

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: P651284

Luminaire Tested: **GALN-SA3D-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651284  
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-SA3D-840-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 1200mA 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: 11336.7 lumens  
Efficiency: N/A  
Efficacy: 61.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

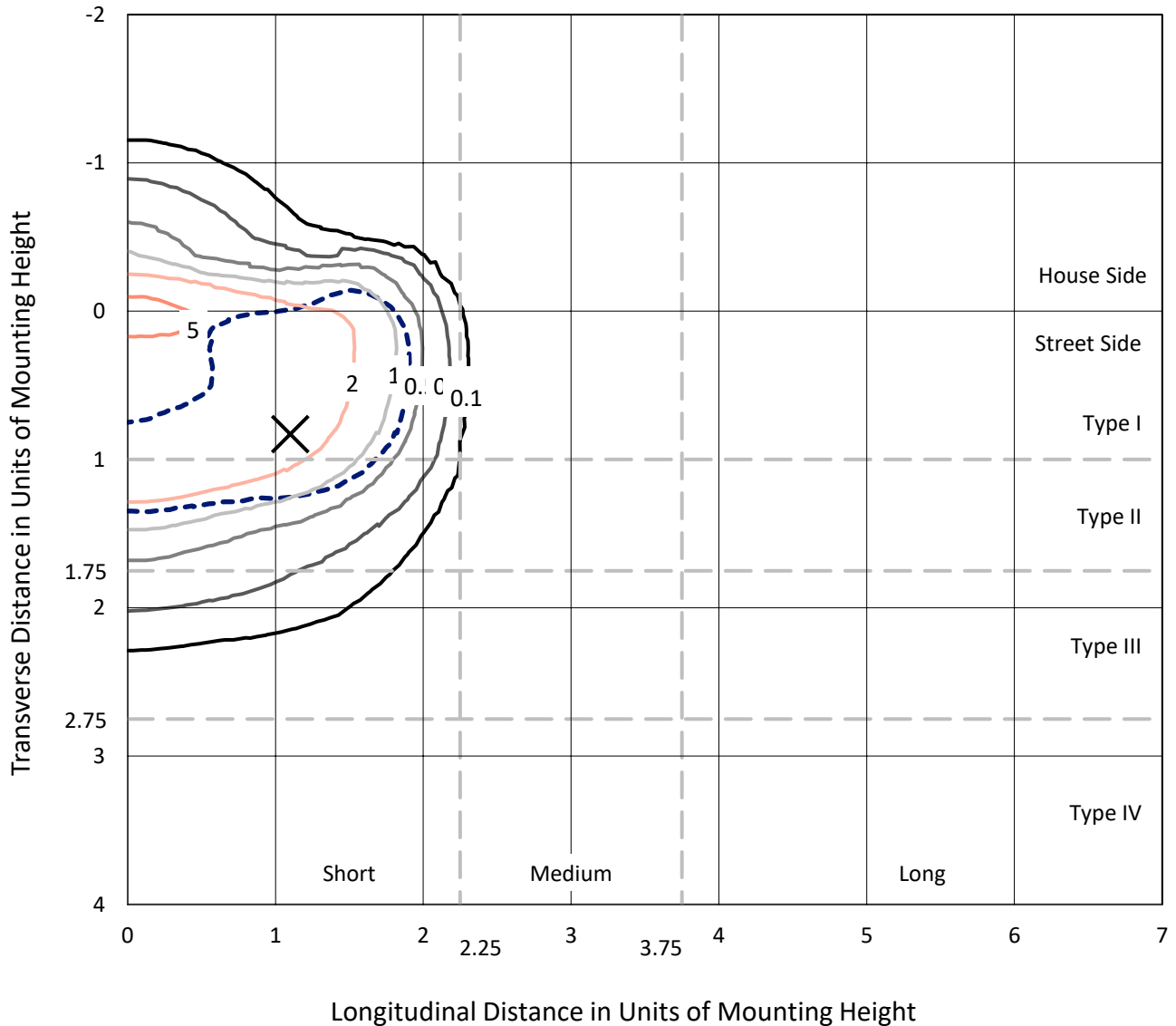
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

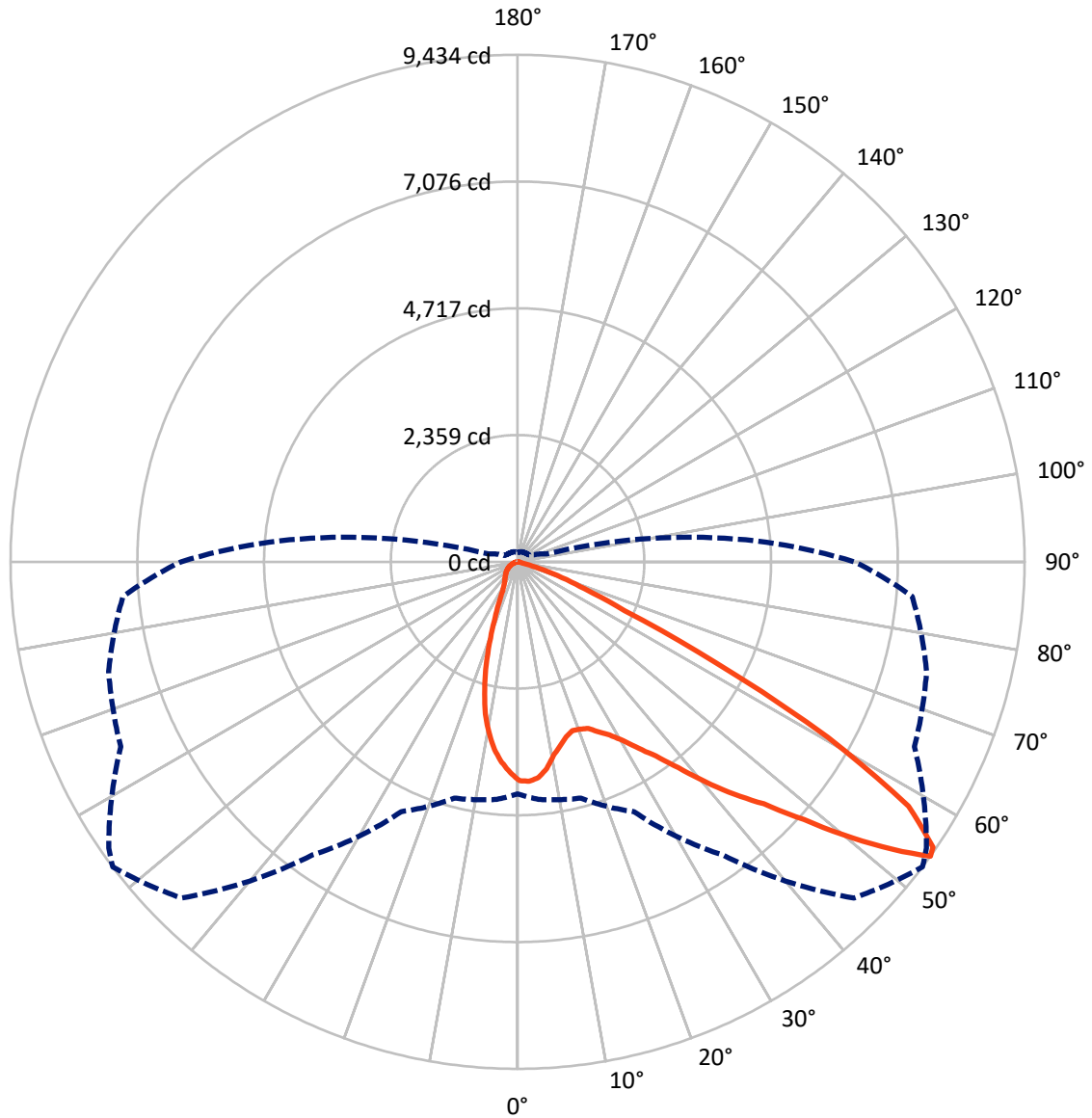
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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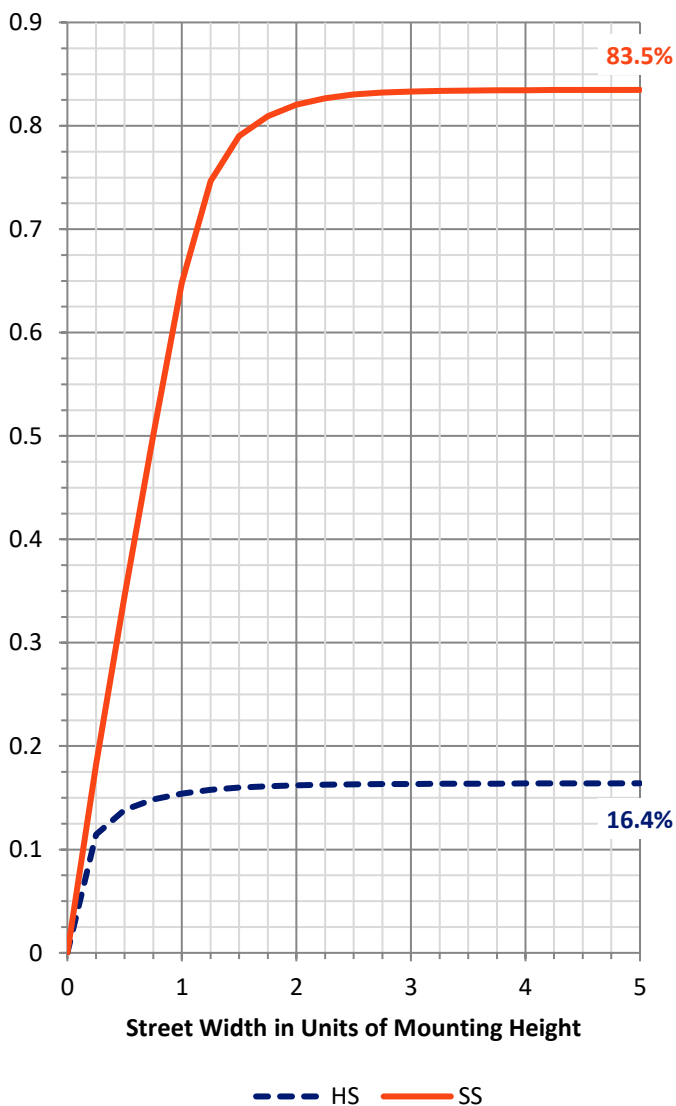
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1875.7	0.0	1875.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	9461.0	0.0	9461.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	11336.7	0.0	11336.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.4	3.1
10°-20°	801.0	7.1
20°-30°	1138.4	10.0
30°-40°	1756.8	15.5
40°-50°	2754.5	24.3
50°-60°	3199.7	28.2
60°-70°	1209.0	10.7
70°-80°	115.0	1.0
80°-90°	12.9	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°	11336.7	100.0
