

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: P647262

Luminaire Tested: **GALN-SA2D-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647262  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-835-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9086.7 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

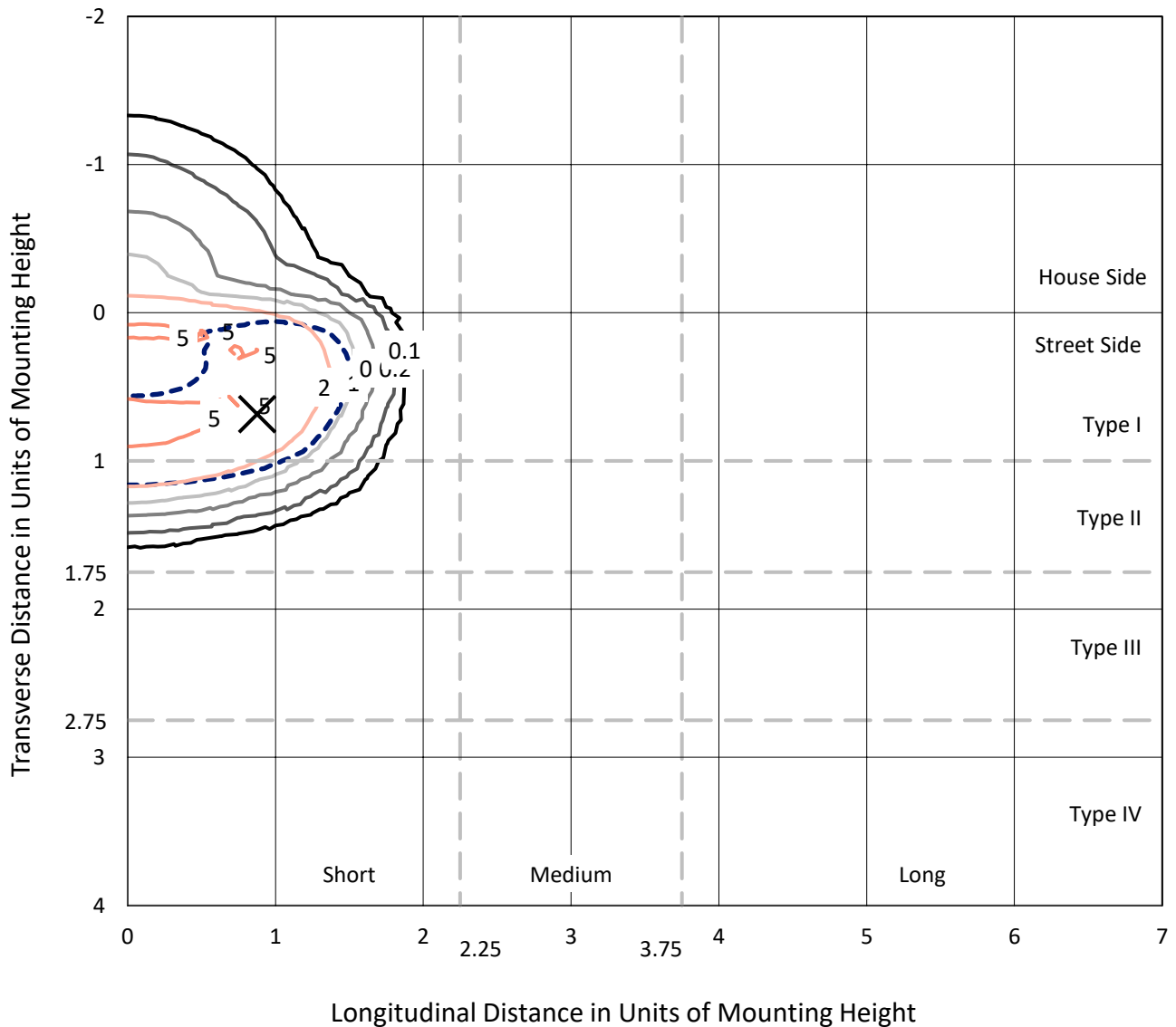
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

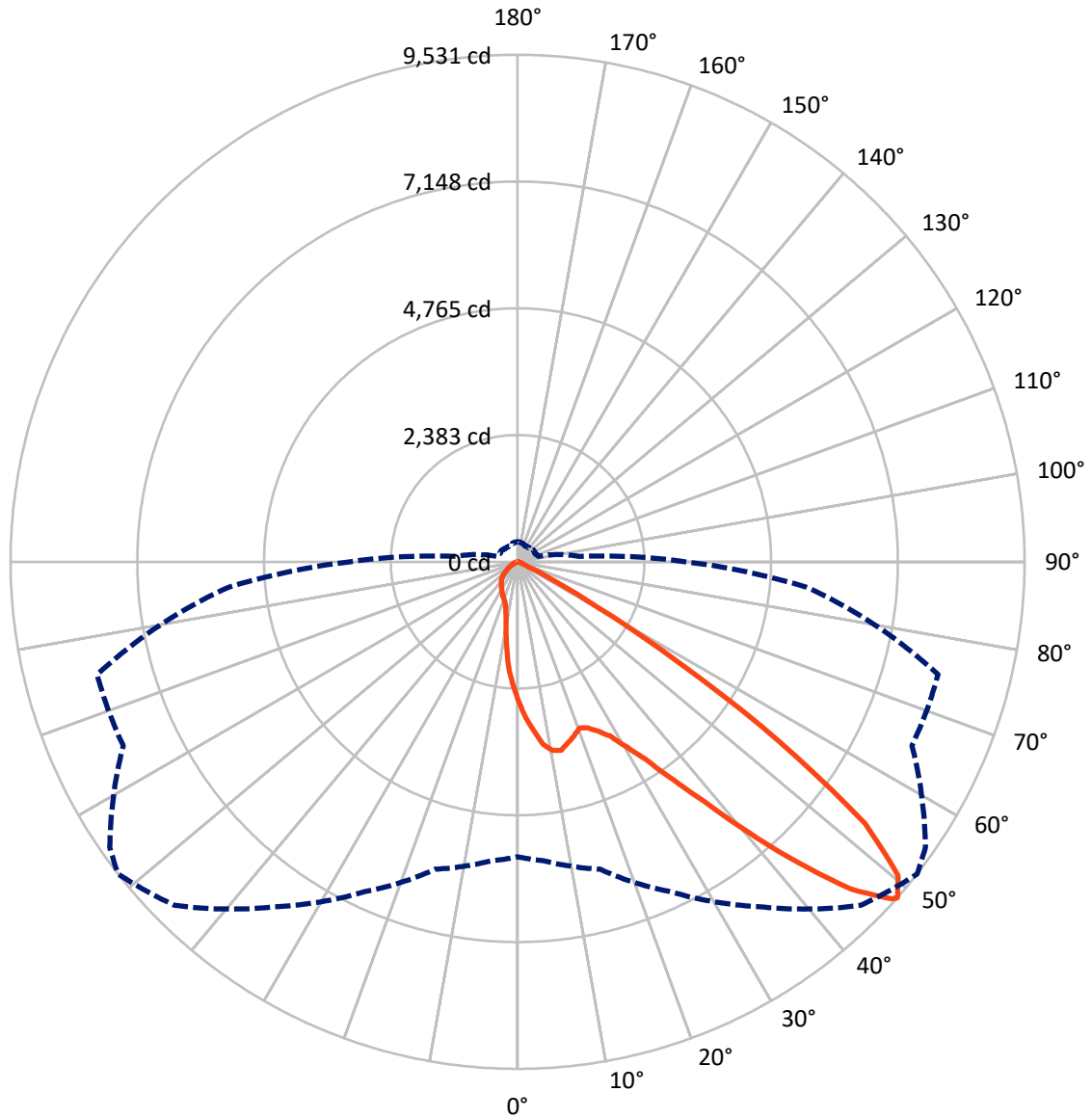
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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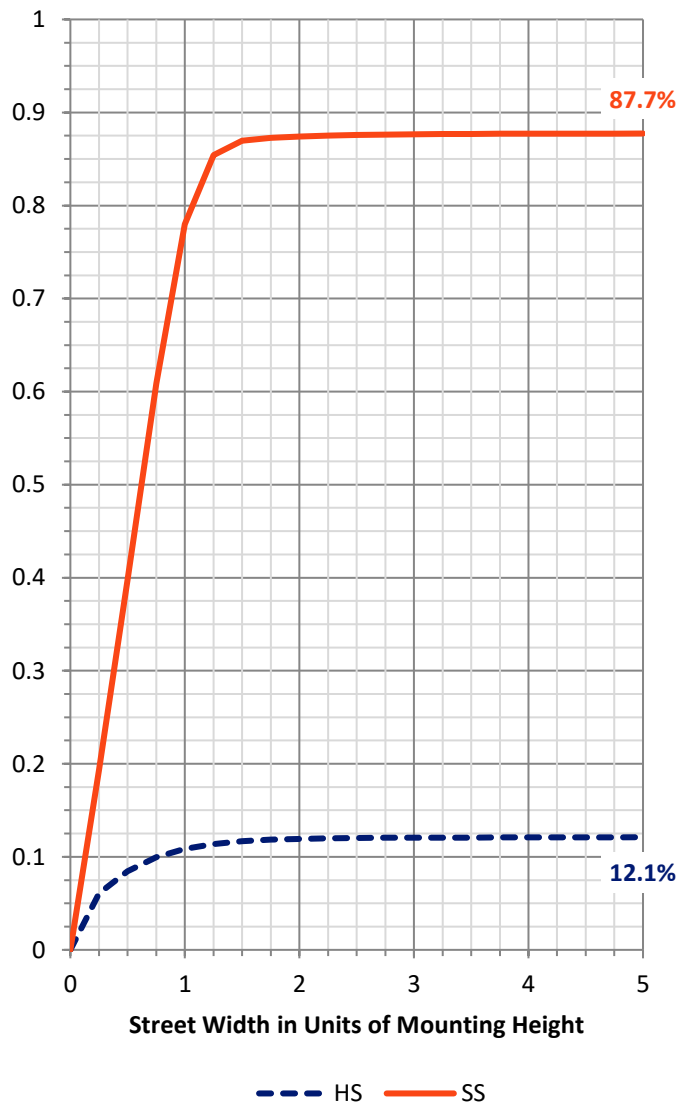
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1106.4	0.0	1106.4
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	7980.3	0.0	7980.3
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	9086.7	0.0	9086.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.2	2.6
10°-20°	627.7	6.9
20°-30°	1071.7	11.8
30°-40°	1973.5	21.7
40°-50°	3064.9	33.7
50°-60°	1844.5	20.3
60°-70°	213.3	2.3
70°-80°	41.3	0.5
80°-90°	9.6	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°	9086.7	100.0
0°-180°	9086.7	100.0

