

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: P458617

Luminaire Tested: **GALN-SA1D-735-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458617  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1D-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5451 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G2

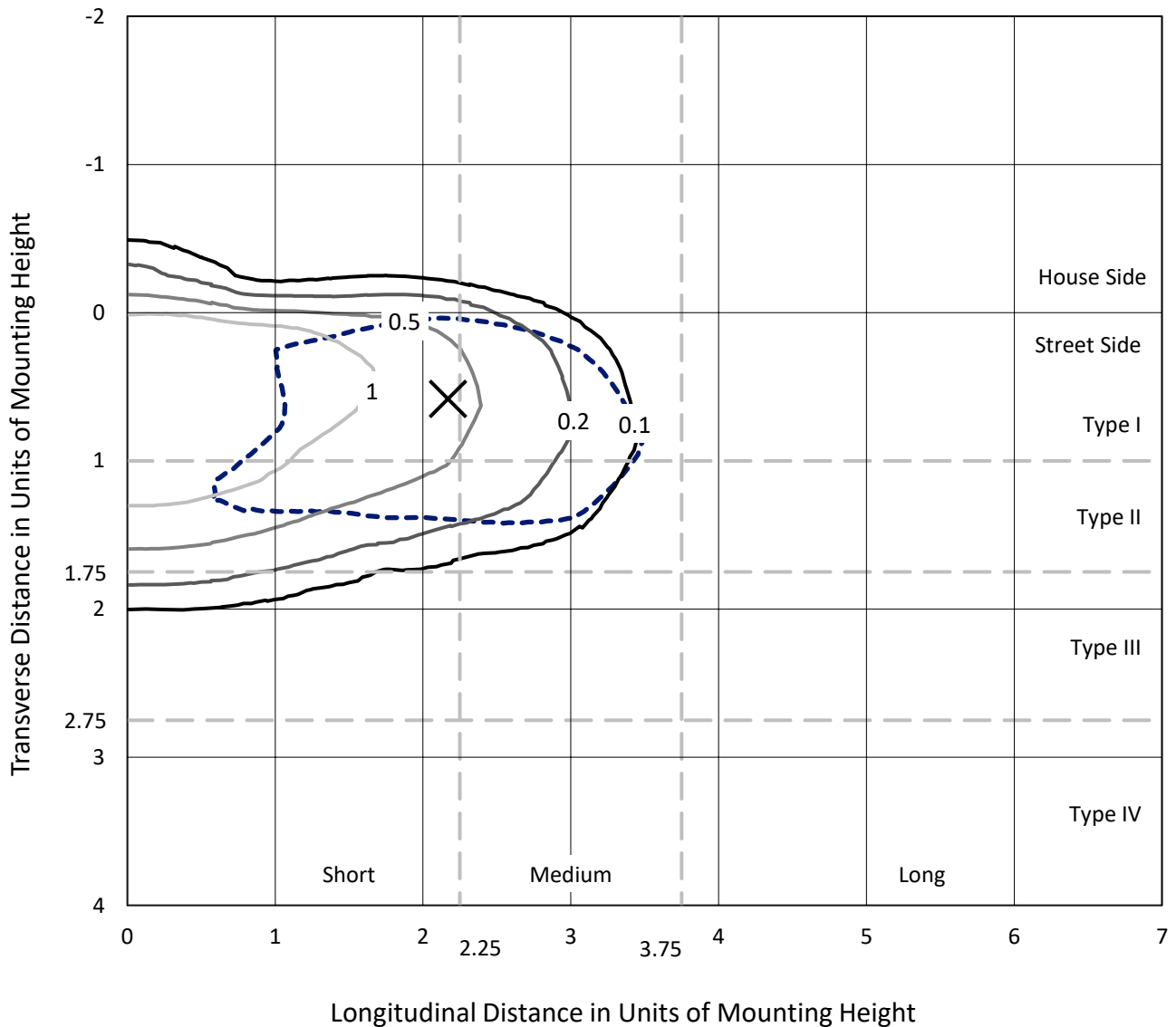
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

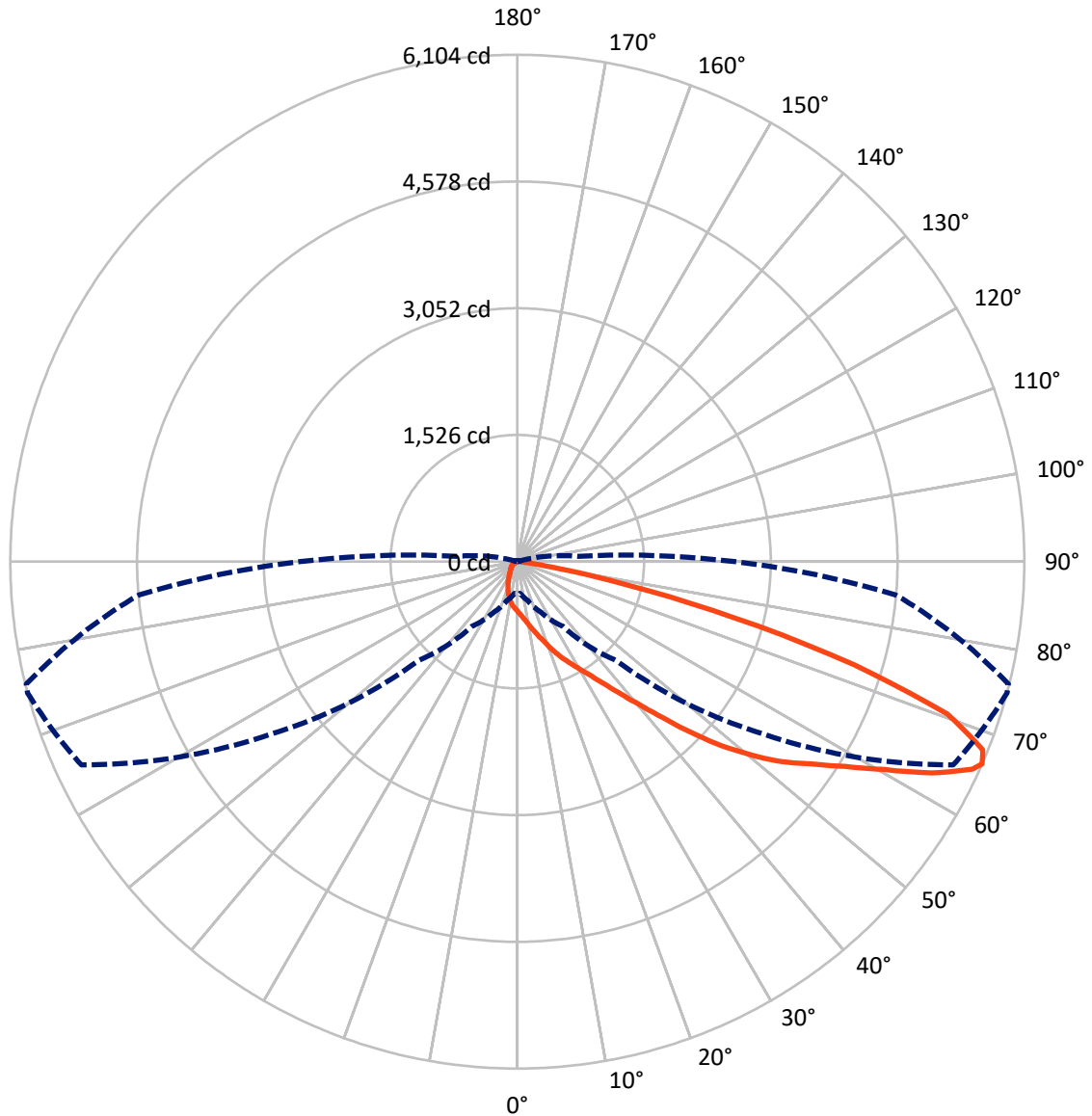
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical



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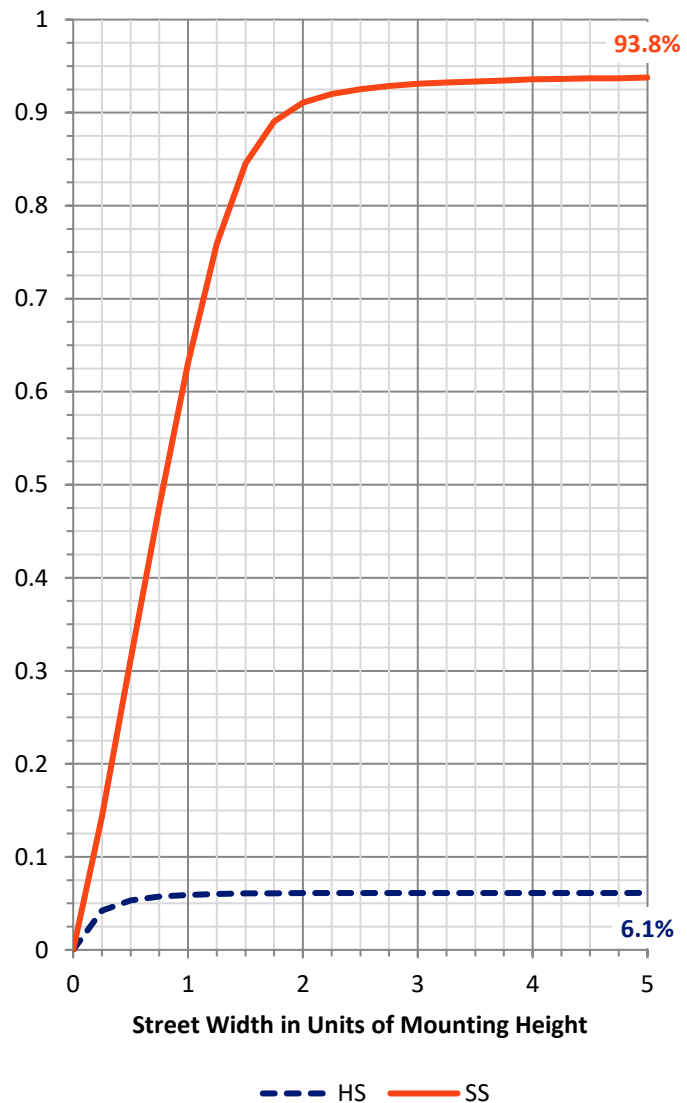
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	336.5	0.0	336.5
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	5114.5	0.0	5114.5
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	5451.0	0.0	5451.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.5	1.1
10°-20°	169.2	3.1
20°-30°	292.2	5.4
30°-40°	527.1	9.7
40°-50°	952.2	17.5
50°-60°	1484.4	27.2
60°-70°	1410.1	25.9
70°-80°	528.5	9.7
80°-90°	29.8	0.5
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°	5451.0	100.0
0°-180°	5451.0	100.0



