013.4	982.5	922.5	838.5	751.4	725.0	738.2	786.4	834.1	810.0
32.5°	1126.8	1126.8	1095.3	1039.4	960.8	883.5	833.1	842.6	888.6	943.9	899.1
35°	1246.4	1242.3	1216.9	1163.8	1075.7	1007.6	986.9	999.7	1041.5	1082.4	972.3
37.5°	1372.1	1370.7	1344.3	1292.8	1221.0	1135.3	1086.8	1090.2	1111.5	1136.6	1058.1
40°	1508.6	1510.6	1476.1	1444.2	1376.5	1288.7	1196.0	1174.6	1194.5	1265.4	1216.2
42.5°	1669.9	1665.1	1650.3	1606.9	1552.4	1499.8	1388.3	1380.6	1398.2	1474.1	1420.9
45°	1857.3	1864.0	1838.2	1814.2	1777.6	1734.0	1640.8	1627.2	1646.5	1764.4	1688.9
47.5°	2045.0	2038.5	2055.1	2050.7	2070.3	2037.8	1955.5	1927.7	1974.1	2085.9	1974.8
50°	2187.9	2195.0	2229.6	2280.1	2364.4	2382.7	2303.7	2294.3	2314.9	2386.7	2230.6
52.5°	2280.7	2304.4	2358.6	2488.5	2640.5	2758.7	2698.8	2693.8	2685.2	2704.6	2475.2
55°	2341.4	2365.4	2436.2	2627.4	2889.2	3081.3	3084.3	3062.6	3006.8	2992.9	2703.9
57.5°	2304.1	2308.8	2409.8	2665.3	3027.1	3311.3	3410.9	3389.3	3285.9	3233.4	2905.8
60°	2071.0	2080.8	2221.4	2521.7	2967.1	3386.6	3627.4	3617.6	3504.5	3445.1	3063.0
62.5°	1658.0	1686.5	1831.1	2165.9	2688.3	3259.9	3715.2	3743.0	3654.9	3573.2	3112.5
63°	1582.1	1573.0	1725.8	2062.2	2614.4	3197.1	3716.5	3751.7	3661.6	3585.4	3098.9
65°	1171.2	1198.6	1297.9	1626.2	2175.7	2905.5	3632.9	3695.2	3636.6	3531.6	2948.9
67.5°	657.6	656.2	766.0	1064.2	1522.9	2279.1	3284.9	3416.7	3404.5	3169.0	2444.4
70°	321.8	326.9	372.0	551.5	883.2	1572.3	2729.6	2871.9	2876.4	2489.1	1690.3
72.5°	145.7	148.1	180.2	268.6	454.0	837.2	1881.0	2016.9	1991.7	1586.2	933.3
75°	76.9	82.0	99.3	135.1	218.8	345.2	1023.1	1154.6	1102.1	724.7	343.5
77.5°	56.9	58.6	67.4	86.1	117.2	134.5	441.5	525.2	492.0	262.2	113.8
80°	41.7	43.1	50.1	61.0	73.8	68.4	166.3	190.7	171.1	89.1	34.9
82.5°	25.4	25.8	36.6	45.4	46.4	38.3	54.9	59.0	61.6	50.1	18.9
85°	9.2	11.5	24.7	32.9	27.4	19.3	23.0	25.4	27.8	31.9	11.2
87.5°	1.0	1.3	11.8	15.9	7.8	7.1	8.5	9.5	10.2	11.8	5.4
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°	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8
2.5°	506.8	508.2	507.1	505.5	505.1	504.1	502.1	502.1	502.1	502.8	502.1
5°	514.3	515.3	512.9	509.6	505.8	501.0	496.0	493.0	492.6	492.0	490.2
7.5°	528.5	529.9	524.5	516.3	506.1	494.6	483.8	473.6	468.9	465.2	465.2
10°	549.2	550.5	539.7	525.2	504.8	481.4	455.7	432.3	414.0	405.5	403.5
12.5°	573.9	574.6	556.6	531.2	497.7	452.7	397.8	346.6	311.0	294.7	293.1
15°	601.0	596.3	572.5	533.6	477.3	393.3	298.5	235.8	198.9	188.0	192.1
17.5°	628.4	619.7	584.7	529.9	431.6	298.5	200.5	160.9	149.4	146.3	146.3
20°	654.2	642.0	593.6	513.6	352.4	205.6	148.7	139.2	137.2	135.1	135.5
22.5°	680.0	661.3	601.3	477.3	262.5	147.0	133.1	130.1	127.4	124.7	124.3
25°	705.0	679.3	604.4	410.3	178.9	126.4	121.6	117.5	112.1	109.1	108.4
27.5°	731.1	700.9	602.4	325.6	130.4	113.1	108.4	102.7	96.2	90.8	90.8
30°	781.3	742.3	595.2	234.1	109.8	99.6	93.5	84.3	77.3	71.8	71.5
32.5°	849.7	796.2	570.9	164.7	97.6	87.8	78.6	68.4	61.0	56.9	56.9
35°	910.7	850.3	525.2	121.3	87.8	76.3	65.1	55.2	49.5	46.7	45.7
37.5°	1003.5	929.7	462.1	98.6	78.2	66.1	54.6	45.4	40.6	38.6	38.6
40°	1142.7	1026.5	384.8	86.4	69.1	56.2	45.4	38.3	34.5	32.2	32.2
42.5°	1315.5	1145.1	306.6	77.6	60.7	48.5	38.0	32.5	29.1	27.4	27.1
45°	1533.0	1270.1	236.2	69.5	53.9	41.3	32.2	27.4	24.0	23.0	23.4
47.5°	1760.0	1380.2	182.9	62.3	46.7	34.9	27.4	23.7	21.4	20.0	20.0
50°	1953.8	1456.1	138.9	54.2	41.3	29.4	24.0	21.4	19.3	18.6	18.3
52.5°	2115.7	1478.1	106.4	47.1	36.3	25.4	21.4	19.3	17.6	16.6	16.6
55°	2253.6	1458.8	83.3	39.6	30.5	22.0	18.9	17.3	15.3	14.3	13.9
57.5°	2334.3	1396.8	63.7	32.9	24.7	18.3	16.6	14.6	12.2	10.5	10.5
60°	2374.9	1306.7	48.8	27.1	18.9	14.6	13.5	10.8	8.5	7.1	6.8
62.5°	2326.1	1187.1	37.0	21.4	14.3	10.8	9.2	7.8	5.4	4.1	4.1
63°	2296.0	1152.6	35.5	20.4	13.2	10.2	8.5	7.1	4.8	3.8	3.4
65°	2093.0	1001.8	29.1	16.3	10.5	7.1	5.8	5.1	3.4	1.7	1.3
67.5°	1662.1	766.3	23.0	12.2	7.4	5.1	3.4	3.1	1.0	0.0	0.0
70°	1123.8	494.9	17.9	8.8	5.1	3.1	1.7	1.3	0.3	0.0	0.0
72.5°	586.1	253.8	13.9	6.4	3.1	2.0	1.0	0.3	0.0	0.0	0.0
75°	207.3	86.4	10.2	4.1	2.0	1.0	0.3	0.0	0.0	0.0	0.0
77.5°	62.6	32.2	6.4	3.1	1.3	0.7	0.0	0.0	0.0	0.0	0.0
80°	22.0	11.8	3.8	2.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	10.8	5.8	2.3	1.7	1.0	0.3	0.0	0.0	0.0	0.0	0.0
85°	6.1	3.8	2.0	1.7	1.0	0.7	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	2.7	2.0	1.7	1.3	0.7	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)