

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: P529115

Luminaire Tested: **GALN-SA4B-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529115  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-730-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11966 lumens  
Efficiency: N/A  
Efficacy: 73.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

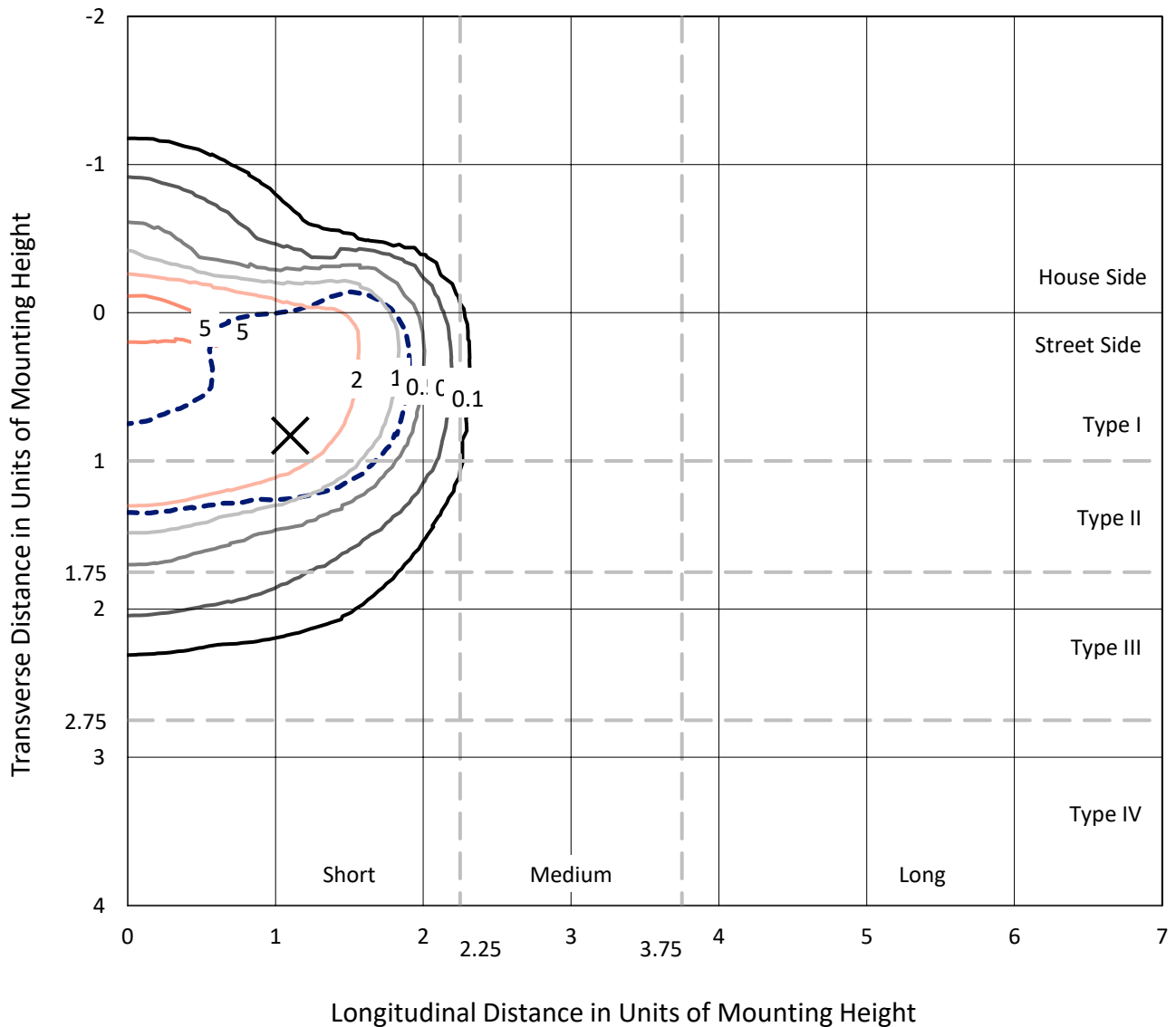
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

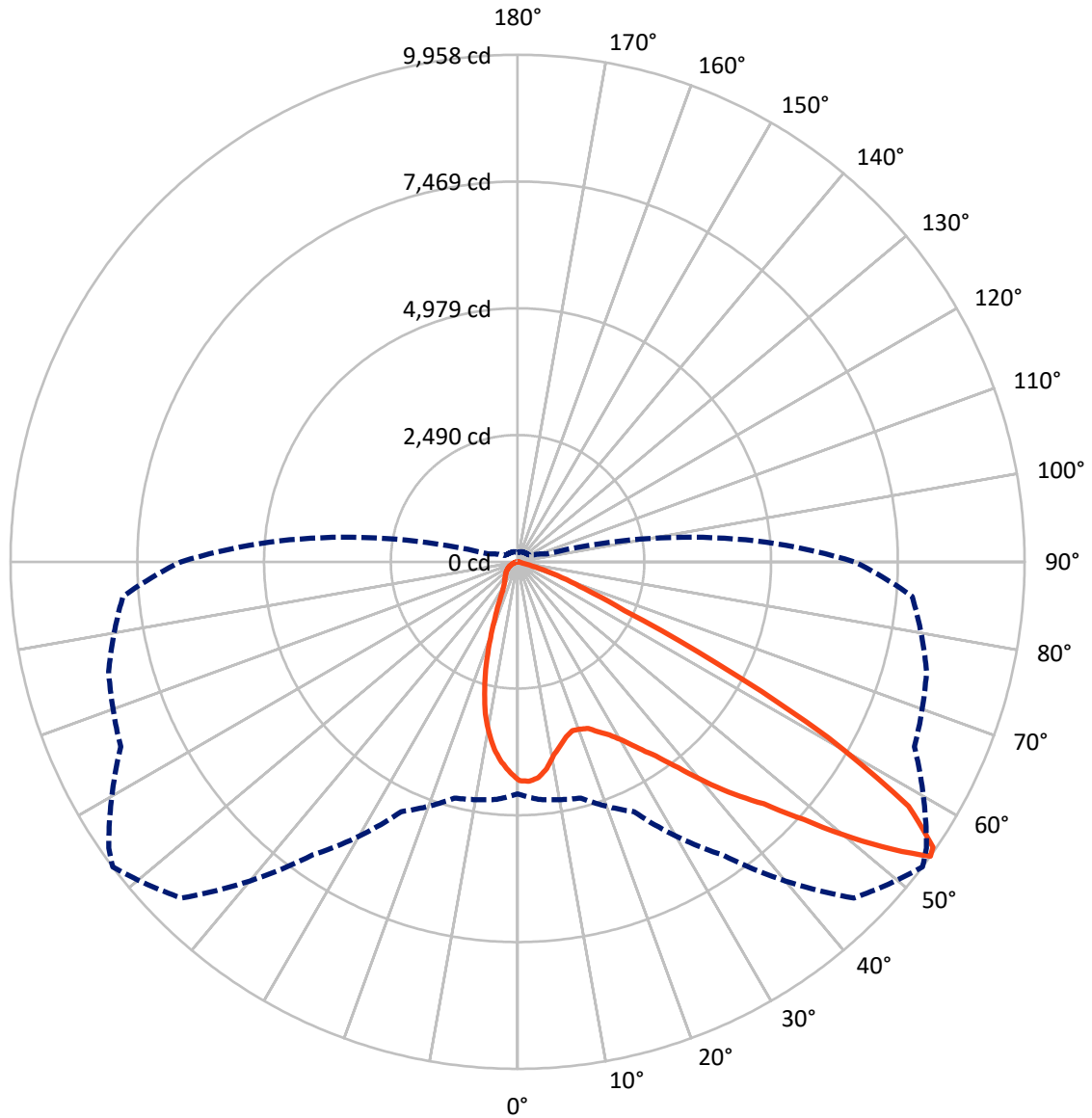
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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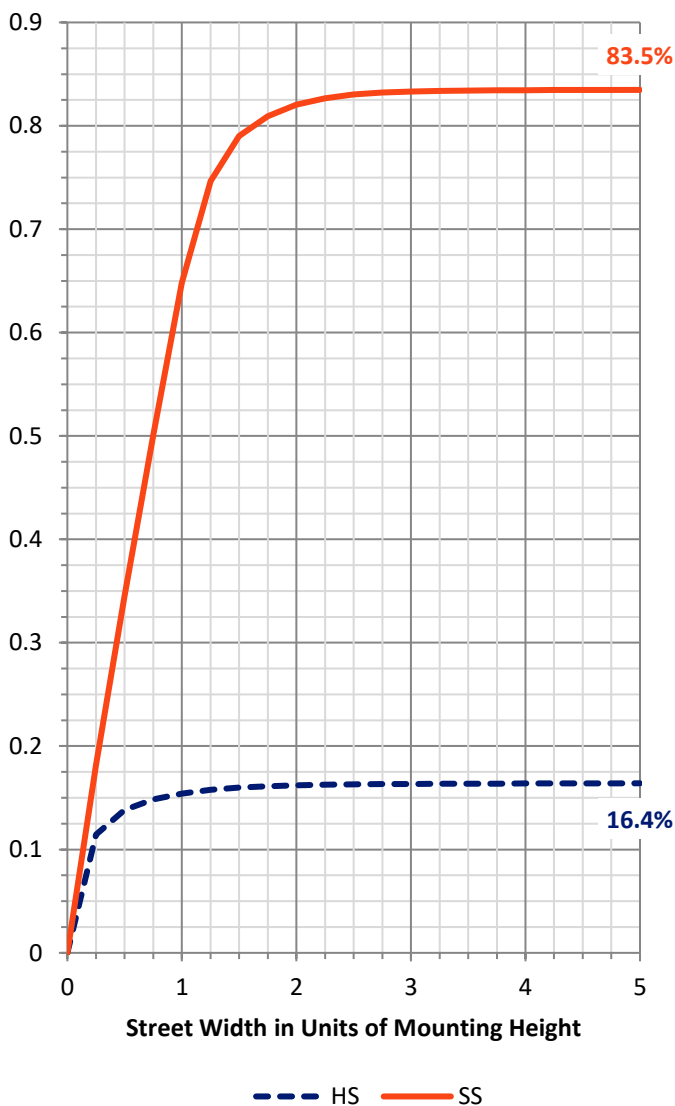
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1979.8	0.0	1979.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	9986.2	0.0	9986.2
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	11966.0	0.0	11966.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	368.8	3.1
10°-20°	845.4	7.1
20°-30°	1201.6	10.0
30°-40°	1854.3	15.5
40°-50°	2907.4	24.3
50°-60°	3377.3	28.2
60°-70°	1276.2	10.7
70°-80°	121.4	1.0
80°-90°	13.7	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°	11966.0	100.0
0°-180°	11966.0	100.0

