

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: P647799

Luminaire Tested: **GALN-SA2A-835-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647799  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-835-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5185 lumens  
Efficiency: N/A  
Efficacy: 82.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

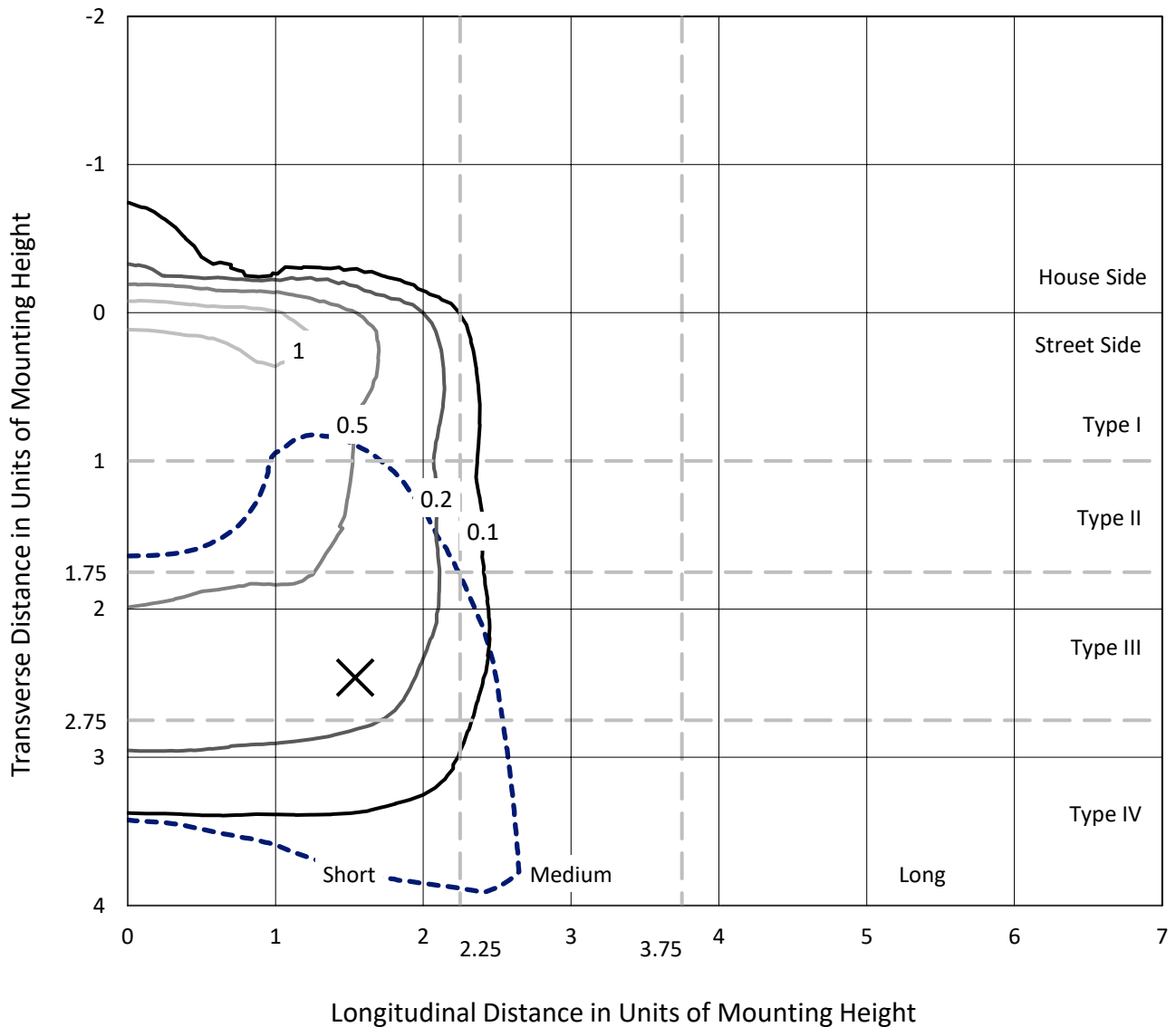
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

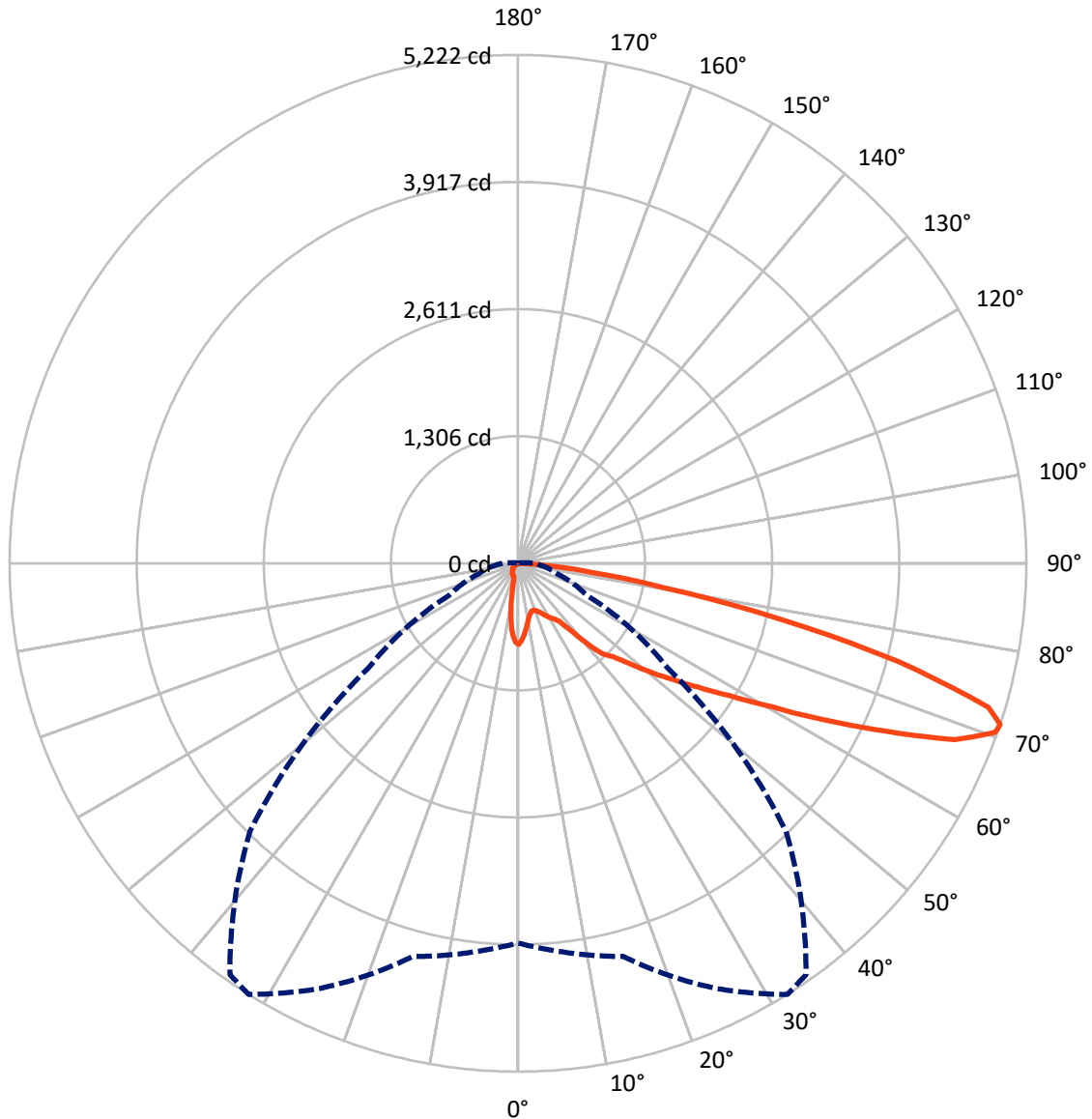
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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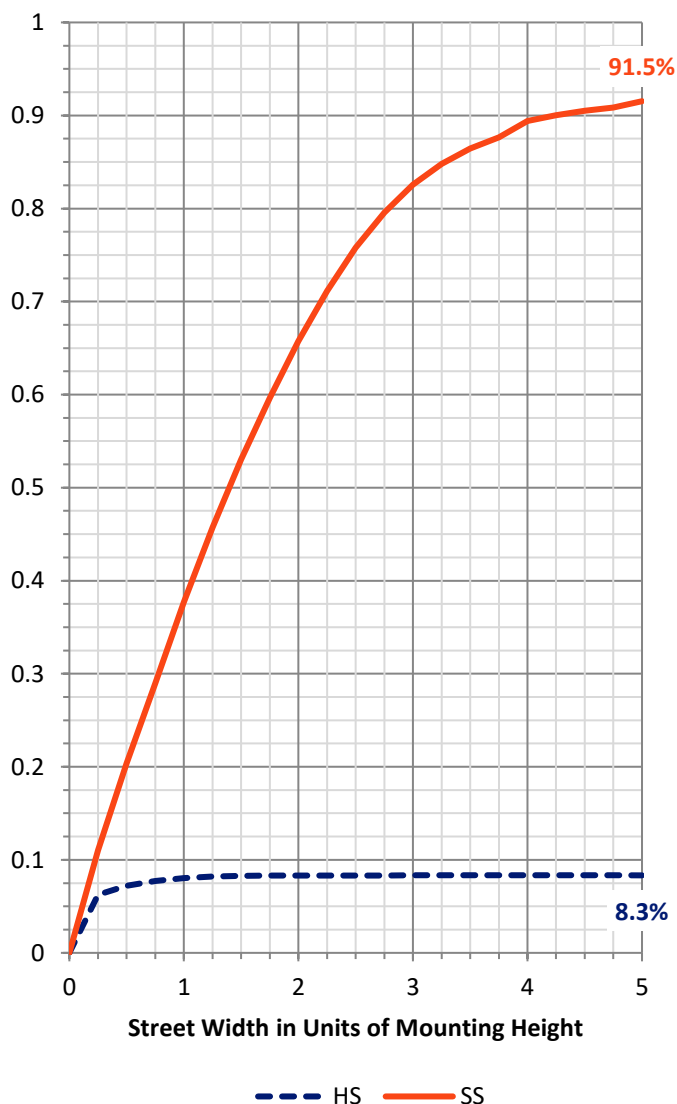
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	434.3	0.0	434.3
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	4750.7	0.0	4750.7
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	5185.0	0.0	5185.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.8	1.3
10°-20°	147.2	2.8
20°-30°	228.9	4.4
30°-40°	381.4	7.4
40°-50°	709.4	13.7
50°-60°	1139.0	22.0
60°-70°	1532.0	29.5
70°-80°	909.0	17.5
80°-90°	70.3	1.4
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°	5185.0	100.0
