

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: P455085

Luminaire Tested: **GALN-SA6B-727-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455085  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6B-727-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22094 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

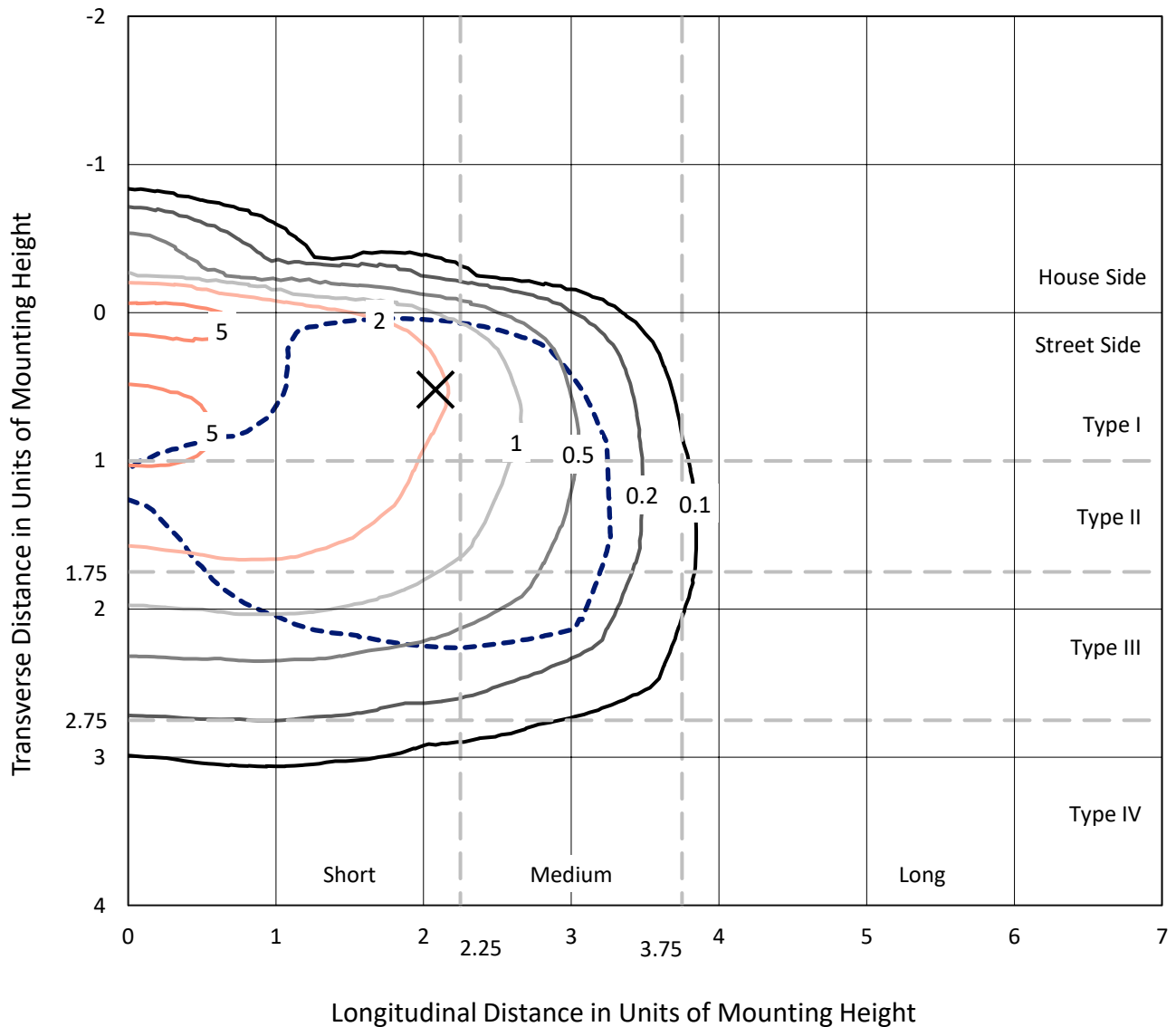
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

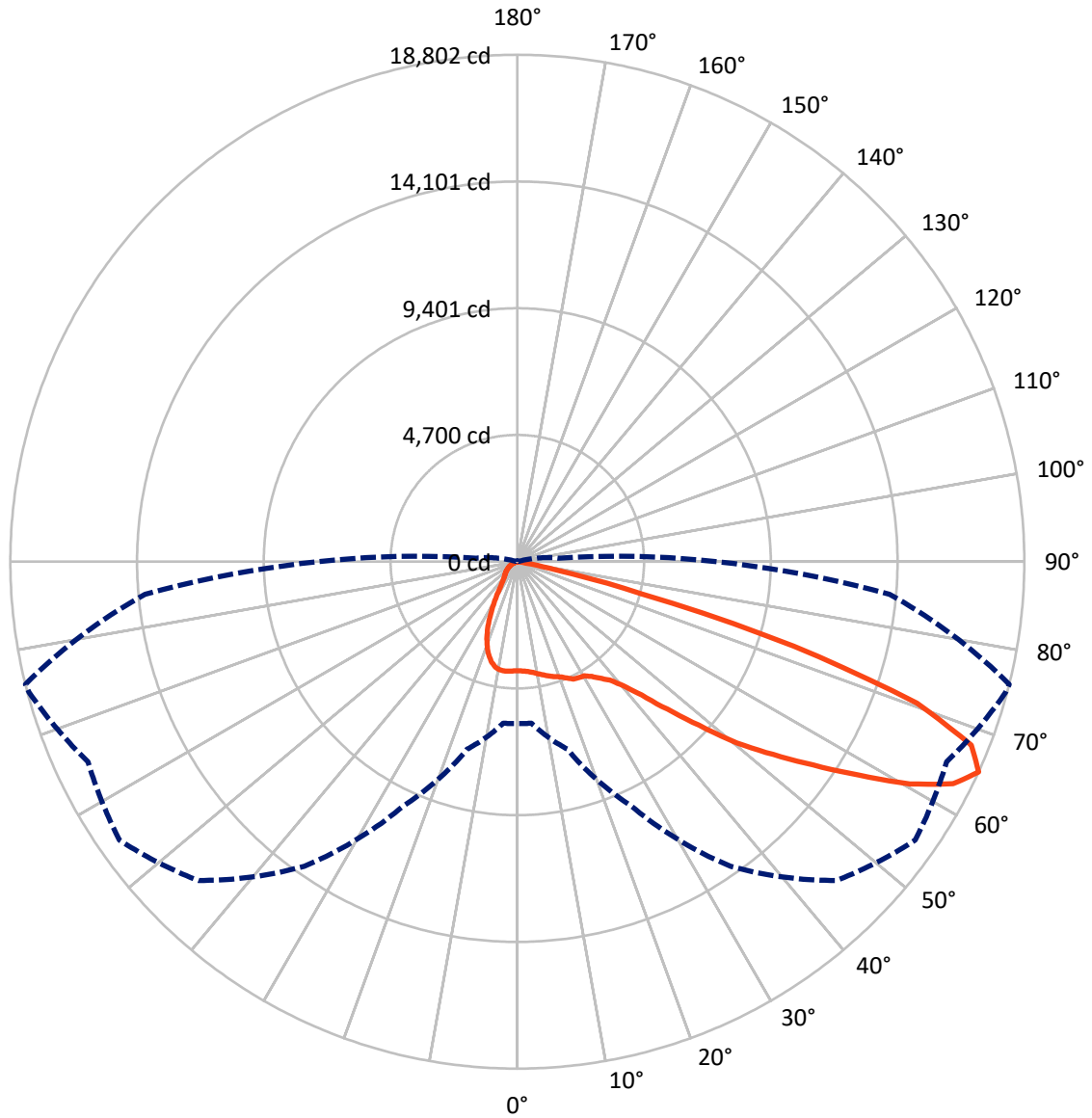
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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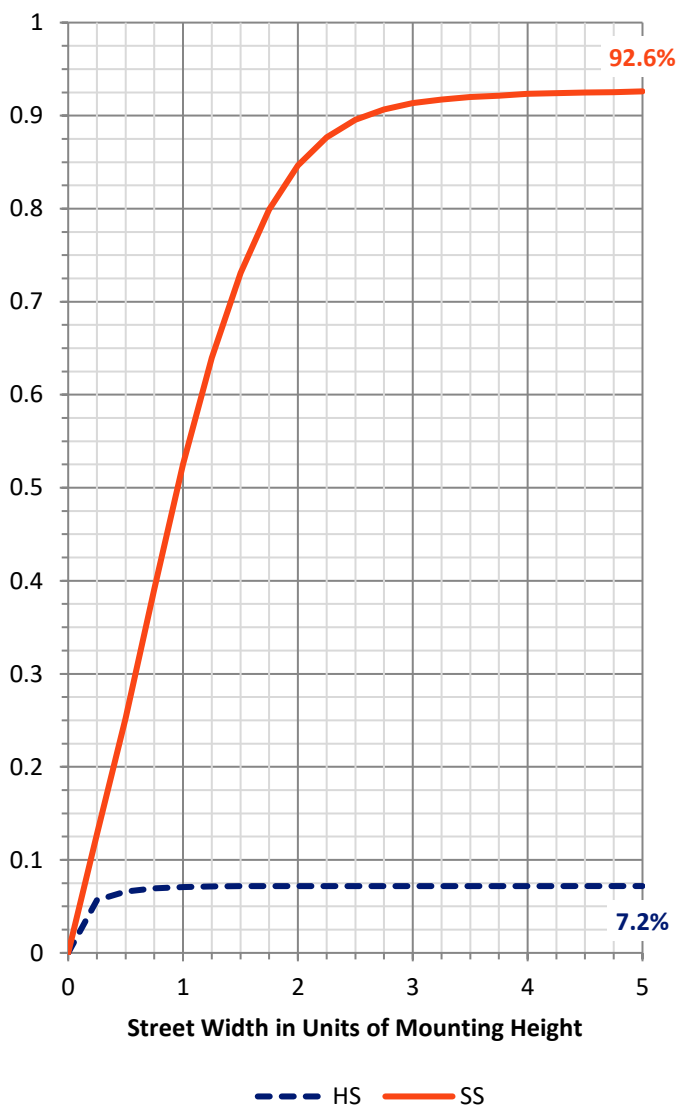
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1595.6	0.0	1595.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	20498.4	0.0	20498.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	22094.0	0.0	22094.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.9	1.5
10°-20°	741.3	3.4
20°-30°	1194.6	5.4
30°-40°	2077.1	9.4
40°-50°	3432.2	15.5
50°-60°	5302.1	24.0
60°-70°	6474.6	29.3
70°-80°	2457.3	11.1
80°-90°	82.0	0.4
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°	22094.0	100.0
0°-180°	22094.0	100.0