**Coefficient of Utilization**



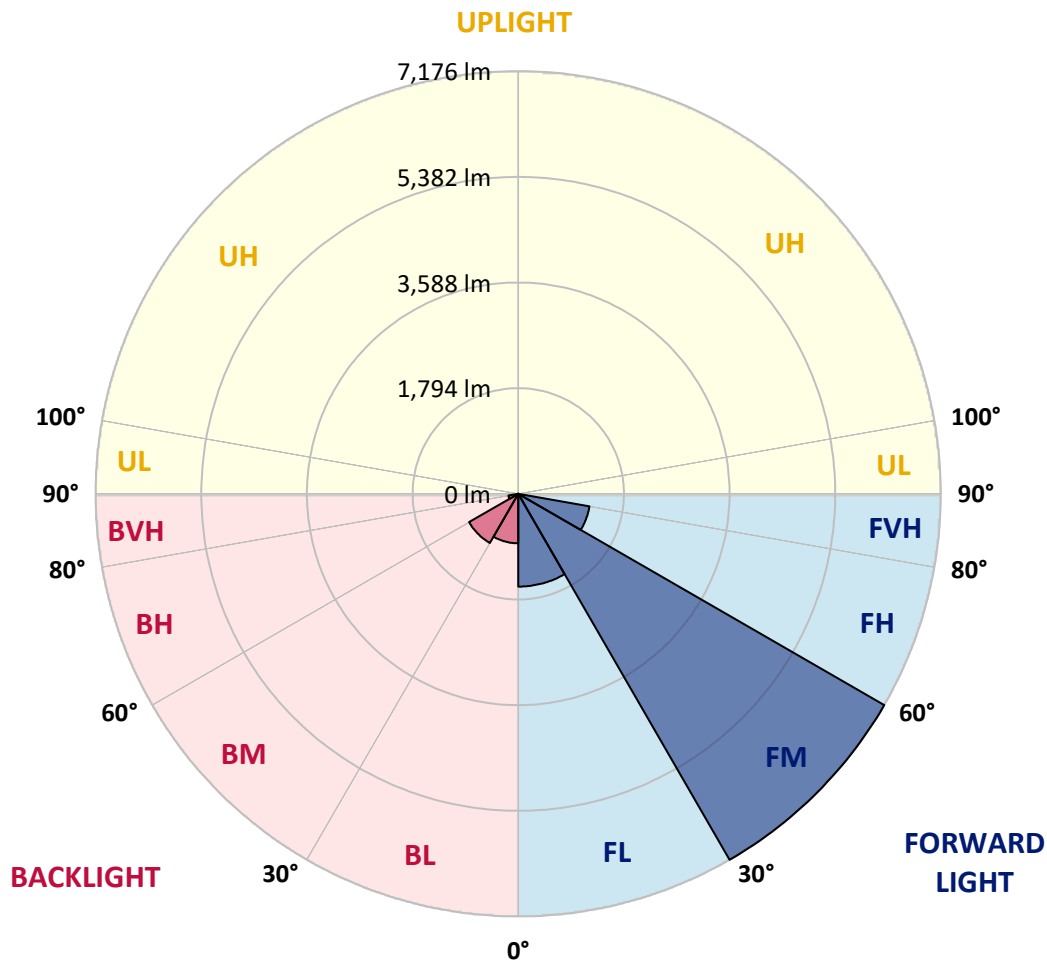
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1575.6	13.2			
FM (30°-60°)	7175.6	60.0			
FH (60°-80°)	1227.9	10.3			G1/1800
FVH (80°-90°)	7.1	0.1			G0/10
BL (0°-30°)	840.1	7.0	B2/1000		
BM (30°-60°)	963.4	8.1	B1/1000		
BH (60°-80°)	169.6	1.4	B1/500		G1/500
BVH (80°-90°)	6.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0
2.5°	4275.7	4237.8	4275.7	4280.2	4306.9	4331.4	4315.8	4351.5	4331.4	4309.1	4302.4
5°	3930.2	3981.4	3983.7	4063.9	4046.1	4193.2	4257.9	4240.0	4349.3	4342.6	4327.0
7.5°	3620.3	3600.2	3627.0	3720.6	3838.8	4008.2	4101.8	4099.6	4255.6	4367.1	4355.9
10°	3332.7	3330.5	3386.2	3459.8	3560.1	3738.4	3867.7	3932.4	4175.4	4344.8	4369.3
12.5°	3138.8	3129.9	3190.1	3250.2	3408.5	3546.7	3711.7	3742.9	4021.6	4266.8	4306.9
15°	3011.7	3031.8	3036.2	3152.2	3252.5	3435.3	3564.6	3629.2	3950.2	4204.4	4358.2
17.5°	2989.4	3016.2	3018.4	3114.3	3221.3	3375.1	3488.8	3575.7	3890.0	4235.6	4360.4
20°	3034.0	3018.4	3031.8	3092.0	3196.7	3343.9	3508.8	3537.8	3870.0	4251.2	4384.9
22.5°	3161.1	3156.6	3123.2	3172.2	3245.8	3399.6	3555.6	3600.2	3927.9	4331.4	4405.0
25°	3301.5	3326.0	3294.8	3288.1	3339.4	3491.0	3698.3	3756.3	4121.9	4476.3	4467.4
