

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: P647841

Luminaire Tested: **GALN-SA3A-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647841  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-835-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7069.7 lumens  
Efficiency: N/A  
Efficacy: 76.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G0

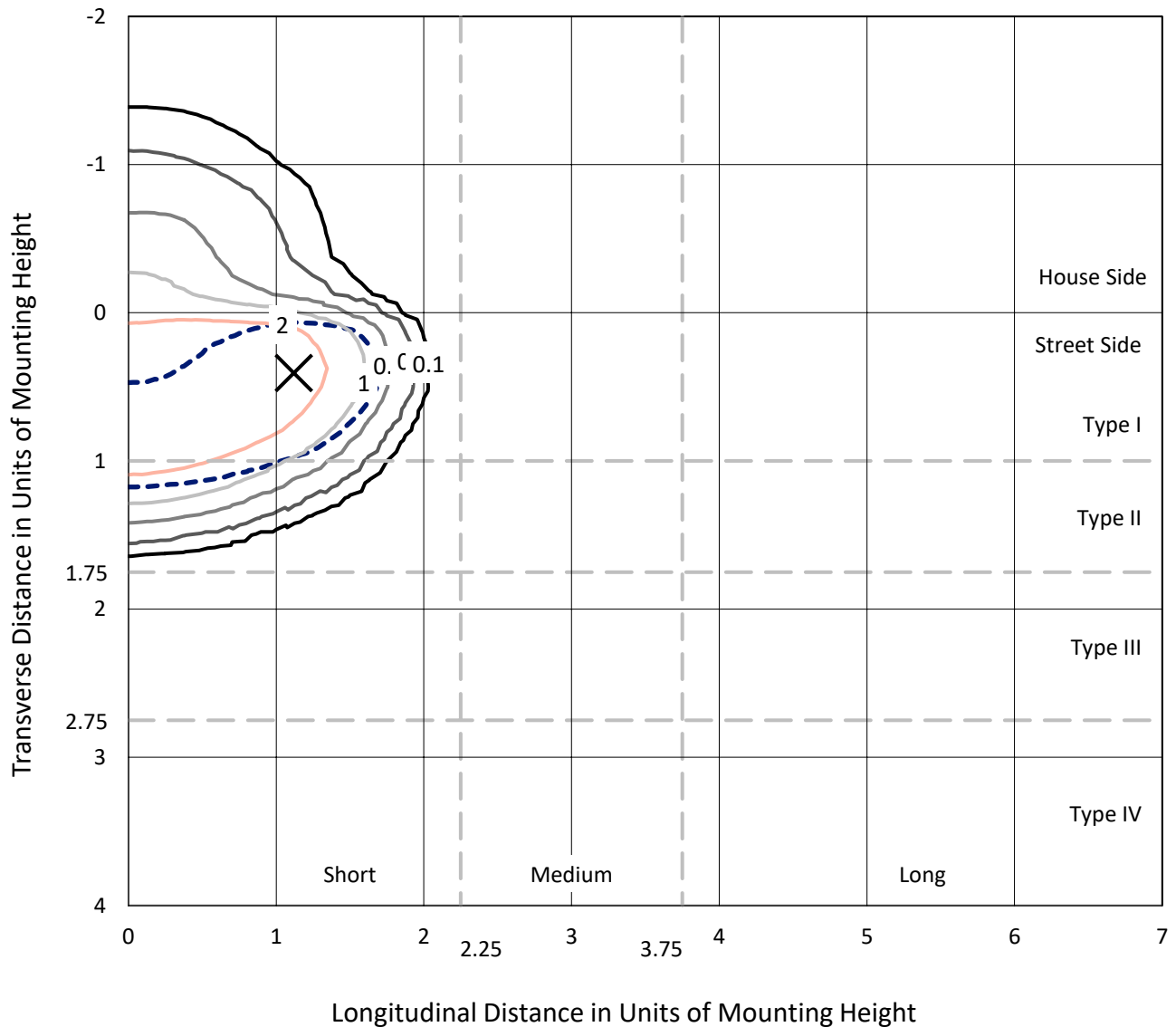
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

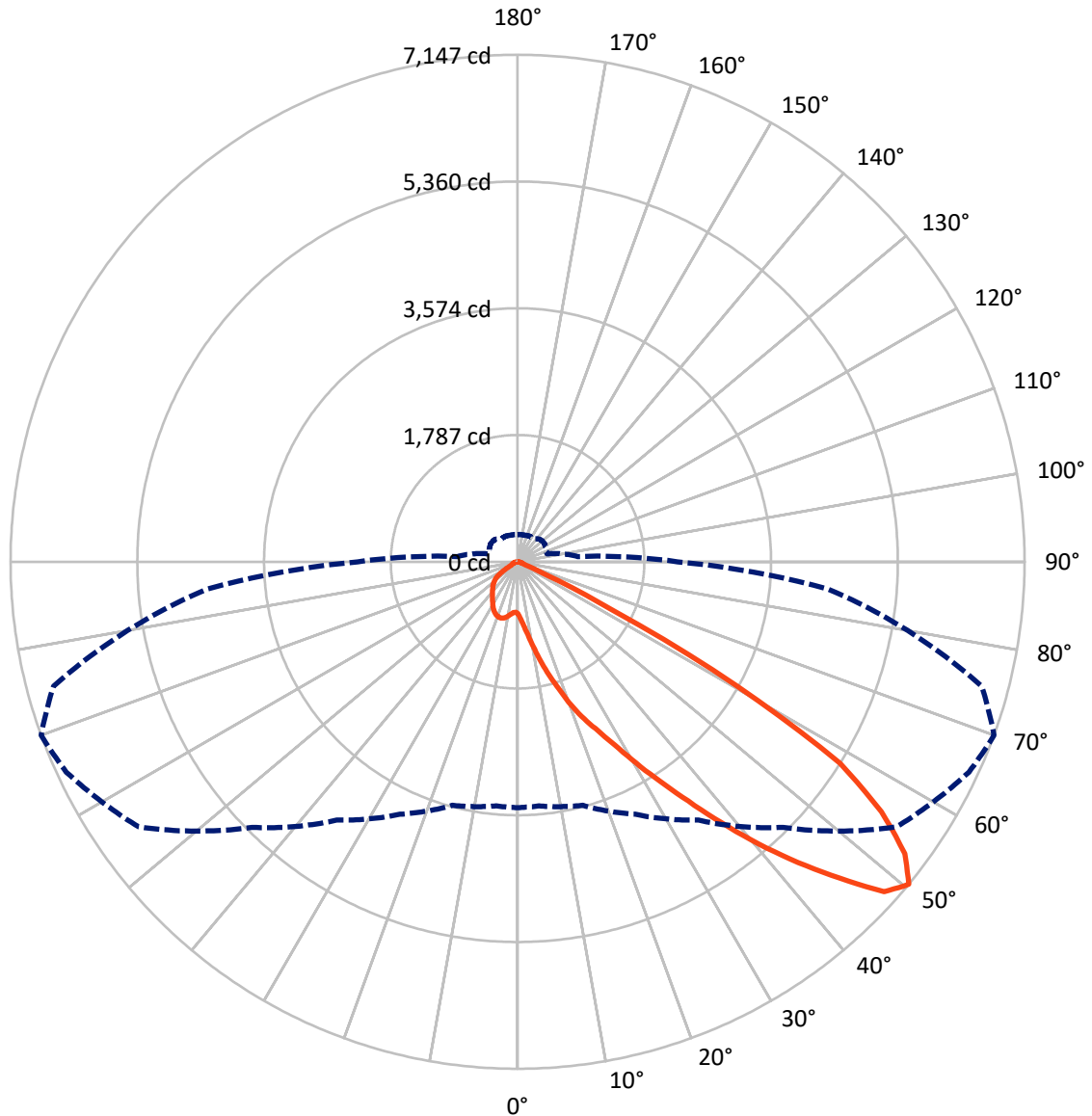
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical



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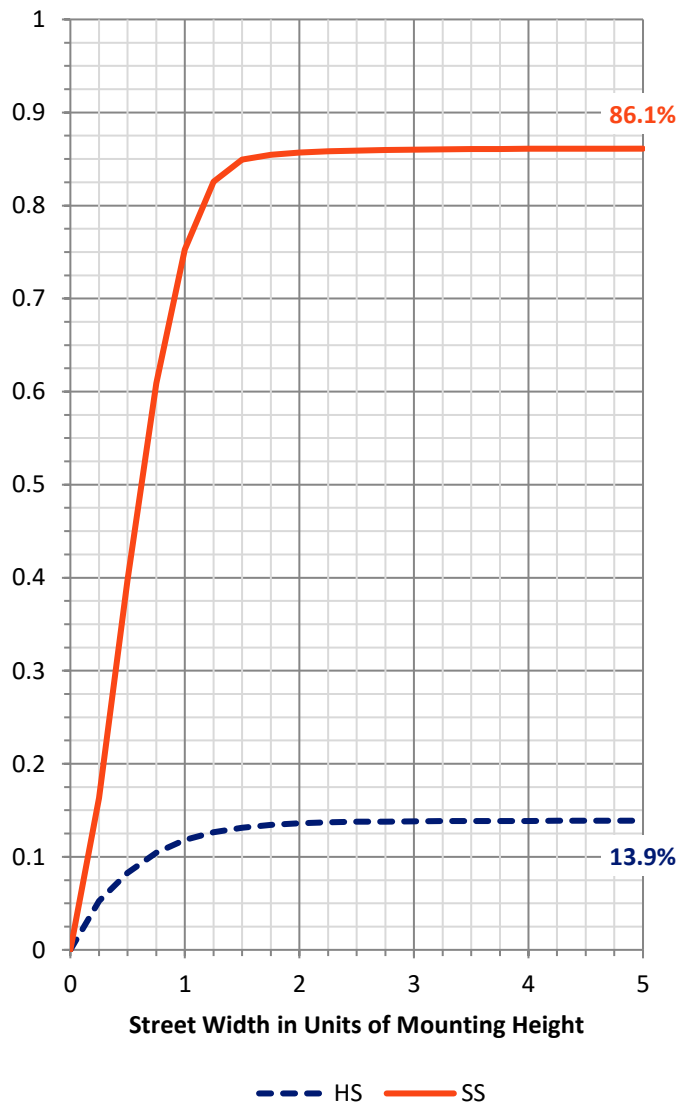
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	987.3	0.0	987.3
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	6082.4	0.0	6082.4
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	7069.7	0.0	7069.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.2	1.3
10°-20°	411.9	5.8
20°-30°	864.1	12.2
30°-40°	1489.4	21.1
40°-50°	2176.8	30.8
50°-60°	1695.4	24.0
60°-70°	287.2	4.1
70°-80°	39.5	0.6
80°-90°	10.2	0.1
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°	7069.7	100.0