0°-180°	11336.7	100.0

**Coefficient of Utilization**

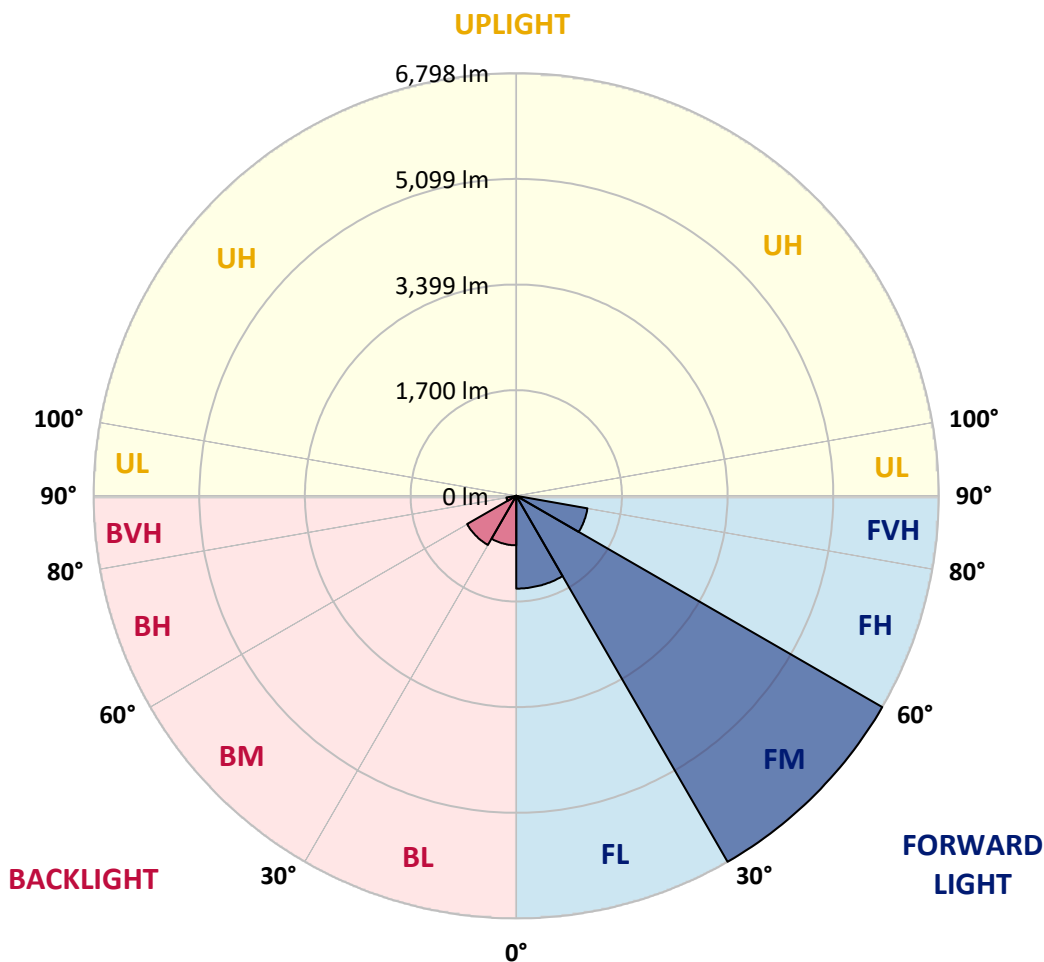


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1492.7	13.2			
FM (30°-60°)	6798.2	60.0			
FH (60°-80°)	1163.3	10.3			G1/1800
FVH (80°-90°)	6.7	0.1			G0/10
BL (0°-30°)	796.0	7.0	B2/1000		
BM (30°-60°)	912.8	8.1	B1/1000		
BH (60°-80°)	160.7	1.4	B1/500		G1/500
BVH (80°-90°)	6.3	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°	4072.0	4072.0	4072.0	4072.0	4072.0	4072.0	4072.0	4072.0	4072.0	4072.0	4072.0
2.5°	4050.8	4014.9	4050.8	4055.0	4080.4	4103.7	4088.9	4122.7	4103.7	4082.5	4076.2
5°	3723.4	3772.1	3774.2	3850.2	3833.3	3972.7	4033.9	4017.0	4120.5	4114.2	4099.4
7.5°	3429.9	3410.9	3436.2	3525.0	3636.9	3797.4	3886.1	3884.0	4031.8	4137.4	4126.9
10°	3157.5	3155.3	3208.2	3277.8	3372.8	3541.9	3664.3	3725.5	3955.8	4116.3	4139.6
12.5°	2973.7	2965.3	3022.3	3079.3	3229.3	3360.2	3516.5	3546.1	3810.1	4042.4	4080.4
15°	2853.3	2872.4	2876.6	2986.4	3081.4	3254.6	3377.1	3438.3	3742.4	3983.2	4129.0
17.5°	2832.2	2857.5	2859.7	2950.5	3051.8	3197.6	3305.3	3387.6	3685.4	4012.8	4131.1
20°	2874.5	2859.7	2872.4	2929.4	3028.6	3168.0	3324.3	3351.7	3666.4	4027.6	4154.3
22.5°	2994.8	2990.6	2958.9	3005.4	3075.1	3220.8	3368.6	3410.9	3721.3	4103.7	4173.3