**Coefficient of Utilization**



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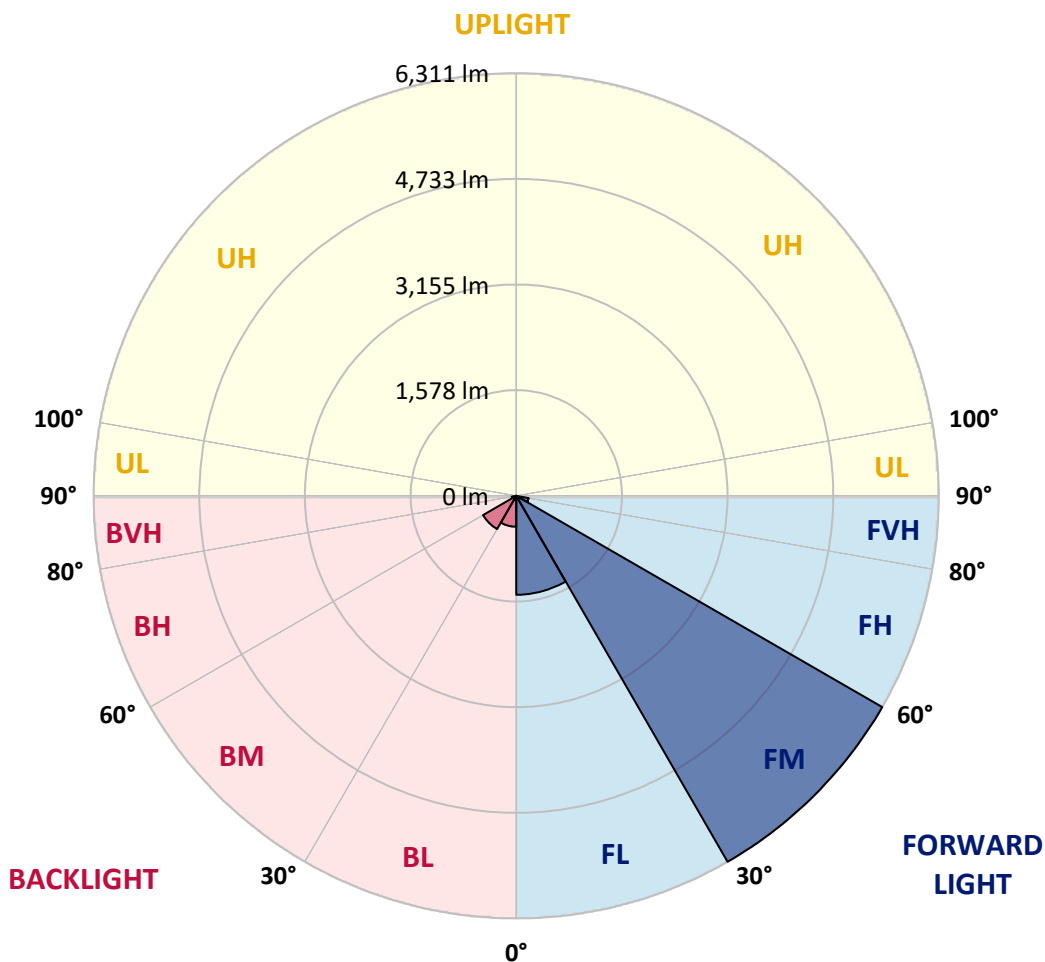
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1477.4	16.3			
FM (30°-60°)	6310.5	69.4			
FH (60°-80°)	187.9	2.1			G0/660
FVH (80°-90°)	4.6	0.1			G0/10
BL (0°-30°)	462.2	5.1	B1/500		
BM (30°-60°)	572.4	6.3	B1/1000		
BH (60°-80°)	66.8	0.7	B0/110		G0/110
BVH (80°-90°)	5.0	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2624.1	2624.1	2624.1	2624.1	2624.1	2624.1	2624.1	2624.1	2624.1	2624.1	2624.1
2.5°	3180.5	3107.6	3114.2	3066.5	3038.7	2993.6	2932.7	2920.8	2854.6	2764.5	2673.1
5°	3466.6	3449.3	3471.8	3403.0	3405.7	3331.4	3188.4	3191.0	3038.7	2891.7	2749.9
7.5°	3485.1	3445.4	3467.9	3528.8	3564.6	3551.3	3470.6	3400.3	3255.9	3040.0	2833.4
10°	3120.8	3196.4	3220.2	3320.9	3463.9	3615.0	3605.6	3609.6	3489.0	3206.9	2904.9
12.5°	2902.3	2851.9	2932.7	2993.6	3209.6	3502.4	3636.1	3665.2	3674.5	3368.5	2976.4
15°	2802.9	2802.9	2816.1	2833.4	2989.7	3259.9	3532.8	3617.5	3817.6	3580.5	3089.0
17.5°	2865.2	2862.5	2881.0	2845.3	2903.6	3111.6	3437.4	3534.1	3977.9	3788.5	3177.8
20°	3054.6	3063.9	3052.0	2948.6	2952.6	3108.9	3331.4	3483.8	4086.5	3968.6	3295.6
22.5°	3318.2	3323.5	3255.9	3143.4	3110.2	3187.0	3392.3	3508.9	4173.9	4184.5	3331.4