0°-180°	7069.7	100.0

**Coefficient of Utilization**

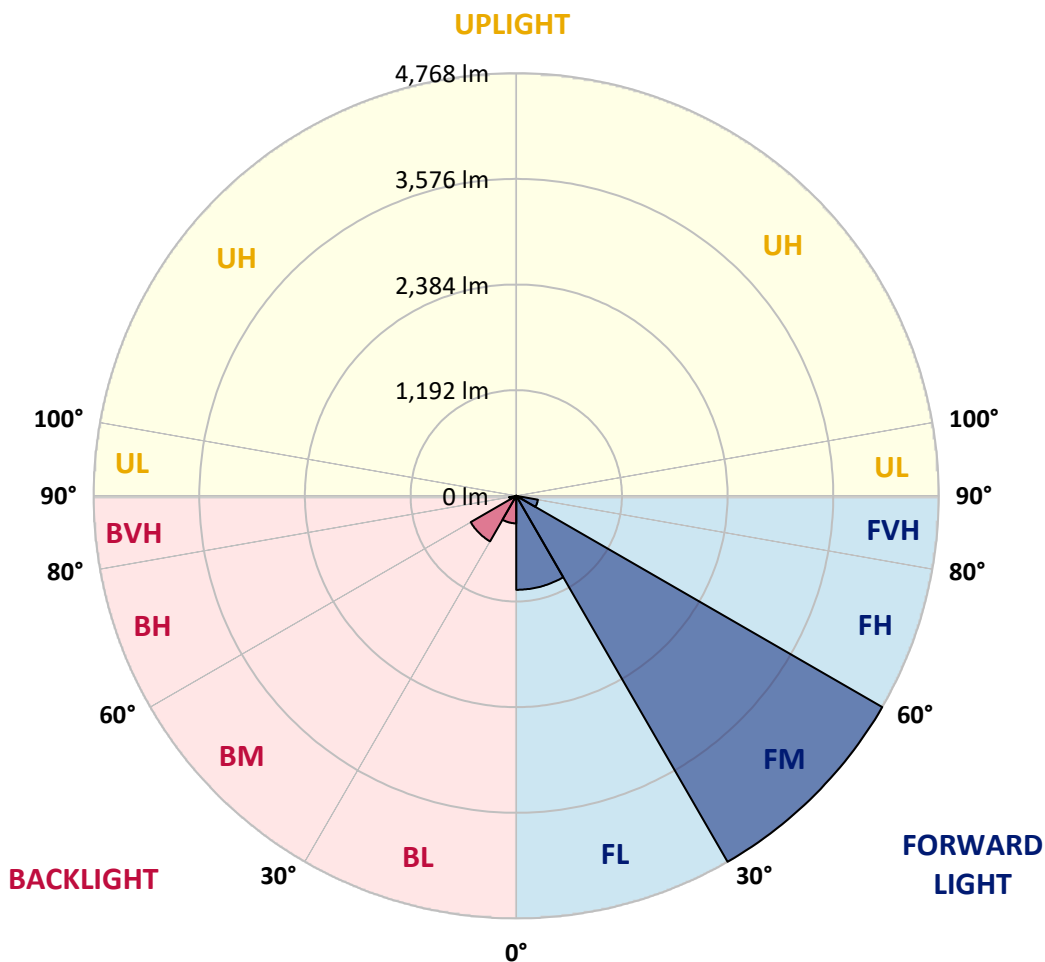


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1060.5	15.0			
FM (30°-60°)	4768.4	67.4			
FH (60°-80°)	248.7	3.5			G0/660
FVH (80°-90°)	4.7	0.1			G0/10
BL (0°-30°)	310.7	4.4	B1/500		
BM (30°-60°)	593.2	8.4	B1/1000		
BH (60°-80°)	78.0	1.1	B0/110		G0/110
BVH (80°-90°)	5.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	732.3	732.3	732.3	732.3	732.3	732.3	732.3	732.3	732.3	732.3	732.3
2.5°	958.9	952.0	936.9	909.0	897.3	869.4	853.2	821.8	802.0	779.9	755.5
5°	1350.7	1314.7	1292.5	1261.2	1169.3	1112.4	1018.2	938.0	900.8	860.1	804.4
7.5°	1755.2	1731.9	1701.7	1634.3	1571.5	1452.9	1291.4	1114.7	1039.1	969.4	859.0
10°	2089.9	2024.8	2021.3	1971.4	1902.8	1761.0	1566.9	1347.2	1212.3	1110.1	936.9
12.5°	2323.6	2264.3	2291.0	2285.2	2221.3	2091.1	1866.8	1576.2	1435.5	1276.3	1017.0
15°	2536.2	2511.9	2503.7	2496.8	2471.1	2374.7	2173.6	1855.1	1651.7	1459.9	1107.7
17.5°	2744.3	2681.5	2711.8	2717.6	2715.3	2628.1	2439.7	2120.1	1880.7	1654.0	1203.0
20°	2929.1	2934.9	2894.3	2886.1	2879.2	2875.6	2692.0	2382.8	2161.9	1857.4	1327.4
