

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: P651745

Luminaire Tested: **GALN-SA2A-840-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651745  
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-SA2A-840-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5781.9 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G2

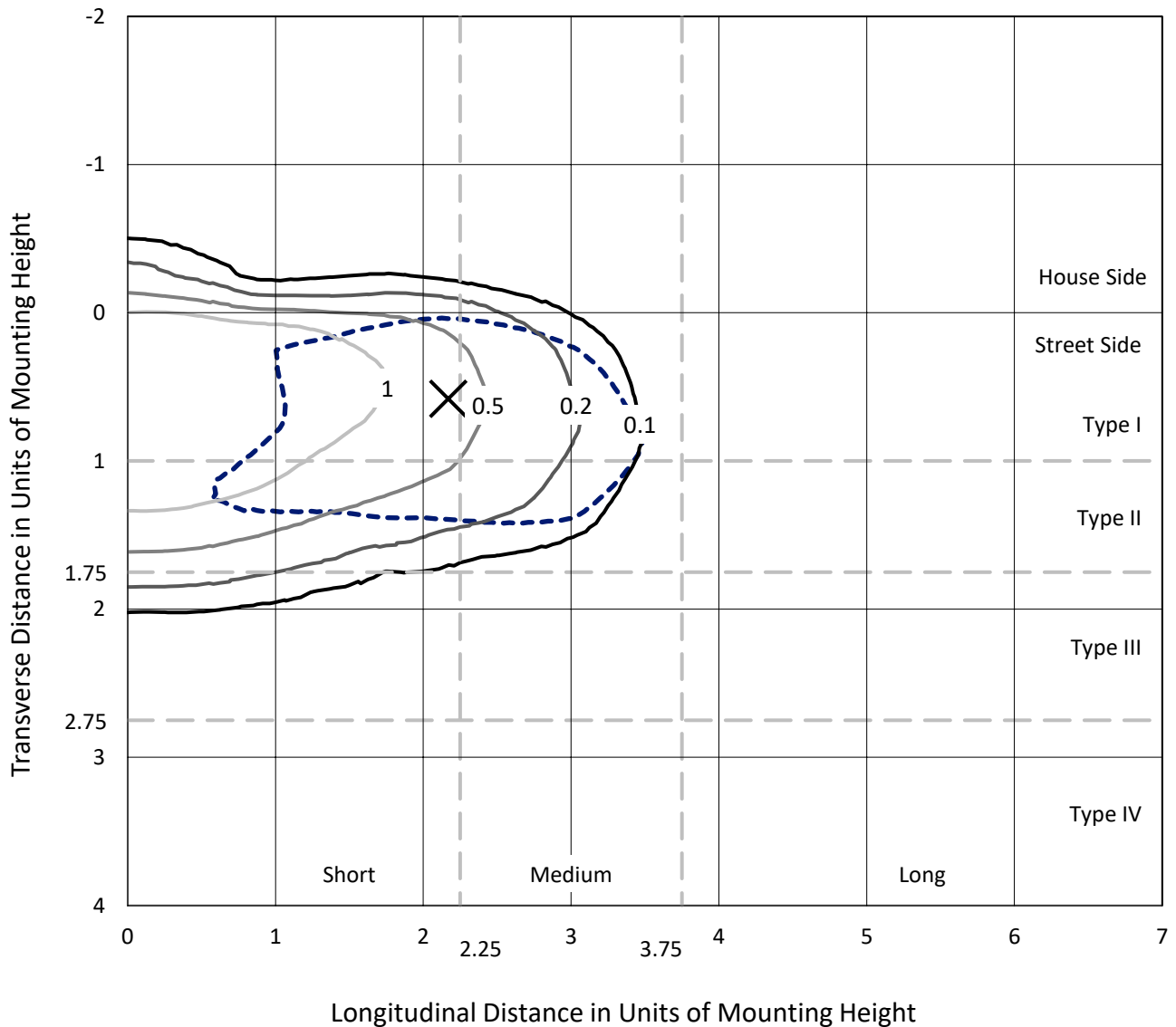
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

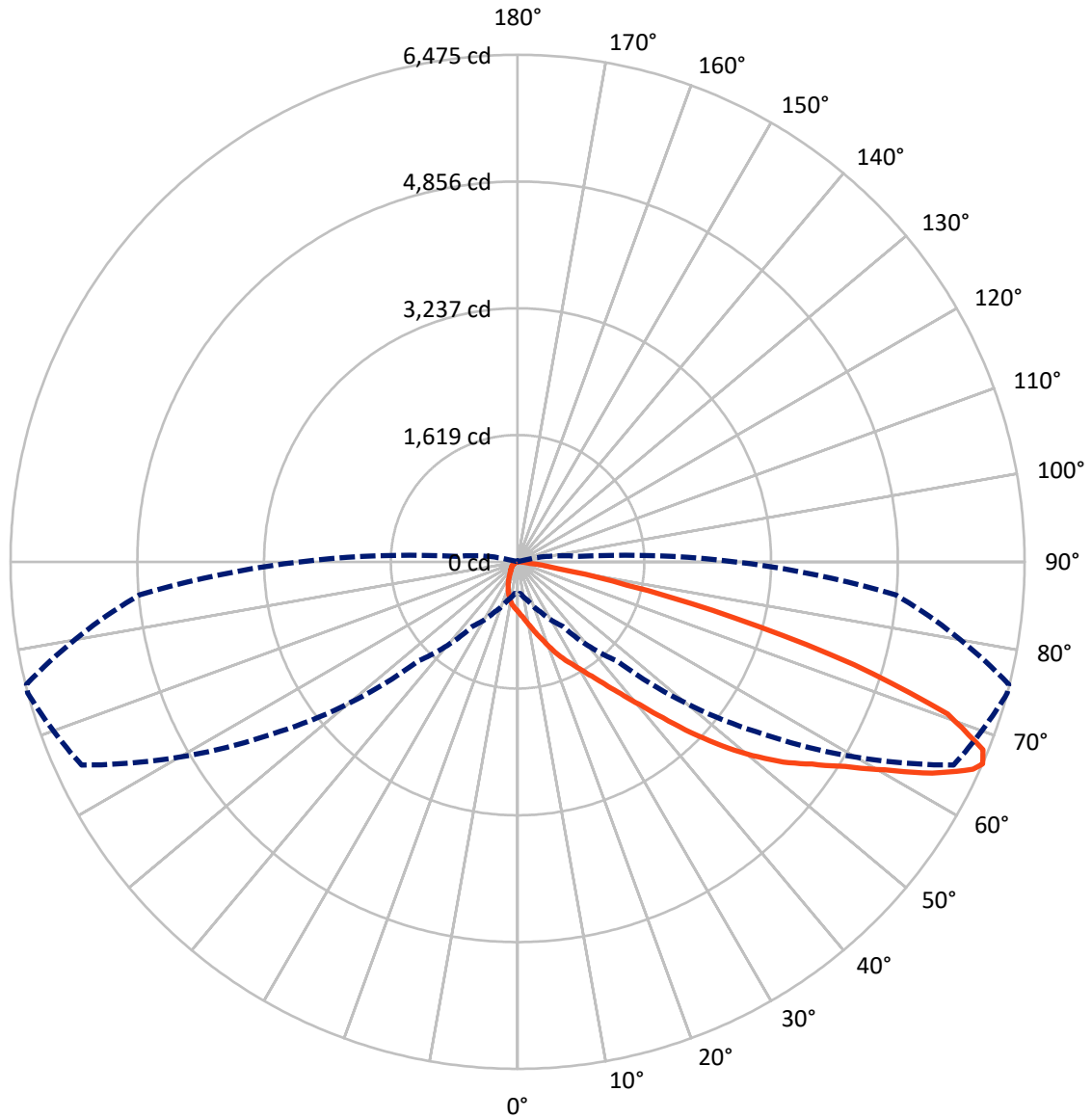
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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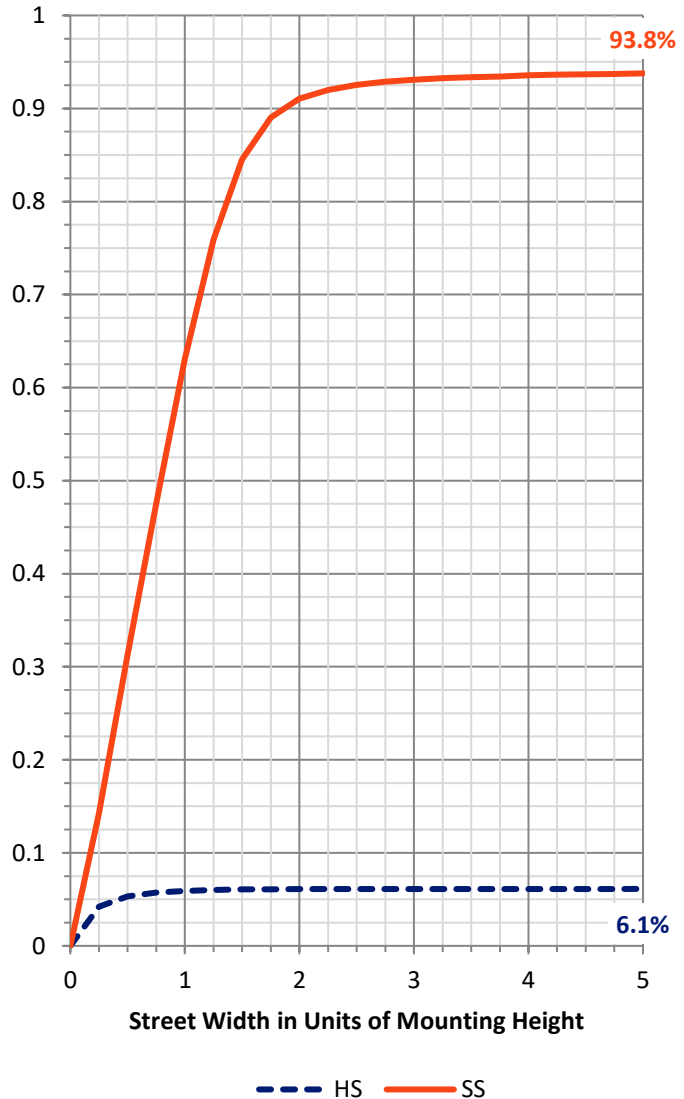
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	356.9	0.0	356.9
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	5424.9	0.0	5424.9
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	5781.9	0.0	5781.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.0	1.1
10°-20°	179.5	3.1
20°-30°	309.9	5.4
30°-40°	559.1	9.7
40°-50°	1010.0	17.5
50°-60°	1574.5	27.2
60°-70°	1495.7	25.9
70°-80°	560.6	9.7
80°-90°	31.6	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°	5781.9	100.0