0°-180°	5185.0	100.0

**Coefficient of Utilization**

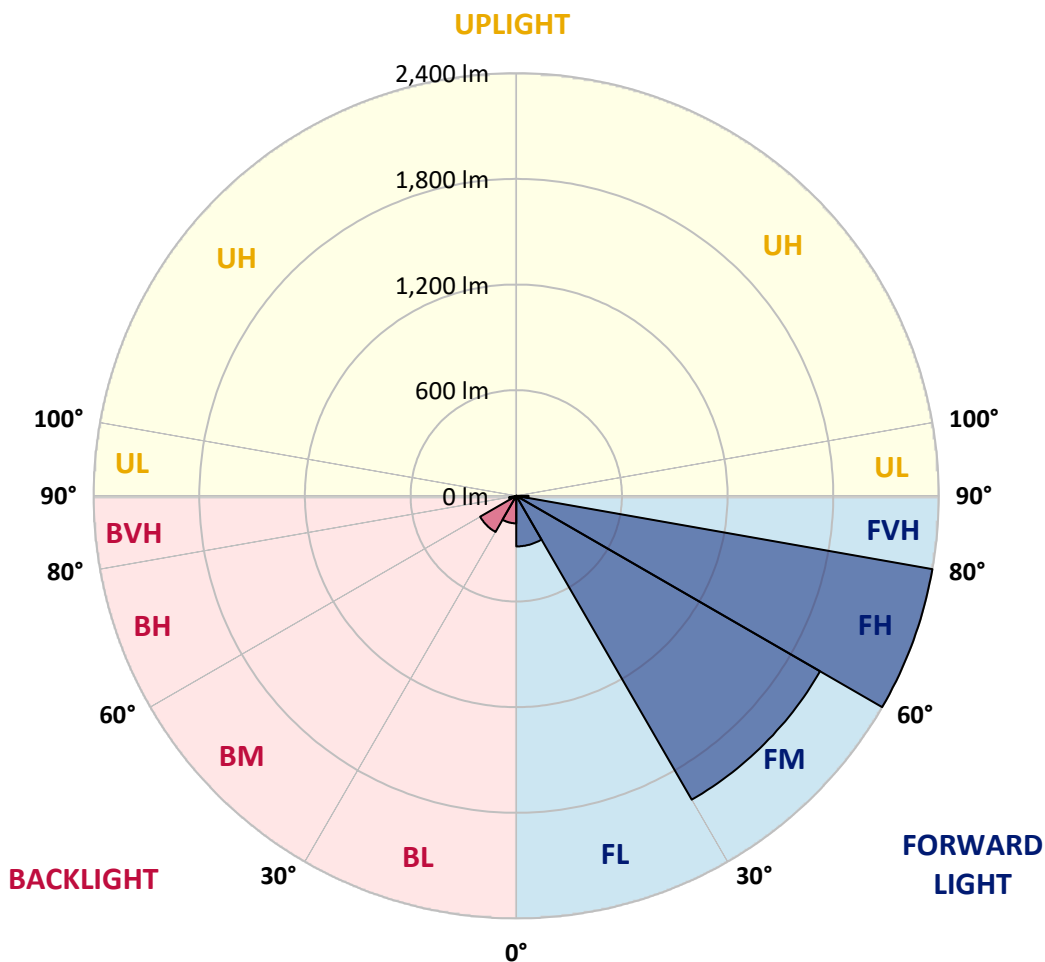


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	287.4	5.5			
FM (30°-60°)	1992.9	38.4			
FH (60°-80°)	2400.4	46.3			G2/5000
FVH (80°-90°)	70.0	1.3			G1/100
BL (0°-30°)	156.5	3.0	B1/500		
BM (30°-60°)	236.9	4.6	B1/1000		
BH (60°-80°)	40.6	0.8	B0/110		G0/110
BVH (80°-90°)	0.3	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-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	833.8	833.8	833.8	833.8	833.8	833.8	833.8	833.8	833.8	833.8	833.8
2.5°	773.4	781.3	780.1	782.9	789.7	792.5	800.0	808.4	819.9	827.9	833.0
5°	692.6	698.5	699.3	713.2	720.0	727.6	749.9	774.2	801.2	822.7	837.0
7.5°	606.2	609.3	615.8	634.0	651.1	658.7	692.6	734.8	777.3	817.5	843.4
10°	534.9	538.5	550.1	569.6	585.4	595.4	642.4	695.3	755.0	814.7	852.5
12.5°	494.3	496.3	500.7	518.2	538.5	549.3	599.8	660.3	737.1	815.9	868.0
15°	491.6	490.8	485.5	492.7	511.1	522.2	571.5	636.4	721.2	819.9	886.4
17.5°	506.3	504.3	492.0	492.0	507.1	516.2	559.6	623.7	713.2	829.0	912.3
20°	529.0	525.8	505.5	503.9	518.6	528.1	566.7	624.4	714.8	846.2	946.9