22.5°	3166.2	3125.6	3161.6	3138.3	3093.0	3065.1	2924.5	2615.3	2406.1	2102.7	1454.1
25°	3446.4	3478.9	3394.1	3384.8	3334.8	3238.3	3111.6	2875.6	2640.9	2330.5	1591.3
27.5°	3791.6	3734.7	3712.6	3661.4	3570.7	3530.1	3381.3	3144.1	2924.5	2570.0	1723.8
30°	4088.0	4072.9	3962.4	3902.0	3823.0	3821.8	3613.8	3508.0	3294.1	2945.4	1906.3
32.5°	4329.8	4263.5	4222.8	4181.0	4117.1	4134.5	3959.0	3903.2	3688.2	3294.1	2121.3
35°	4491.4	4443.7	4419.3	4355.4	4336.7	4414.6	4341.4	4318.2	4141.4	3784.6	2373.5
37.5°	4542.5	4557.6	4552.9	4472.7	4512.3	4722.7	4816.8	4756.3	4663.4	4301.9	2646.7
40°	4587.8	4598.2	4575.0	4669.2	4781.9	5021.4	5361.9	5262.0	5227.1	4826.1	3026.8
42.5°	4613.4	4605.2	4605.2	4768.0	4938.9	5420.1	5888.5	5822.2	5795.5	5384.0	3466.1
45°	4503.0	4424.0	4508.7	4729.6	5073.7	5616.5	6309.3	6401.1	6362.7	6047.7	3979.9
47.5°	4090.3	4139.2	4186.8	4482.0	4909.8	5556.0	6567.3	6880.0	6950.8	6605.6	4317.0
50°	3466.1	3455.7	3554.5	3926.4	4446.0	5295.7	6517.3	7018.3	7147.3	6773.0	4387.9
52.5°	2521.2	2597.8	2704.8	3074.4	3690.4	4621.5	5872.2	6661.5	6833.5	6567.3	4341.4
55°	1468.0	1383.2	1623.8	1936.5	2517.7	3485.9	4964.4	5904.8	6223.2	6193.0	4106.6