0°-180°	5781.9	100.0

**Coefficient of Utilization**

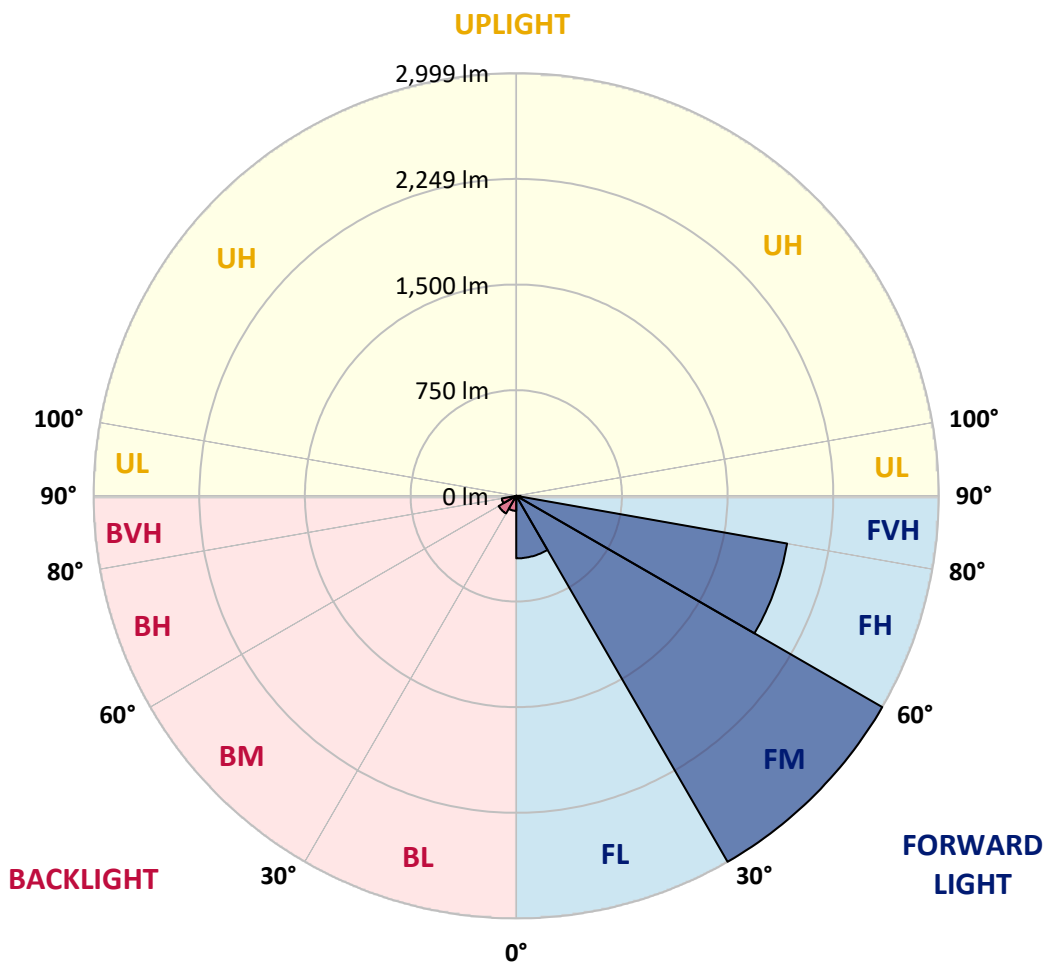


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.8	7.7			
FM (30°-60°)	2999.1	51.9			
FH (60°-80°)	1952.1	33.8			G2/5000
FVH (80°-90°)	30.0	0.5			G1/100
BL (0°-30°)	106.6	1.8	B0/110		
BM (30°-60°)	144.5	2.5	B0/220		
BH (60°-80°)	104.2	1.8	B0/110		G0/110
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3
2.5°	755.5	746.1	749.0	744.7	734.9	720.4	707.5	689.2	670.8	667.8	647.2
5°	855.0	852.4	849.1	836.6	829.8	807.6	781.1	749.4	711.4	704.6	667.3
7.5°	923.0	921.7	923.4	917.0	911.1	891.0	862.7	819.6	760.6	756.7	694.8
10°	945.3	948.6	955.1	965.4	974.7	968.3	947.0	893.1	824.3	813.2	726.0
12.5°	932.4	936.3	951.7	979.0	1009.4	1026.9	1018.4	979.0	891.8	882.8	761.0
15°	899.5	904.2	926.0	968.3	1022.7	1072.2	1093.6	1065.4	970.5	956.0	803.3
17.5°	850.8	857.6	888.9	944.9	1019.2	1104.7	1165.0	1155.6	1054.3	1040.6	849.5
20°	814.0	819.1	845.6	909.8	1004.7	1122.7	1233.0	1259.5	1157.7	1134.3	903.8
22.5°	838.4	840.1	849.1	887.5	978.6	1127.4	1292.8	1367.6	1267.6	1246.6	960.3