22.5°	557.7	554.1	523.4	524.2	540.1	549.7	587.5	638.8	724.7	867.3	983.9
25°	595.0	591.0	554.8	553.3	569.9	578.3	618.1	664.3	738.7	893.6	1032.5
27.5°	644.8	636.4	593.0	590.6	608.5	619.3	655.1	698.5	763.3	929.7	1097.7
30°	685.8	676.6	635.2	628.8	647.9	656.3	693.3	744.7	812.0	993.0	1188.0
32.5°	739.5	726.0	677.5	660.7	681.0	691.8	748.6	830.7	884.0	1059.9	1295.6
35°	860.5	852.1	792.9	734.3	733.1	746.7	830.2	917.4	958.0	1164.2	1442.0
37.5°	1033.6	1027.7	964.8	886.4	863.6	857.3	929.3	1013.0	1076.2	1307.5	1612.4
40°	1234.6	1220.7	1163.0	1096.5	1067.1	1048.4	1046.4	1155.0	1230.6	1502.1	1789.9
42.5°	1378.7	1353.3	1283.2	1278.4	1272.1	1252.6	1196.0	1362.8	1430.1	1711.5	1979.7
45°	1530.0	1491.4	1387.1	1369.2	1366.8	1365.6	1422.1	1608.8	1647.4	1938.3	2174.7
47.5°	1647.4	1616.7	1531.2	1523.2	1533.1	1560.2	1721.0	1869.9	1861.9	2140.5	2338.4
50°	1803.8	1780.7	1685.6	1700.7	1752.0	1796.2	2058.1	2154.4	2038.2	2299.7	2457.3
52.5°	1988.4	1945.9	1857.5	1898.5	1977.3	2050.9	2415.9	2403.6	2162.0	2419.5	2546.1
55°	2148.5	2118.2	2087.9	2130.5	2248.4	2340.3	2739.1	2590.2	2251.9	2515.9	2585.1
57.5°	2419.1	2412.0	2380.9	2424.2	2567.1	2662.7	3028.5	2735.1	2309.7	2566.0	2539.3