**Coefficient of Utilization**



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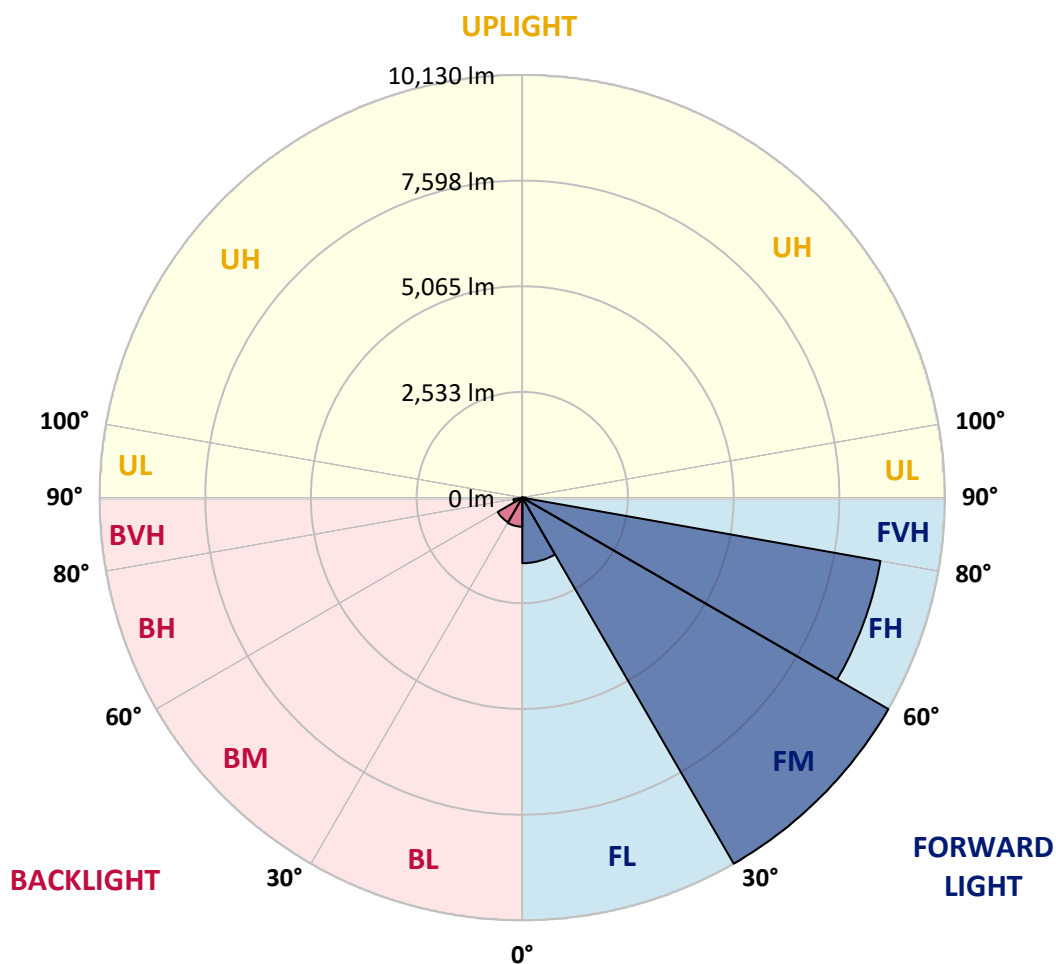
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1571.7	7.1			
FM (30°-60°)	10130.4	45.9			
FH (60°-80°)	8715.3	39.4			G4/12000
FVH (80°-90°)	80.9	0.4			G1/100
BL (0°-30°)	697.1	3.2	B2/1000		
BM (30°-60°)	680.9	3.1	B1/1000		
BH (60°-80°)	216.5	1.0	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4041.7	4041.7	4041.7	4041.7	4041.7	4041.7	4041.7	4041.7	4041.7	4041.7	4041.7
2.5°	3862.3	3863.9	3873.2	3896.6	3932.5	3962.1	3987.1	4027.7	4055.7	4058.9	4068.2
5°	3595.6	3576.8	3595.6	3656.4	3711.0	3793.7	3895.1	3996.5	4086.9	4093.2	4136.9
7.5°	3296.1	3311.7	3341.3	3403.7	3506.7	3633.0	3779.6	3960.6	4132.2	4147.8	4233.6
10°	2991.9	3026.2	3074.6	3169.7	3313.2	3477.0	3676.7	3935.6	4203.9	4225.8	4374.0
12.5°	2711.1	2726.7	2786.0	2913.9	3091.7	3322.6	3598.7	3921.6	4283.5	4310.0	4523.7
15°	2495.8	2516.1	2567.6	2683.0	2881.1	3177.5	3534.7	3916.9	4361.5	4398.9	4673.5
17.5°	2455.3	2467.8	2489.6	2567.6	2740.7	3062.1	3477.0	3915.3	4436.4	4481.6	4812.3
20°	2622.2	2611.3	2589.4	2581.6	2676.8	2973.2	3434.9	3927.8	4508.1	4559.6	4958.9
22.5°	3040.2	3054.3	2926.4	2775.1	2743.9	2959.1	3428.7	3987.1	4622.0	4682.8	5122.7