25°	3622.9	3601.6	3588.4	3429.5	3328.8	3395.0	3530.2	3597.7	4228.2	4369.9	3433.5
27.5°	4045.4	4003.0	3922.2	3780.5	3706.3	3612.3	3709.0	3820.3	4383.2	4629.6	3544.7
30°	4669.3	4632.2	4474.6	4291.8	4097.0	4004.3	4034.8	4095.8	4662.7	4930.2	3691.8
32.5°	5608.5	5530.3	5302.5	4954.1	4689.2	4433.5	4425.6	4490.5	4913.1	5346.2	3866.6
35°	6643.1	6619.2	6284.0	5925.0	5412.4	5017.7	5024.4	5058.7	5392.6	5891.9	4095.8
37.5°	7330.5	7461.7	7248.4	6862.9	6432.4	5868.1	5725.1	5737.0	6050.9	6538.4	4509.1
40°	7861.7	7750.4	7775.6	7685.5	7391.4	7007.3	6690.7	6628.5	6812.6	7253.7	4919.7
42.5°	7629.9	7635.2	7790.1	8003.4	8076.3	8048.5	7725.2	7607.3	7464.3	7839.2	5310.5
45°	6975.5	7111.9	7313.3	7877.6	8373.0	8838.0	8774.4	8578.3	7914.6	8302.8	5535.7
47.5°	5931.7	5926.4	6256.2	6990.1	8090.8	9179.7	9468.4	9330.7	8233.9	8251.1	5489.3
48°	5546.2	5641.6	5982.0	6845.7	7912.0	9129.4	9530.7	9357.2	8179.6	8182.3	5449.5
50°	4099.7	4082.5	4506.4	5566.1	7066.9	8578.3	9268.4	9403.5	8178.3	7833.8	5171.3
52.5°	2165.8	2239.9	2548.6	3499.7	4996.5	7020.5	8175.6	8386.2	7889.5	7264.3	4771.3
55°	920.7	831.9	1069.0	1580.3	2810.9	4690.5	5997.9	6466.9	6670.8	6428.4	4173.9