60°	2819.5	2808.0	2750.3	2805.6	2991.8	3141.9	3295.1	2865.3	2322.8	2546.5	2407.6
62.5°	3301.1	3261.7	3212.3	3293.9	3549.5	3615.5	3546.3	2942.5	2273.8	2391.3	2090.0
65°	3750.9	3710.2	3711.4	3883.4	4161.6	4206.6	3839.2	2930.9	2130.5	2002.4	1541.5
67.5°	4095.2	4088.4	4136.9	4472.4	4836.2	4805.2	4101.1	2758.2	1705.8	1297.9	819.1
70°	4112.6	4125.8	4265.1	4831.4	5200.8	5151.4	4078.8	2242.0	1063.5	597.0	322.8
71°	3900.9	3989.2	4181.9	4820.3	5222.3	5158.2	3891.0	1877.8	780.1	416.3	232.9
72.5°	3324.2	3370.7	3787.1	4536.5	5052.4	4915.4	3414.5	1316.2	499.5	254.7	133.7
75°	1830.9	1945.4	2536.1	3559.0	4041.0	3920.8	2225.3	625.3	249.2	139.3	55.4
77.5°	871.6	849.3	1237.5	2116.6	2739.9	2733.5	1121.2	277.8	145.2	94.4	27.9
80°	249.2	280.2	473.6	1006.2	1521.2	1537.9	430.6	134.1	100.7	73.6	14.3
82.5°	75.2	76.8	173.9	445.0	756.6	713.2	161.6	68.4	72.4	58.5	8.4
85°	13.2	16.3	51.4	156.8	288.5	218.9	40.6	32.7	47.8	38.6	4.8
87.5°	0.8	1.2	17.1	17.9	25.4	14.7	7.1	4.8	10.3	10.3	2.8
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°	833.8	833.8	833.8	833.8	833.8	833.8	833.8	833.8	833.8	833.8	833.8
2.5°	836.6	839.0	837.4	833.8	827.9	820.7	811.1	803.2	796.4	792.9	797.3