25°	957.6	940.6	931.6	923.0	973.0	1123.1	1347.1	1480.5	1377.1	1354.9	1016.2
27.5°	1145.8	1138.0	1092.7	1032.1	1020.5	1128.6	1383.0	1587.4	1480.1	1456.1	1070.9
30°	1350.6	1337.3	1309.5	1220.5	1131.2	1168.0	1409.1	1691.3	1601.9	1570.3	1121.0
32.5°	1538.7	1547.2	1505.7	1414.2	1310.8	1251.7	1442.9	1804.5	1741.7	1702.4	1179.1
35°	1757.9	1775.1	1711.4	1623.7	1502.7	1403.1	1508.8	1932.4	1919.2	1869.5	1268.9
37.5°	1980.7	1991.0	1952.0	1828.9	1719.9	1595.5	1632.7	2090.1	2137.6	2095.3	1376.2
40°	2167.9	2182.1	2153.5	2044.0	1927.7	1818.2	1812.7	2262.0	2397.5	2354.0	1536.1
42.5°	2311.2	2321.8	2322.8	2245.4	2140.6	2091.0	2042.3	2481.4	2723.3	2672.9	1721.6
45°	2492.1	2507.4	2498.4	2445.9	2367.6	2358.7	2333.4	2746.4	3113.2	3049.6	1962.3
47.5°	2771.6	2781.9	2759.7	2697.7	2618.1	2632.2	2617.3	3043.5	3510.8	3456.1	2211.6
50°	2965.7	2982.9	3014.5	3039.3	2981.5	2929.4	2884.9	3321.0	3888.3	3839.2	2466.4
52.5°	2963.6	2991.8	3091.9	3216.7	3342.8	3327.0	3199.2	3627.5	4248.7	4188.0	2705.7
55°	2763.9	2818.6	2965.7	3187.1	3536.5	3710.5	3652.3	3982.4	4560.0	4518.9	2983.3
57.5°	2351.8	2385.2	2589.5	2899.0	3428.3	3890.9	4177.3	4463.4	4933.1	4914.0	3414.2