27.5°	3564.6	3540.0	3540.0	3508.8	3495.5	3569.0	3852.1	3948.0	4338.1	4663.6	4538.7
30°	3816.5	3843.2	3823.2	3834.3	3745.1	3738.4	4070.6	4188.8	4721.5	4948.9	4690.3
32.5°	4215.5	4179.8	4213.3	4184.3	4066.1	3945.8	4367.1	4489.7	5185.2	5276.6	4917.7
35°	4547.7	4532.1	4674.7	4670.3	4478.6	4360.4	4681.4	4864.2	5508.5	5669.0	5185.2
37.5°	5020.3	4991.3	5154.0	5232.0	5060.4	4884.3	5131.7	5343.5	5809.4	5983.3	5459.4
40°	5506.2	5579.8	5798.3	5927.6	5744.8	5510.7	5682.3	5747.0	6010.0	6188.4	5646.7
42.5°	6121.5	6228.5	6451.4	6562.9	6547.3	6293.2	6241.9	6239.7	6154.9	6130.4	5784.9
45°	6712.3	6672.1	7015.4	7258.4	7454.6	7381.0	6781.4	6714.5	6384.6	6217.4	5820.6
47.5°	6970.9	6957.5	7191.5	7624.0	8292.8	8384.2	7566.1	7307.5	6772.4	6583.0	6014.5
50°	6636.5	6705.6	6937.4	7416.7	8442.2	9139.9	8529.1	8181.3	7225.0	7028.8	6473.7
52.5°	5544.1	5590.9	5811.6	6420.2	7933.9	9585.8	9452.0	9251.4	8056.5	7731.0	7274.0
54°	4558.8	4683.6	4804.0	5414.8	7028.8	9338.3	9958.0	9804.2	8598.2	8315.1	7777.8
55°	3970.3	4043.9	4130.8	4739.4	6402.4	8919.2	9900.1	9913.5	8961.6	8497.9	8116.7
57.5°	2900.2	2951.5	2862.4	3132.1	4396.1	7242.8	9055.2	9416.3	9452.0	8772.1	8324.0