5°	841.8	845.0	837.0	819.1	792.0	762.6	729.1	703.3	683.0	676.6	674.2
7.5°	849.8	851.7	830.2	790.4	733.1	663.5	602.6	551.2	511.5	499.5	482.0
10°	860.1	858.9	818.3	744.3	643.5	538.9	444.6	374.5	321.6	302.5	300.9
12.5°	876.0	869.7	803.2	681.4	536.9	400.0	283.4	221.7	188.2	177.1	174.8
15°	895.9	880.8	779.3	607.8	411.2	258.3	174.8	156.1	151.7	150.9	150.0
17.5°	919.4	895.5	747.8	517.4	288.9	167.6	146.1	145.6	146.1	145.2	144.9
20°	951.3	911.0	710.4	410.4	191.1	141.3	139.3	139.3	139.7	139.3	139.3
22.5°	985.1	929.3	664.3	313.2	144.1	134.1	133.7	134.5	135.3	134.9	134.9
25°	1026.9	953.2	603.4	214.5	129.0	128.2	128.6	130.1	131.8	132.2	131.8
27.5°	1087.4	982.7	538.1	147.7	118.2	119.0	123.0	127.0	129.4	129.7	129.7
30°	1155.4	1015.3	453.0	119.8	109.5	109.5	114.2	121.8	127.0	127.8	128.2
32.5°	1243.0	1053.1	358.6	107.9	101.1	100.3	104.7	113.8	123.4	126.1	126.1
35°	1351.2	1097.7	266.7	100.3	95.1	93.1	95.5	103.1	115.4	123.4	124.2
37.5°	1478.2	1139.9	195.0	93.6	89.6	86.8	88.3	94.4	104.3	116.2	119.4
40°	1595.6	1177.3	145.6	87.9	84.0	82.0	83.2	86.0	94.4	105.5	107.4
42.5°	1723.8	1206.4	115.8	82.0	78.4	77.6	77.6	78.8	84.4	90.7	91.1
