

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: P651944

Luminaire Tested: **GALN-SA6A-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651944  
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-SA6A-840-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 615mA 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: 13312.2 lumens  
Efficiency: N/A  
Efficacy: 73.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

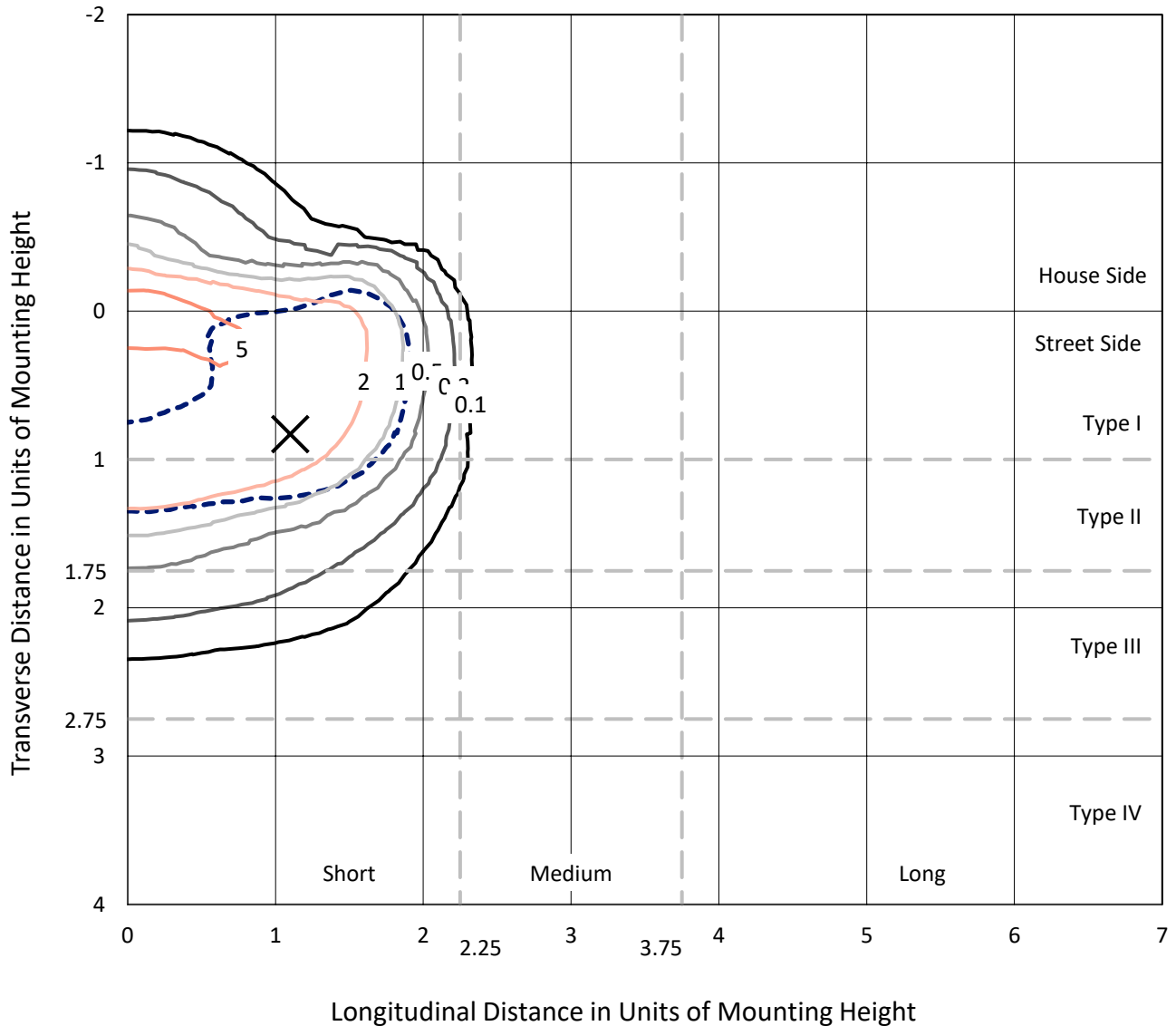
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