60°	1581.8	1596.8	1859.7	2242.4	2918.7	3710.9	4562.1	5045.2	5392.7	5383.3	3917.4
62.5°	906.3	912.7	1103.5	1426.3	2076.9	3144.8	4594.6	5763.0	5943.9	5949.0	4499.7
65°	487.8	491.2	645.1	837.0	1263.8	2241.5	4131.6	6156.3	6389.3	6399.2	4860.5
66°	421.1	404.9	513.4	713.5	1005.5	1784.0	3838.7	6142.2	6474.9	6464.1	4847.7
67.5°	320.3	334.7	410.0	548.5	745.2	1268.5	3169.2	5869.0	6409.8	6376.5	4650.6
70°	229.2	235.1	292.0	391.1	507.5	696.0	2025.2	4874.6	5825.9	5780.9	4051.6
72.5°	147.9	154.3	206.9	283.0	366.8	380.0	1133.8	3521.9	4491.5	4485.1	3051.2
75°	105.6	111.6	136.8	202.7	275.8	235.1	546.0	2373.6	2855.4	2836.2	1887.5
77.5°	76.5	79.6	91.5	132.5	197.0	168.5	253.1	1267.6	1421.5	1488.7	834.1
80°	44.1	46.6	63.7	80.8	133.4	115.0	121.0	508.7	524.5	499.4	260.8
82.5°	21.8	24.8	38.0	55.2	83.3	77.4	55.6	153.1	161.6	157.4	65.9
85°	5.1	6.4	21.4	36.3	40.6	34.6	26.9	44.9	55.6	54.3	25.2
87.5°	0.4	0.8	7.7	6.4	6.8	11.5	9.4	11.5	18.0	16.7	9.0
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°	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3
2.5°	637.9	629.7	606.2	583.1	563.9	543.8	525.5	514.8	510.5	505.8	507.9