45°	1851.6	1216.7	97.1	74.9	72.4	73.2	72.8	72.0	74.5	73.6	73.6
47.5°	1942.7	1204.4	80.4	68.0	68.0	69.2	67.3	64.4	63.3	58.5	58.9
50°	2005.2	1159.4	66.1	60.1	63.3	64.9	60.9	56.5	52.1	47.0	45.8
52.5°	2031.0	1079.4	54.1	49.7	56.1	58.1	53.3	48.2	41.4	37.0	35.8
55°	2014.3	980.7	44.9	40.6	47.4	49.7	44.9	39.0	31.5	26.7	25.8
57.5°	1940.7	862.9	38.2	32.3	37.8	39.4	36.3	29.8	22.3	17.5	17.5
60°	1813.3	741.1	31.0	25.4	28.3	30.6	27.5	21.5	15.1	10.7	9.9
62.5°	1555.0	601.8	25.1	19.9	19.9	21.9	19.1	15.5	9.6	5.6	5.2
65°	1122.8	412.7	19.9	14.7	14.3	14.3	11.9	10.3	5.6	2.3	1.6
67.5°	610.1	232.9	15.9	11.1	9.9	9.6	7.6	6.0	2.3	0.4	0.0
70°	240.0	89.6	12.4	7.6	6.3	6.0	4.0	2.8	1.6	0.0	0.0
71°	162.8	61.7	10.7	6.3	5.2	4.4	3.2	2.3	1.2	0.0	0.0
72.5°	93.1	38.2	8.4	4.8	4.0	3.2	2.3	1.6	1.2	0.0	0.0
75°	40.6	19.5	5.2	3.6	2.8	2.0	1.6	1.2	0.4	0.0	0.0
77.5°	20.7	10.7	3.6	2.8	1.6	1.2	0.8	0.4	0.0	0.0	0.0
80°	11.5	5.6	2.3	1.6	1.2	0.8	0.4	0.4	0.0	0.0	0.0
82.5°	6.3	3.2	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	2.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.8	0.0	0.0	0.0	0.0	0.4	0.4	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)