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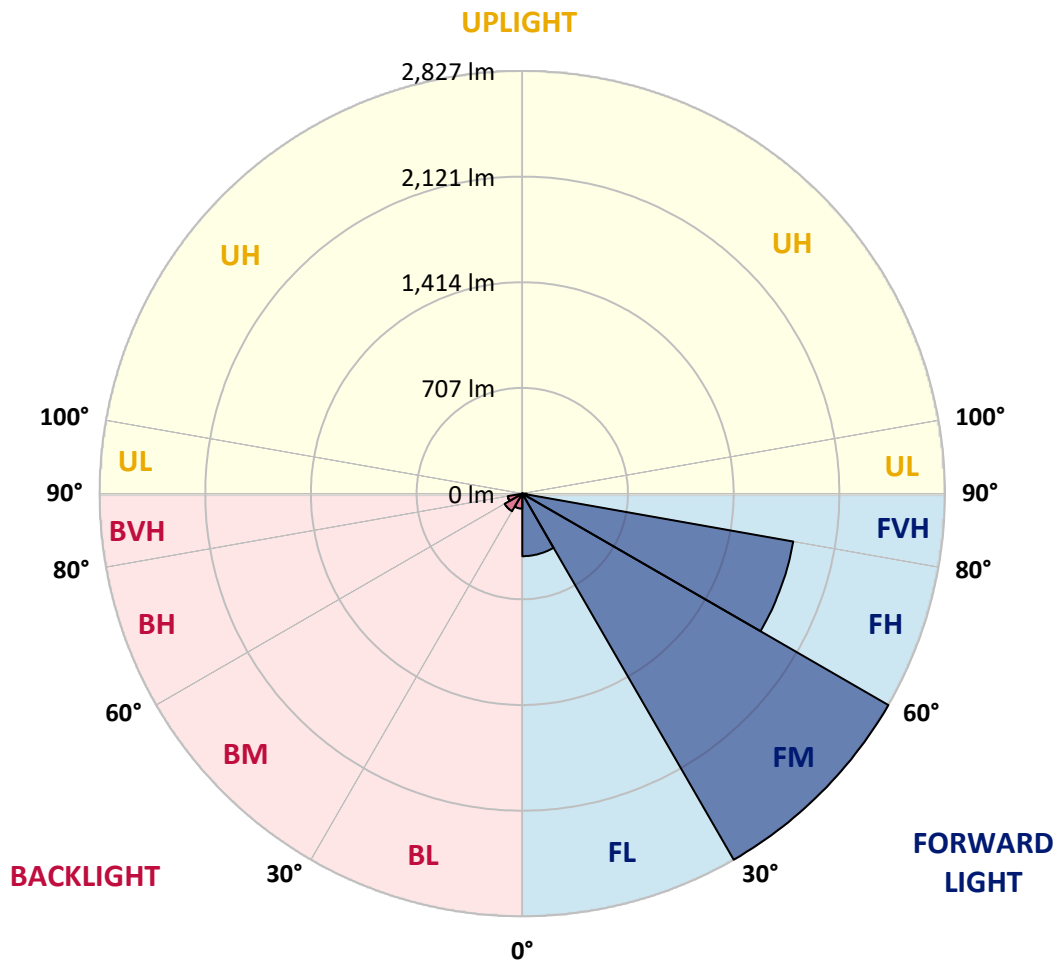
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	418.4	7.7			
FM (30°-60°)	2827.4	51.9			
FH (60°-80°)	1840.4	33.8			G2/5000
FVH (80°-90°)	28.3	0.5			G1/100
BL (0°-30°)	100.5	1.8	B0/110		
BM (30°-60°)	136.2	2.5	B0/220		
BH (60°-80°)	98.3	1.8	B0/110		G0/110
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	596.1	596.1	596.1	596.1	596.1	596.1	596.1	596.1	596.1	596.1	596.1
2.5°	712.2	703.3	706.2	702.1	692.9	679.2	667.1	649.7	632.4	629.6	610.2
5°	806.1	803.7	800.5	788.8	782.3	761.4	736.4	706.6	670.7	664.2	629.2
7.5°	870.2	869.0	870.6	864.6	858.9	840.0	813.4	772.7	717.0	713.4	655.0
10°	891.2	894.4	900.4	910.1	919.0	912.9	892.8	842.0	777.1	766.6	684.4
12.5°	879.1	882.7	897.2	923.0	951.6	968.1	960.1	923.0	840.8	832.3	717.4
15°	848.0	852.5	873.0	912.9	964.1	1010.9	1031.0	1004.4	914.9	901.2	757.3
17.5°	802.1	808.5	838.0	890.8	960.9	1041.5	1098.3	1089.5	993.9	981.0	800.9
20°	767.4	772.3	797.2	857.7	947.2	1058.4	1162.4	1187.4	1091.5	1069.3	852.1
22.5°	790.4	792.0	800.5	836.7	922.6	1062.9	1218.8	1289.4	1195.1	1175.3	905.3