25°	3127.8	3151.1	3121.5	3115.2	3163.8	3307.4	3503.8	3558.7	3905.1	4240.9	4232.4
27.5°	3377.1	3353.8	3353.8	3324.3	3311.6	3381.3	3649.5	3740.3	4110.0	4418.3	4300.0
30°	3615.7	3641.1	3622.1	3632.6	3548.2	3541.9	3856.5	3968.4	4473.2	4688.7	4443.7
32.5°	3993.8	3960.0	3991.7	3964.2	3852.3	3738.2	4137.4	4253.6	4912.5	4999.1	4659.1
35°	4308.5	4293.7	4428.9	4424.7	4243.0	4131.1	4435.2	4608.4	5218.7	5370.8	4912.5
37.5°	4756.3	4728.8	4882.9	4956.9	4794.3	4627.4	4861.8	5062.5	5503.9	5668.6	5172.3
40°	5216.6	5286.4	5493.3	5615.8	5442.6	5220.8	5383.5	5444.7	5694.0	5862.9	5349.7
42.5°	5799.5	5901.0	6112.1	6217.8	6203.0	5962.2	5913.6	5911.5	5831.2	5808.0	5480.6
45°	6359.2	6321.2	6646.5	6876.7	7062.5	6992.8	6424.7	6361.3	6048.8	5890.4	5514.4
47.5°	6604.2	6591.6	6813.4	7223.1	7856.6	7943.2	7168.2	6923.1	6416.2	6236.8	5698.2
50°	6287.4	6352.9	6572.6	7026.6	7998.2	8659.2	8080.5	7751.1	6845.0	6659.1	6133.2
52.5°	5252.5	5296.9	5506.0	6082.5	7516.6	9081.6	8954.9	8764.8	7632.7	7324.4	6891.5
54°	4319.0	4437.3	4551.4	5130.1	6659.1	8847.2	9434.3	9288.6	8146.0	7877.8	7368.8
55°	3761.5	3831.2	3913.5	4490.1	6065.7	8450.1	9379.4	9392.1	8490.2	8051.0	7689.8