5°	646.8	627.1	579.7	538.7	498.5	464.3	436.9	419.4	410.8	409.6	407.5
7.5°	658.8	625.0	551.5	487.4	434.8	396.7	365.5	340.3	332.6	325.8	320.3
10°	673.4	621.2	516.5	433.5	377.5	329.6	288.5	258.7	243.3	239.0	242.0
12.5°	688.8	613.9	479.7	383.9	319.3	258.2	220.2	205.2	200.9	199.2	199.7
15°	704.2	604.9	441.2	336.1	254.4	206.0	188.6	184.7	183.0	182.2	181.2
17.5°	718.2	590.4	398.0	289.5	206.0	176.1	169.7	166.3	162.9	161.6	159.5
20°	734.9	573.7	359.1	237.2	174.4	159.5	151.8	145.3	140.2	136.8	136.4
22.5°	750.8	552.4	318.5	196.6	159.0	143.2	130.9	124.0	118.0	113.7	115.0
25°	759.3	526.3	282.2	171.4	144.9	127.0	113.3	104.7	98.3	96.2	95.8
27.5°	759.3	494.3	246.7	156.9	132.1	112.4	98.3	90.2	86.0	82.9	83.3
30°	753.3	458.8	213.8	145.7	121.0	99.6	86.4	79.1	75.7	73.5	73.1
32.5°	748.6	425.0	185.5	135.1	109.4	88.5	77.0	71.4	68.0	65.9	65.9
35°	755.9	395.9	163.7	124.4	98.7	80.0	69.7	64.6	61.1	59.5	59.0
37.5°	775.1	369.4	147.1	112.9	88.9	72.7	64.6	58.5	55.2	53.0	52.1
40°	822.6	354.4	134.6	102.2	79.6	66.7	58.5	53.0	48.8	46.6	46.2
42.5°	898.7	354.8	122.7	92.3	72.2	61.6	53.4	47.0	42.3	40.2	39.8