25°	902.8	886.7	878.3	870.2	917.4	1058.8	1270.0	1395.8	1298.2	1277.3	958.1
27.5°	1080.2	1072.9	1030.2	973.0	962.1	1064.1	1303.9	1496.5	1395.4	1372.8	1009.7
30°	1273.3	1260.8	1234.6	1150.7	1066.5	1101.2	1328.5	1594.5	1510.3	1480.4	1056.8
32.5°	1450.6	1458.7	1419.6	1333.3	1235.8	1180.1	1360.3	1701.3	1642.1	1605.0	1111.6
35°	1657.4	1673.5	1613.4	1530.8	1416.7	1322.8	1422.4	1821.8	1809.3	1762.6	1196.3
37.5°	1867.4	1877.0	1840.4	1724.3	1621.5	1504.2	1539.3	1970.5	2015.3	1975.4	1297.4
40°	2043.9	2057.2	2030.2	1927.0	1817.4	1714.2	1709.0	2132.6	2260.3	2219.2	1448.2
42.5°	2178.9	2189.0	2189.8	2116.9	2018.1	1971.3	1925.4	2339.3	2567.5	2519.9	1623.1
45°	2349.4	2363.9	2355.5	2305.9	2232.1	2223.7	2199.9	2589.2	2935.1	2875.0	1850.0
47.5°	2613.0	2622.7	2601.7	2543.3	2468.3	2481.6	2467.5	2869.4	3309.9	3258.3	2085.0
50°	2796.0	2812.1	2842.0	2865.3	2810.9	2761.7	2719.8	3130.9	3665.8	3619.4	2325.2
52.5°	2794.0	2820.6	2914.9	3032.6	3151.5	3136.6	3016.1	3419.9	4005.6	3948.3	2550.9
55°	2605.8	2657.4	2796.0	3004.8	3334.1	3498.1	3443.3	3754.5	4299.0	4260.3	2812.5
57.5°	2217.2	2248.7	2441.3	2733.1	3232.1	3668.2	3938.3	4207.9	4650.9	4632.7	3218.8