57.5°	2747.7	2796.3	2711.8	2967.4	4164.9	6861.9	8579.0	8921.1	8954.9	8310.8	7886.2
60°	2099.3	2120.4	2025.4	2065.6	2589.4	4709.8	6635.9	7047.7	8078.4	7263.2	6680.2
62.5°	1628.3	1632.5	1630.4	1700.2	1784.6	2770.9	4150.1	4515.5	5569.4	5157.5	4536.6
65°	1199.6	1180.6	1214.4	1425.6	1522.7	1742.4	2185.9	2452.0	3026.5	2555.5	1826.9
67.5°	777.3	783.6	817.4	1060.2	1305.2	1336.9	1345.3	1324.2	1326.3	730.7	458.3
70°	466.8	477.4	466.8	599.8	933.5	958.8	876.5	855.4	667.4	173.2	171.1
72.5°	276.7	261.9	234.5	257.7	388.6	464.7	418.1	416.0	261.9	101.3	101.3
75°	116.1	105.6	86.6	78.1	103.5	99.2	99.2	88.7	69.7	67.6	63.3
77.5°	23.2	23.2	16.9	19.0	25.3	29.6	35.9	35.9	42.2	42.2	40.1
80°	0.0	2.1	6.3	12.7	19.0	27.4	31.7	31.7	35.9	35.9	29.6
82.5°	0.0	2.1	6.3	12.7	16.9	25.3	31.7	31.7	35.9	38.0	31.7
85°	0.0	2.1	6.3	10.6	16.9	21.1	21.1	19.0	14.8	12.7	8.4
87.5°	0.0	0.0	2.1	4.2	2.1	4.2	4.2	4.2	4.2	4.2	4.2
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°	4072.0	4072.0	4072.0	4072.0	4072.0	4072.0	4072.0	4072.0	4072.0	4072.0	4072.0
2.5°	4091.0	4088.9	4038.1	3955.8	3936.8	3867.1	3858.6	3816.4	3839.6	3761.5	3753.0
5°	4057.2	4031.8	3970.5	3917.8	3763.6	3653.8	3567.2	3461.6	3400.3	3410.9	3370.7
7.5°	4105.8	4040.2	3932.5	3748.8	3560.9	3368.6	3265.2	3049.7	2971.6	2855.4	2838.5