60°	2215.9	2238.2	2137.8	2180.2	2733.1	4971.2	7004.3	7439.0	8526.9	7666.4	7051.1
62.5°	1718.7	1723.2	1721.0	1794.5	1883.7	2924.8	4380.5	4766.1	5878.5	5443.8	4788.4
65°	1266.2	1246.1	1281.8	1504.7	1607.3	1839.1	2307.3	2588.2	3194.5	2697.4	1928.3
67.5°	820.4	827.1	862.7	1119.1	1377.7	1411.1	1420.0	1397.7	1400.0	771.3	483.7
70°	492.7	503.8	492.7	633.1	985.3	1012.1	925.1	902.8	704.4	182.8	180.6
72.5°	292.0	276.4	247.4	272.0	410.2	490.4	441.4	439.2	276.4	107.0	107.0
75°	122.6	111.5	91.4	82.5	109.2	104.8	104.8	93.6	73.6	71.3	66.9
77.5°	24.5	24.5	17.8	20.1	26.8	31.2	37.9	37.9	44.6	44.6	42.4
80°	0.0	2.2	6.7	13.4	20.1	29.0	33.4	33.4	37.9	37.9	31.2
82.5°	0.0	2.2	6.7	13.4	17.8	26.8	33.4	33.4	37.9	40.1	33.4
85°	0.0	2.2	6.7	11.1	17.8	22.3	22.3	20.1	15.6	13.4	8.9
87.5°	0.0	0.0	2.2	4.5	2.2	4.5	4.5	4.5	4.5	4.5	4.5
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°	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0
2.5°	4318.0	4315.8	4262.3	4175.4	4155.3	4081.7	4072.8	4028.2	4052.8	3970.3	3961.4
5°	4282.4	4255.6	4191.0	4135.3	3972.5	3856.6	3765.2	3653.7	3589.1	3600.2	3557.9
7.5°	4333.7	4264.5	4150.9	3956.9	3758.5	3555.6	3446.4	3219.0	3136.5	3013.9	2996.1