60°	1491.3	1505.4	1753.3	2114.0	2751.7	3498.5	4301.0	4756.5	5084.2	5075.3	3693.2
62.5°	854.5	860.5	1040.3	1344.6	1958.0	2964.9	4331.6	5433.2	5603.7	5608.5	4242.2
65°	459.9	463.1	608.2	789.2	1191.4	2113.2	3895.1	5804.0	6023.7	6033.0	4582.4
66°	397.0	381.7	484.1	672.7	948.0	1682.0	3619.0	5790.7	6104.3	6094.2	4570.3
67.5°	301.9	315.6	386.5	517.1	702.5	1195.9	2987.9	5533.2	6043.0	6011.6	4384.4
70°	216.0	221.7	275.3	368.8	478.4	656.2	1909.3	4595.7	5492.5	5450.1	3819.8
72.5°	139.5	145.5	195.1	266.8	345.8	358.3	1068.9	3320.4	4234.5	4228.5	2876.6
75°	99.6	105.2	129.0	191.0	260.0	221.7	514.7	2237.8	2692.0	2673.9	1779.5
77.5°	72.1	75.0	86.3	124.9	185.8	158.8	238.6	1195.1	1340.2	1403.4	786.4
80°	41.5	43.9	60.1	76.2	125.8	108.4	114.1	479.6	494.6	470.8	245.9
82.5°	20.6	23.4	35.9	52.0	78.6	73.0	52.4	144.3	152.4	148.3	62.1
85°	4.8	6.0	20.2	34.3	38.3	32.6	25.4	42.3	52.4	51.2	23.8
87.5°	0.4	0.8	7.3	6.0	6.4	10.9	8.9	10.9	16.9	15.7	8.5
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°	596.1	596.1	596.1	596.1	596.1	596.1	596.1	596.1	596.1	596.1	596.1
2.5°	601.4	593.7	571.5	549.8	531.6	512.7	495.4	485.3	481.2	476.8	478.8