57.5°	328.5	359.0	413.3	594.8	1181.5	2567.1	3576.5	3940.8	4621.7	4717.0	2844.0
60°	210.6	214.6	231.8	272.9	443.7	989.5	1696.8	1986.9	2295.6	2369.7	1327.3
62.5°	162.9	164.3	172.2	178.8	210.6	384.1	637.1	755.0	784.2	674.2	348.4
65°	136.4	137.7	140.4	140.4	149.7	180.2	222.5	245.1	238.4	235.8	197.4
67.5°	104.6	107.3	112.6	112.6	117.9	109.9	123.2	131.2	148.4	180.2	168.3
70°	82.1	83.5	87.5	90.0	90.0	79.5	88.7	96.7	108.6	133.8	132.5
72.5°	63.6	66.2	68.9	68.9	64.9	54.3	63.6	70.2	78.1	92.7	90.0
75°	49.0	49.0	50.3	41.0	31.8	27.8	38.4	46.4	58.3	60.9	50.3
77.5°	13.2	14.6	13.2	11.9	13.2	19.9	25.1	29.1	37.1	37.1	33.1
80°	0.0	1.3	4.0	8.0	13.2	18.6	22.6	25.1	29.1	31.8	30.5
82.5°	0.0	1.3	4.0	8.0	11.9	14.6	19.9	21.2	23.9	27.8	27.8
85°	0.0	1.3	2.7	5.3	8.0	9.2	9.2	8.0	8.0	6.7	5.3
87.5°	0.0	0.0	1.3	2.7	2.7	4.0	4.0	4.0	4.0	4.0	4.0
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°	2624.1	2624.1	2624.1	2624.1	2624.1	2624.1	2624.1	2624.1	2624.1	2624.1	2624.1
2.5°	2637.3	2596.3	2534.0	2436.0	2342.0	2281.0	2222.7	2157.8	2122.1	2119.4	2099.5
5°	2669.2	2576.4	2428.1	2259.8	2079.6	1924.7	1768.4	1666.4	1575.0	1524.7	1515.3
7.5°	2686.3	2565.8	2326.1	2043.9	1736.6	1483.6	1308.7	1180.2	1129.9	1092.8	1091.5