10°	4280.2	4228.9	4052.8	3731.8	3457.6	3165.5	2909.2	2657.3	2465.5	2383.1	2365.2
12.5°	4275.7	4186.5	3892.3	3535.6	3138.8	2719.7	2347.4	2033.1	1843.6	1736.6	1712.1
15°	4206.6	4099.6	3711.7	3232.4	2684.0	2162.4	1756.6	1453.5	1308.6	1246.1	1264.0
17.5°	4213.3	4052.8	3531.1	2911.4	2235.9	1587.2	1199.3	1043.3	1005.4	1021.0	1021.0
20°	4206.6	3948.0	3312.7	2541.3	1712.1	1101.2	880.6	824.8	849.3	898.4	887.2
22.5°	4170.9	3899.0	3112.0	2151.2	1259.5	815.9	706.7	708.9	746.8	807.0	820.4
25°	4197.7	3789.7	2857.9	1756.6	918.4	650.9	613.0	628.6	668.8	713.4	722.3
27.5°	4177.6	3711.7	2592.6	1364.3	671.0	559.5	557.3	575.1	593.0	626.4	626.4
30°	4199.9	3640.4	2331.8	1014.3	552.9	512.7	503.8	517.2	535.0	541.7	539.5
32.5°	4282.4	3586.9	2030.8	757.9	488.2	468.1	468.1	468.1	465.9	474.8	477.1
35°	4462.9	3595.8	1765.6	586.3	445.8	430.2	423.6	414.6	410.2	414.6	416.9
37.5°	4659.1	3591.3	1491.4	499.4	414.6	401.3	385.7	372.3	370.1	374.5	367.8
40°	4746.1	3633.7	1237.2	448.1	385.7	370.1	345.5	334.4	336.6	341.1	336.6
42.5°	4864.2	3647.0	1072.3	408.0	358.9	334.4	318.8	305.4	303.2	309.9	307.6
45°	4862.0	3571.3	898.4	385.7	334.4	307.6	287.6	276.4	276.4	280.9	283.1
47.5°	5004.7	3560.1	771.3	365.6	316.6	289.8	265.3	256.4	254.1	254.1	249.7