25°	3927.8	3820.2	3620.5	3258.6	2985.6	3044.9	3498.9	4127.5	4754.6	4821.6	5270.9
27.5°	4909.0	4876.2	4565.8	3969.9	3461.4	3225.9	3623.6	4235.1	4798.2	4866.9	5355.1
30°	5873.0	5912.0	5556.4	4898.1	4152.5	3561.2	3740.6	4275.7	4837.2	4909.0	5462.8
32.5°	6766.8	6813.6	6501.7	5849.6	4966.7	4141.5	3941.9	4433.2	5001.0	5074.4	5642.2
35°	7470.4	7476.6	7241.1	6721.6	5855.9	4846.6	4377.1	4709.3	5222.5	5308.3	5832.5
37.5°	8116.2	8106.8	7830.7	7383.0	6596.8	5547.0	4924.6	5027.6	5475.2	5564.2	6107.0
40°	8595.0	8601.3	8512.4	8091.2	7287.8	6194.4	5358.3	5325.5	5899.5	6038.4	6506.3
42.5°	8914.8	8972.5	9016.2	8802.5	8156.7	6991.5	6024.3	5963.5	6635.8	6751.2	7071.0
45°	9173.8	9276.7	9495.1	9484.2	8991.3	7969.5	6938.4	6813.6	7679.4	7802.6	7790.1
47.5°	9362.5	9467.0	9828.9	10047.3	9775.9	8917.9	8088.1	7980.4	8925.7	9059.9	8584.1
50°	9459.2	9584.0	10045.7	10468.5	10388.9	9832.0	9398.4	9404.6	10431.0	10560.5	9504.5
52.5°	9233.0	9395.3	10161.2	10922.4	11076.8	10707.1	10626.0	10831.9	11771.0	11881.7	10335.9
55°	8510.8	8715.2	10003.6	11309.3	11873.9	11739.8	12020.6	12334.1	13235.7	13307.5	11189.2
57.5°	8053.8	8270.6	9538.8	11638.4	12831.7	13037.6	13482.2	13711.5	14747.3	14929.8	12168.8