5°	609.8	591.3	546.5	507.9	470.0	437.7	411.9	395.4	387.3	386.1	384.1
7.5°	621.1	589.3	519.9	459.5	409.9	374.0	344.6	320.8	313.6	307.1	301.9
10°	634.8	585.6	486.9	408.7	355.9	310.8	272.1	243.8	229.3	225.3	228.1
12.5°	649.3	578.8	452.2	361.9	301.1	243.4	207.6	193.5	189.4	187.8	188.2
15°	663.8	570.3	416.0	316.8	239.8	194.3	177.7	174.1	172.5	171.7	170.9
17.5°	677.1	556.6	375.2	272.9	194.3	166.1	160.0	156.8	153.6	152.4	150.3
20°	692.9	540.9	338.6	223.7	164.4	150.3	143.1	137.0	132.2	129.0	128.6
22.5°	707.8	520.7	300.3	185.4	149.9	135.0	123.3	116.9	111.2	107.2	108.4
25°	715.8	496.2	266.0	161.6	136.6	119.7	106.8	98.7	92.7	90.7	90.3
27.5°	715.8	465.9	232.6	147.9	124.5	106.0	92.7	85.0	81.0	78.2	78.6
30°	710.2	432.5	201.5	137.4	114.1	93.9	81.4	74.6	71.3	69.3	68.9
32.5°	705.8	400.6	174.9	127.4	103.2	83.4	72.6	67.3	64.1	62.1	62.1
35°	712.6	373.2	154.4	117.3	93.1	75.4	65.7	60.9	57.6	56.0	55.6
37.5°	730.7	348.2	138.7	106.4	83.8	68.5	60.9	55.2	52.0	50.0	49.2
40°	775.5	334.1	127.0	96.3	75.0	62.9	55.2	50.0	45.9	43.9	43.5
42.5°	847.2	334.5	115.7	87.1	68.1	58.0	50.4	44.3	39.9	37.9	37.5