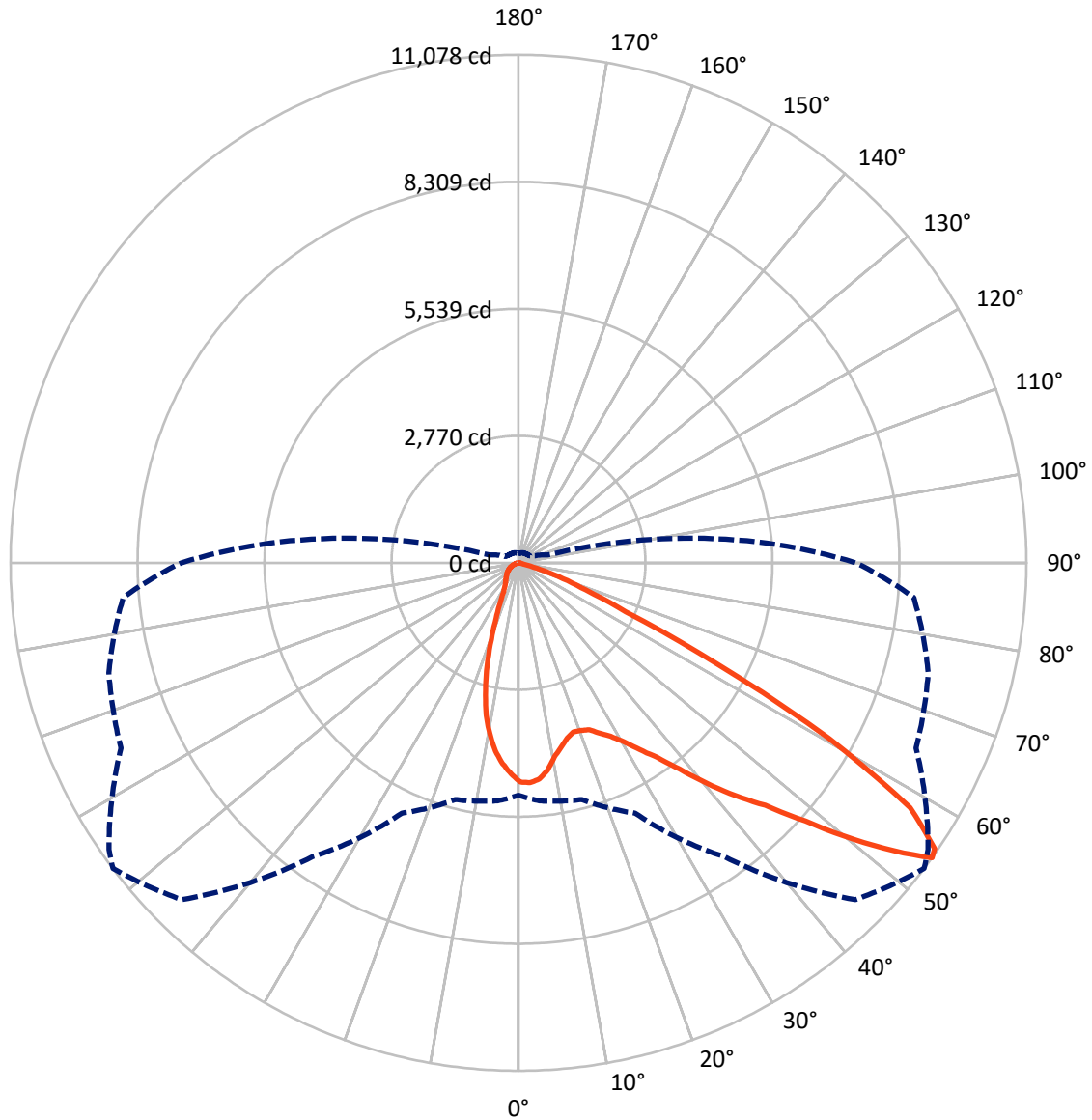
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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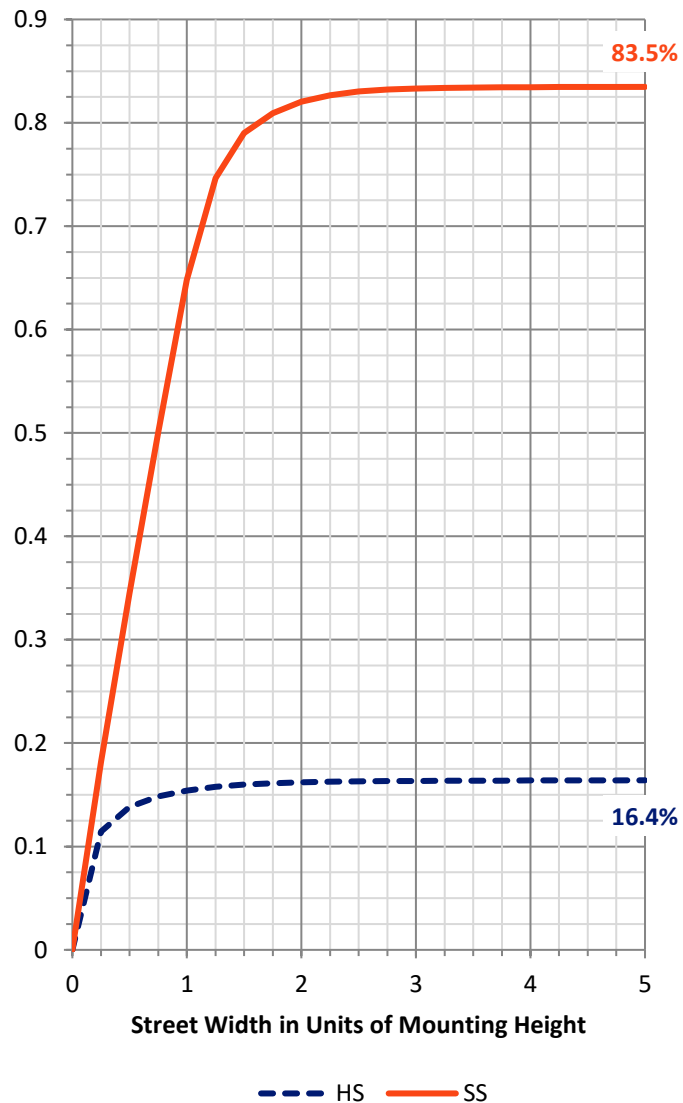
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2202.5	0.0	2202.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	11109.6	0.0	11109.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	13312.2	0.0	13312.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	410.2	3.1
10°-20°	940.6	7.1
20°-30°	1336.7	10.0
30°-40°	2062.9	15.5
40°-50°	3234.5	24.3
50°-60°	3757.3	28.2
60°-70°	1419.7	10.7
70°-80°	135.0	1.0
80°-90°	15.2	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°	13312.2	100.0
0°-180°	13312.2	100.0