57.5°	588.2	569.6	652.1	878.8	1313.5	2160.8	3610.3	4851.6	5361.9	5672.3	3609.1
60°	258.1	252.2	296.4	358.0	537.0	996.1	1974.8	3017.4	3549.8	3963.6	2483.9
62.5°	186.0	183.6	205.8	227.9	283.6	433.5	829.9	1215.8	1515.7	1830.7	1112.4
65°	149.9	155.7	170.9	182.5	209.2	240.6	292.9	338.3	415.0	430.1	245.2
67.5°	122.1	126.7	140.6	153.5	158.1	130.2	134.8	118.5	118.5	105.8	84.9
70°	89.5	90.7	107.0	122.1	97.6	52.3	91.8	91.8	82.5	79.0	72.0
72.5°	66.2	67.4	80.2	75.6	38.4	32.6	67.4	74.4	67.4	63.9	58.1
75°	48.8	50.0	41.8	17.5	16.3	20.9	39.5	51.1	48.8	47.7	44.2
77.5°	9.3	7.0	5.8	8.1	11.6	17.5	25.6	31.4	32.6	34.8	32.6
80°	1.2	1.2	3.5	7.0	12.8	18.6	26.7	30.2	31.4	32.6	30.2
82.5°	0.0	1.2	3.5	7.0	12.8	17.5	23.3	26.7	29.0	30.2	29.0
85°	0.0	1.2	2.3	5.8	10.5	12.8	11.6	8.1	7.0	8.1	5.8
87.5°	0.0	0.0	1.2	1.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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°	732.3	732.3	732.3	732.3	732.3	732.3	732.3	732.3	732.3	732.3	732.3
2.5°	741.6	737.0	720.7	703.2	688.1	695.1	688.1	682.3	684.7	682.3	680.0
5°	782.3	761.3	726.5	711.4	698.6	697.4	693.9	692.8	693.9	693.9	683.5