45°	955.2	349.9	106.8	78.2	62.1	52.8	45.1	38.7	34.7	32.6	32.6
47.5°	1084.6	379.7	99.2	70.5	56.4	48.0	39.9	33.5	29.4	27.8	27.8
50°	1224.9	418.4	91.5	62.5	51.6	42.7	34.3	29.0	25.8	24.6	24.6
52.5°	1368.0	465.1	83.8	56.0	46.4	37.1	29.4	25.8	23.0	22.2	21.8
55°	1555.8	524.8	75.8	49.2	40.7	31.8	26.2	22.6	19.3	18.1	17.7
57.5°	1844.8	614.7	66.9	43.1	33.5	26.6	22.6	18.9	15.3	13.3	12.9
60°	2193.4	724.3	57.6	37.9	27.0	21.8	18.1	14.5	11.3	8.9	8.5
62.5°	2519.9	794.0	48.8	31.8	21.4	16.5	12.9	10.9	8.1	5.6	5.2
65°	2664.2	770.6	40.3	25.8	16.9	11.7	8.5	7.7	4.8	2.4	2.0
66°	2616.2	736.0	37.1	23.4	15.3	10.1	7.3	6.4	3.6	1.2	1.2
67.5°	2474.8	654.2	32.2	20.2	13.3	8.1	5.6	4.8	2.0	0.4	0.0
70°	2120.5	529.2	25.4	14.9	9.7	5.6	3.2	2.4	1.2	0.0	0.0
72.5°	1628.8	394.2	20.2	11.3	6.9	3.2	1.6	0.8	1.2	0.0	0.0
75°	998.0	225.3	15.7	8.5	4.4	2.0	1.2	0.0	1.2	0.4	0.0
77.5°	443.0	101.2	10.5	5.6	3.2	1.6	0.8	0.0	0.8	0.4	0.0
80°	112.0	33.1	6.0	4.0	2.4	1.2	0.4	0.0	0.8	0.8	0.4
82.5°	30.6	12.1	4.4	3.2	2.0	1.2	0.4	0.0	0.8	0.8	0.8
85°	12.1	5.6	4.0	3.2	2.4	1.2	0.4	0.0	0.8	0.8	0.8
87.5°	5.6	4.0	4.0	3.6	2.8	1.2	0.4	0.0	0.8	0.4	0.8
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)