10°	4055.0	4006.4	3839.6	3535.5	3275.7	2999.0	2756.1	2517.5	2335.9	2257.7	2240.8
12.5°	4050.8	3966.3	3687.5	3349.6	2973.7	2576.7	2223.9	1926.1	1746.6	1645.2	1622.0
15°	3985.3	3884.0	3516.5	3062.4	2542.8	2048.7	1664.3	1377.1	1239.7	1180.6	1197.5
17.5°	3991.7	3839.6	3345.4	2758.3	2118.3	1503.7	1136.3	988.4	952.5	967.3	967.3
20°	3985.3	3740.3	3138.4	2407.7	1622.0	1043.3	834.3	781.5	804.7	851.2	840.6
22.5°	3951.5	3693.9	2948.4	2038.1	1193.3	773.0	669.5	671.6	707.5	764.6	777.3
25°	3976.9	3590.4	2707.6	1664.3	870.2	616.7	580.8	595.6	633.6	675.8	684.3
27.5°	3957.9	3516.5	2456.2	1292.5	635.7	530.1	528.0	544.9	561.8	593.5	593.5
30°	3979.0	3448.9	2209.1	960.9	523.8	485.8	477.4	490.0	506.9	513.2	511.1
32.5°	4057.2	3398.2	1924.0	718.0	462.6	443.5	443.5	443.5	441.4	449.9	452.0
35°	4228.2	3406.6	1672.7	555.5	422.4	407.6	401.2	392.8	388.6	392.8	394.9
37.5°	4414.1	3402.4	1413.0	473.1	392.8	380.1	365.4	352.7	350.6	354.8	348.5
40°	4496.5	3442.5	1172.2	424.5	365.4	350.6	327.4	316.8	318.9	323.1	318.9
42.5°	4608.4	3455.2	1015.8	386.5	340.0	316.8	302.0	289.3	287.2	293.6	291.5
45°	4606.2	3383.4	851.2	365.4	316.8	291.5	272.5	261.9	261.9	266.1	268.2