7.5°	820.6	786.9	749.7	733.4	718.3	719.5	711.4	711.4	710.2	704.4	702.0
10°	878.8	833.4	785.7	756.7	738.1	734.6	726.5	718.3	718.3	718.3	706.7
12.5°	942.7	885.7	820.6	786.9	764.8	747.4	734.6	732.3	719.5	717.1	711.4
15°	998.5	926.4	843.8	797.4	769.5	746.2	726.5	713.7	707.9	704.4	699.8
17.5°	1053.1	961.3	856.7	797.4	767.2	740.4	719.5	707.9	693.9	696.2	686.9
20°	1126.3	998.5	860.1	782.3	745.1	719.5	691.6	685.8	677.7	670.6	673.0
22.5°	1197.2	1025.2	849.7	763.7	710.2	680.0	666.0	659.1	655.6	649.7	641.6
25°	1261.2	1054.2	833.4	730.0	673.0	650.9	638.1	637.0	628.8	628.8	613.7
27.5°	1326.2	1064.7	805.5	690.4	640.5	627.7	621.9	619.5	616.1	607.9	597.4
30°	1400.6	1068.2	764.8	649.7	611.4	597.4	605.6	611.4	596.3	581.1	585.8
32.5°	1462.3	1060.1	716.0	611.4	590.5	583.5	599.8	605.6	588.2	571.9	563.8
35°	1536.6	1040.3	668.4	581.1	569.6	583.5	597.4	597.4	562.6	542.9	538.2
37.5°	1649.4	1018.2	624.2	555.6	547.5	576.5	595.2	582.3	527.7	503.3	497.5
40°	1770.3	1004.3	581.1	530.0	535.8	564.9	575.3	535.8	480.1	464.9	460.3
42.5°	1945.8	976.4	542.9	507.9	525.4	548.6	548.6	477.7	456.8	448.7	447.5
45°	2164.3	956.6	509.1	489.4	510.3	516.1	497.5	447.5	432.4	430.1	431.2