60°	7668.5	7838.5	9156.6	11708.6	13805.1	14625.6	15057.7	15294.8	16612.9	16731.5	13246.7
62.5°	7027.3	7222.3	8510.8	11218.8	14294.9	15896.9	16792.3	16686.2	18055.8	18138.5	13908.1
65°	5996.3	6013.4	7200.5	9988.0	13789.5	16722.1	18010.6	17566.0	18745.3	18801.5	13856.6
67.5°	4475.3	4640.7	5539.2	7851.0	11647.8	16017.0	18405.2	17589.4	18310.1	18154.1	12756.9
70°	2882.7	3009.0	3754.7	5444.0	8398.5	13366.8	17096.5	16383.6	16070.1	15723.8	10442.0
72.5°	1330.6	1492.8	2230.7	3110.4	4980.8	9521.6	13878.4	13310.6	11566.6	10711.8	6637.4
75°	580.3	620.8	1101.3	1641.0	2335.2	5035.4	9150.4	8262.8	5224.1	4771.7	2656.5
77.5°	354.1	380.6	577.2	879.8	917.2	1918.7	4929.3	3604.9	1614.5	1424.2	720.7
80°	240.2	269.9	419.6	460.2	313.5	535.0	1850.0	962.5	326.0	312.0	154.4
82.5°	117.0	148.2	310.4	257.4	135.7	171.6	538.2	205.9	95.2	88.9	54.6
85°	17.2	29.6	174.7	168.5	60.8	40.6	95.2	51.5	32.8	31.2	25.0
87.5°	0.0	0.0	59.3	26.5	6.2	6.2	10.9	10.9	12.5	10.9	12.5
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°	4041.7	4041.7	4041.7	4041.7	4041.7	4041.7	4041.7	4041.7	4041.7	4041.7	4041.7
2.5°	4072.9	4080.7	4051.1	4008.9	3963.7	3918.5	3854.5	3796.8	3762.5	3782.8	3732.8