47.5°	4741.5	3372.8	730.7	346.4	299.9	274.6	251.3	242.9	240.8	240.8	236.6
50°	5056.2	3520.7	637.8	325.2	278.8	255.6	236.6	226.0	217.6	213.3	211.2
52.5°	5670.7	3981.1	566.0	299.9	255.6	236.6	219.7	211.2	200.7	190.1	188.0
54°	6266.3	4456.3	561.8	278.8	236.6	223.9	209.1	204.9	192.2	177.4	173.2
55°	6534.6	4733.0	576.6	261.9	223.9	215.5	202.8	198.6	185.9	169.0	166.9
57.5°	6756.3	4840.7	568.1	217.6	202.8	200.7	190.1	183.8	169.0	145.7	141.5
60°	5438.4	3660.1	407.6	192.2	185.9	181.7	173.2	169.0	150.0	124.6	122.5
62.5°	3436.2	2105.7	259.8	169.0	162.6	156.3	145.7	141.5	124.6	99.2	92.9
65°	1463.6	872.3	175.3	150.0	139.4	128.8	120.3	114.0	99.2	73.9	71.8
67.5°	380.1	310.5	145.7	130.9	116.1	101.3	95.0	84.5	67.6	50.7	48.6
70°	171.1	156.3	122.5	109.8	92.9	78.1	69.7	59.1	44.3	33.8	31.7
72.5°	101.3	99.2	92.9	82.3	69.7	59.1	50.7	40.1	29.6	19.0	19.0
75°	63.3	61.2	63.3	57.0	48.6	44.3	38.0	27.4	16.9	8.4	8.4
77.5°	38.0	38.0	38.0	35.9	33.8	33.8	27.4	16.9	8.4	2.1	2.1
80°	29.6	29.6	31.7	29.6	29.6	29.6	23.2	12.7	4.2	0.0	0.0
82.5°	29.6	31.7	35.9	33.8	29.6	25.3	21.1	12.7	4.2	0.0	0.0
85°	8.4	6.3	10.6	14.8	21.1	19.0	14.8	10.6	4.2	0.0	0.0
87.5°	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	2.1	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)