47.5°	2271.2	918.2	474.3	467.3	482.4	483.5	434.7	423.1	410.3	406.8	404.5
50°	2255.0	849.7	428.9	438.2	459.2	447.5	396.4	398.7	387.0	385.9	380.1
52.5°	2141.0	741.6	383.6	405.7	428.9	395.2	365.0	362.7	362.7	347.6	341.7
55°	1898.1	597.4	328.9	356.8	384.8	332.5	324.3	322.0	316.2	302.2	298.7
57.5°	1502.9	438.2	247.6	277.8	326.6	282.4	281.3	270.8	255.7	245.2	245.2
60°	893.9	252.2	155.7	169.7	216.2	228.9	254.6	249.9	224.3	208.0	203.4
62.5°	408.0	130.2	98.8	101.2	116.2	148.8	199.9	231.3	195.3	167.4	165.1
65°	137.2	96.5	81.4	77.9	80.2	89.5	119.7	163.9	155.7	129.0	124.3
67.5°	83.7	86.1	76.7	70.9	70.9	69.8	68.6	74.4	91.8	89.5	90.7
70°	72.0	79.0	70.9	63.9	61.6	58.1	48.8	40.7	34.8	40.7	43.0
72.5°	58.1	62.8	60.4	54.7	48.8	44.2	34.8	26.7	19.7	17.5	17.5
75°	43.0	46.5	48.8	41.8	37.2	31.4	25.6	17.5	10.5	7.0	7.0
77.5°	31.4	34.8	36.0	32.6	27.9	22.1	16.3	11.6	5.8	2.3	2.3
80°	26.7	31.4	34.8	32.6	29.0	20.9	15.1	8.1	4.6	1.2	1.2
82.5°	25.6	31.4	34.8	31.4	27.9	19.7	15.1	9.3	3.5	1.2	1.2
85°	5.8	8.1	10.5	12.8	15.1	15.1	11.6	7.0	3.5	1.2	1.2
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.2	1.2	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)