5°	4146.2	4140.0	4062.0	3934.1	3764.0	3559.7	3356.9	3183.8	3127.6	3043.4	3034.0
7.5°	4247.6	4230.4	4065.1	3771.8	3388.1	3004.4	2630.0	2382.0	2240.0	2119.9	2123.0
10°	4389.6	4339.6	4029.2	3486.4	2854.6	2275.9	1798.6	1471.0	1329.0	1283.8	1247.9
12.5°	4536.2	4439.5	3929.4	3101.1	2222.9	1555.2	1093.5	893.8	806.5	778.4	775.3
15°	4667.2	4514.3	3754.7	2637.8	1616.1	993.7	745.6	680.1	669.2	670.8	669.2
17.5°	4796.7	4573.6	3512.9	2146.4	1098.2	712.9	641.1	625.5	630.2	636.4	634.9
20°	4904.3	4586.1	3204.0	1637.9	776.8	625.5	602.1	599.0	603.7	608.4	608.4
22.5°	5021.3	4595.5	2837.5	1134.0	634.9	581.8	569.4	569.4	575.6	581.8	583.4
25°	5108.7	4544.0	2399.1	814.3	560.0	539.7	533.5	535.0	541.3	544.4	542.8
27.5°	5122.7	4398.9	1934.3	624.0	508.5	488.2	482.0	488.2	480.4	485.1	482.0
30°	5135.2	4214.8	1463.2	525.7	461.7	430.5	421.2	411.8	405.6	397.8	396.2
32.5°	5174.2	3998.0	1068.5	472.6	418.1	383.7	361.9	335.4	315.1	308.9	307.3
35°	5191.3	3737.5	784.6	430.5	379.1	341.6	302.6	265.2	235.5	224.6	232.4
37.5°	5256.9	3484.8	608.4	399.3	344.7	297.9	248.0	201.2	173.1	166.9	170.0
40°	5391.0	3210.3	510.1	372.8	315.1	257.4	196.5	151.3	132.6	126.4	124.8
42.5°	5606.3	2937.3	453.9	347.9	285.5	216.8	154.4	118.6	103.0	98.3	98.3