50°	5336.8	3716.2	673.2	343.3	294.3	269.7	249.7	238.5	229.6	225.2	222.9
52.5°	5985.5	4202.1	597.4	316.6	269.7	249.7	231.8	222.9	211.8	200.6	198.4
54°	6614.2	4703.7	593.0	294.3	249.7	236.3	220.7	216.2	202.9	187.3	182.8
55°	6897.3	4995.7	608.6	276.4	236.3	227.4	214.0	209.5	196.2	178.3	176.1
57.5°	7131.4	5109.4	599.7	229.6	214.0	211.8	200.6	193.9	178.3	153.8	149.4
60°	5740.3	3863.3	430.2	202.9	196.2	191.7	182.8	178.3	158.3	131.5	129.3
62.5°	3627.0	2222.6	274.2	178.3	171.7	165.0	153.8	149.4	131.5	104.8	98.1
65°	1544.9	920.7	185.0	158.3	147.1	136.0	127.1	120.4	104.8	78.0	75.8
67.5°	401.3	327.7	153.8	138.2	122.6	107.0	100.3	89.2	71.3	53.5	51.3
70°	180.6	165.0	129.3	115.9	98.1	82.5	73.6	62.4	46.8	35.7	33.4
72.5°	107.0	104.8	98.1	86.9	73.6	62.4	53.5	42.4	31.2	20.1	20.1
75°	66.9	64.6	66.9	60.2	51.3	46.8	40.1	29.0	17.8	8.9	8.9
77.5°	40.1	40.1	40.1	37.9	35.7	35.7	29.0	17.8	8.9	2.2	2.2
80°	31.2	31.2	33.4	31.2	31.2	31.2	24.5	13.4	4.5	0.0	0.0
82.5°	31.2	33.4	37.9	35.7	31.2	26.8	22.3	13.4	4.5	0.0	0.0
85°	8.9	6.7	11.1	15.6	22.3	20.1	15.6	11.1	4.5	0.0	0.0
87.5°	4.5	4.5	4.5	4.5	2.2	2.2	2.2	2.2	2.2	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)