45°	1013.2	371.0	113.3	82.9	65.9	56.0	47.9	41.0	36.8	34.6	34.6
47.5°	1150.5	402.8	105.2	74.8	59.9	50.9	42.3	35.5	31.2	29.5	29.5
50°	1299.3	443.8	97.1	66.3	54.7	45.3	36.3	30.8	27.3	26.1	26.1
52.5°	1451.0	493.3	88.9	59.5	49.2	39.4	31.2	27.3	24.4	23.5	23.1
55°	1650.2	556.7	80.4	52.1	43.1	33.8	27.8	24.0	20.5	19.3	18.8
57.5°	1956.8	651.9	71.0	45.8	35.5	28.3	24.0	20.1	16.2	14.1	13.7
60°	2326.5	768.3	61.1	40.2	28.7	23.1	19.3	15.4	11.9	9.4	9.0
62.5°	2672.9	842.2	51.7	33.8	22.6	17.5	13.7	11.5	8.6	6.0	5.6
65°	2825.9	817.5	42.7	27.3	18.0	12.4	9.0	8.2	5.1	2.6	2.1
66°	2775.0	780.6	39.4	24.8	16.2	10.7	7.7	6.8	3.9	1.3	1.3
67.5°	2625.0	693.9	34.2	21.4	14.1	8.6	6.0	5.1	2.1	0.4	0.0
70°	2249.2	561.4	26.9	15.8	10.3	6.0	3.4	2.6	1.3	0.0	0.0
72.5°	1727.6	418.1	21.4	11.9	7.2	3.4	1.7	0.8	1.3	0.0	0.0
75°	1058.6	239.0	16.7	9.0	4.7	2.1	1.3	0.0	1.3	0.4	0.0
77.5°	469.9	107.3	11.1	6.0	3.4	1.7	0.8	0.0	0.8	0.4	0.0
80°	118.8	35.1	6.4	4.3	2.6	1.3	0.4	0.0	0.8	0.8	0.4
82.5°	32.5	12.9	4.7	3.4	2.1	1.3	0.4	0.0	0.8	0.8	0.8
85°	12.9	6.0	4.3	3.4	2.6	1.3	0.4	0.0	0.8	0.8	0.8
87.5°	6.0	4.3	4.3	3.9	3.0	1.3	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)