10°	2722.1	2547.3	2173.7	1757.8	1377.6	1122.0	1001.5	943.1	915.3	904.8	888.9
12.5°	2748.6	2512.8	2017.4	1463.7	1088.8	929.9	876.9	863.6	865.0	870.3	863.6
15°	2785.7	2482.3	1806.8	1201.4	914.0	837.2	837.2	839.8	858.3	861.0	859.7
17.5°	2783.0	2422.8	1589.6	989.5	808.1	797.4	801.4	826.5	838.5	842.4	833.2
20°	2814.8	2367.1	1365.7	845.1	748.4	764.3	790.8	797.4	812.0	814.6	804.1
22.5°	2805.6	2228.0	1157.7	731.2	703.4	733.8	760.4	768.3	764.3	756.4	755.0
25°	2788.3	2108.8	967.0	655.7	670.2	703.4	728.6	713.9	706.0	707.4	708.7
27.5°	2757.9	1957.8	809.4	602.7	625.2	674.2	672.9	667.6	675.6	668.9	675.6
30°	2752.6	1806.8	679.6	555.0	592.1	627.9	630.5	639.8	649.1	637.1	649.1
32.5°	2760.5	1641.2	586.8	525.9	572.2	573.5	602.7	612.0	605.3	578.9	581.5
35°	2821.5	1514.1	519.3	510.0	540.4	541.8	569.6	557.7	528.5	512.6	521.9
37.5°	2950.0	1408.1	487.5	495.4	498.1	515.3	516.6	492.7	495.4	494.1	499.4
40°	3114.2	1327.3	464.9	482.2	479.5	491.4	443.7	457.0	468.9	472.9	475.5
42.5°	3226.8	1269.0	450.4	461.0	455.7	434.5	408.0	421.3	430.5	445.1	447.7
45°	3277.2	1222.7	433.2	423.9	423.9	385.5	374.9	377.5	398.7	414.6	411.9
47.5°	3195.0	1177.6	402.7	374.9	384.1	352.4	340.4	340.4	362.9	382.8	378.8