45°	5868.3	2675.2	414.9	321.3	254.3	174.7	121.7	95.2	85.8	82.7	82.7
47.5°	6213.1	2445.9	382.2	294.8	219.9	138.8	98.3	82.7	76.4	78.0	79.6
50°	6562.5	2275.9	346.3	265.2	180.9	113.9	84.2	73.3	71.8	73.3	73.3
52.5°	6826.1	2176.1	297.9	224.6	142.0	95.2	74.9	68.6	67.1	64.0	64.0
55°	7181.8	2154.2	237.1	182.5	112.3	79.6	67.1	62.4	57.7	54.6	53.0
57.5°	7638.8	2179.2	182.5	142.0	87.4	65.5	59.3	51.5	45.2	39.0	39.0
60°	7922.7	2123.0	142.0	109.2	64.0	53.0	45.2	37.4	29.6	25.0	23.4
62.5°	7832.3	1885.9	112.3	81.1	45.2	39.0	29.6	25.0	17.2	12.5	10.9
65°	7365.8	1522.5	90.5	56.2	32.8	23.4	15.6	15.6	7.8	1.6	0.0
67.5°	6447.1	1127.8	71.8	37.4	18.7	10.9	7.8	4.7	0.0	0.0	0.0
70°	5247.5	814.3	56.2	23.4	10.9	7.8	3.1	1.6	0.0	0.0	0.0
72.5°	3331.9	466.4	43.7	14.0	7.8	3.1	0.0	0.0	0.0	0.0	0.0
75°	1288.5	182.5	29.6	9.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	365.0	85.8	17.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	95.2	37.4	9.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.2	15.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.5	6.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	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)