48°	3163.2	1159.1	404.0	364.3	370.9	347.0	335.1	332.5	357.7	376.2	376.2
50°	3005.6	1090.2	369.6	335.1	321.9	319.2	311.3	313.9	329.8	347.0	347.0
52.5°	2698.3	941.8	312.6	287.4	263.6	279.5	283.4	278.2	286.1	302.0	300.7
55°	2251.9	723.3	250.3	238.4	219.9	237.1	245.1	238.4	230.5	242.4	242.4
57.5°	1442.5	389.5	200.1	202.6	184.2	201.3	208.0	192.1	177.5	186.7	185.4
60°	650.4	233.1	164.3	160.3	148.4	168.3	178.8	160.3	140.4	147.0	153.6
62.5°	243.7	165.6	124.5	121.8	119.3	137.7	143.1	128.5	108.6	112.6	113.9
65°	178.8	145.7	99.4	90.0	95.4	108.6	105.9	91.4	78.1	78.1	80.8
67.5°	152.3	127.2	80.8	70.2	70.2	71.6	66.2	58.3	54.3	56.9	59.6
70°	119.3	100.7	63.6	54.3	49.0	43.7	38.4	37.1	33.1	37.1	35.8
72.5°	76.8	67.6	49.0	41.0	37.1	30.5	25.1	23.9	19.9	18.6	18.6
75°	41.0	41.0	38.4	33.1	29.1	23.9	19.9	15.9	10.6	8.0	8.0
77.5°	29.1	31.8	34.5	31.8	26.5	19.9	15.9	10.6	5.3	2.7	2.7
80°	27.8	31.8	34.5	30.5	26.5	19.9	14.6	8.0	4.0	1.3	1.3
82.5°	25.1	29.1	31.8	27.8	23.9	17.2	13.2	8.0	4.0	1.3	1.3
85°	5.3	6.7	8.0	8.0	9.2	11.9	9.2	6.7	2.7	1.3	1.3
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	2.7	2.7	1.3	1.3	1.3
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)