**Coefficient of Utilization**

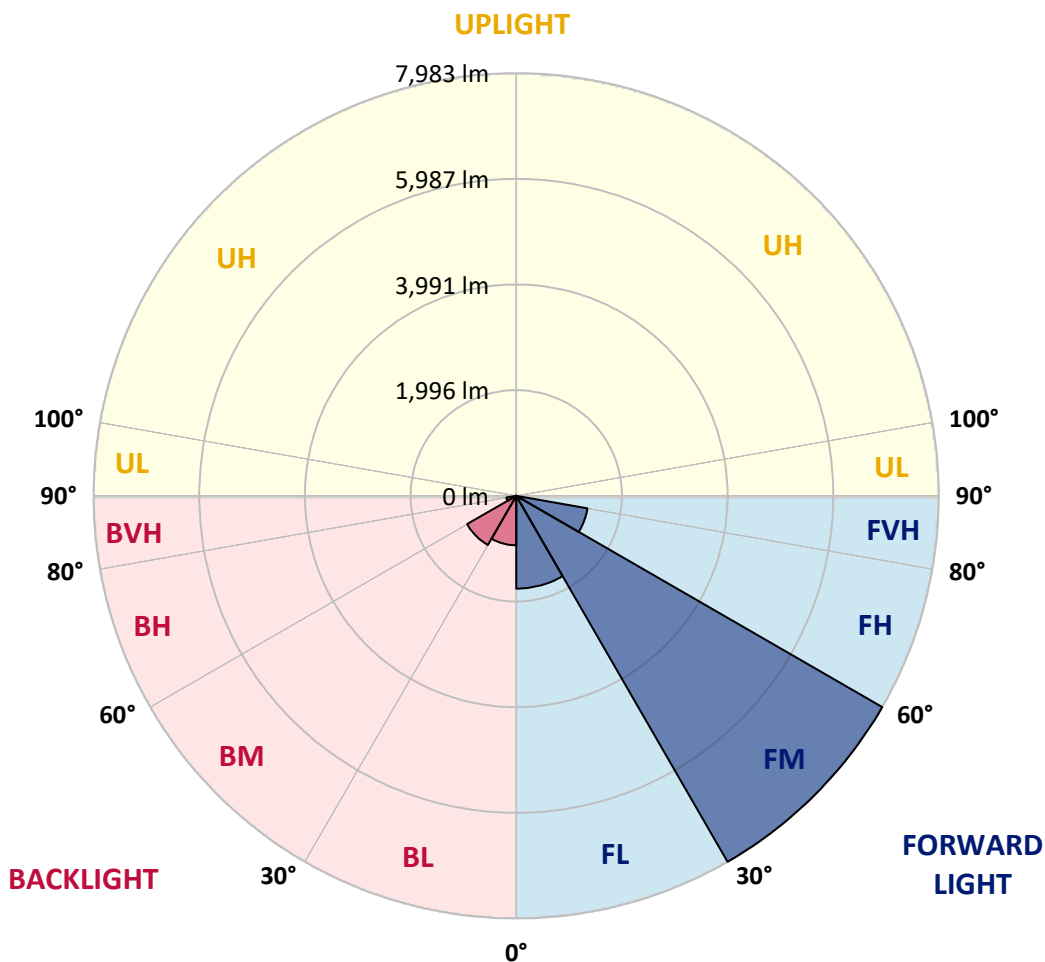


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1752.9	13.2			
FM (30°-60°)	7982.9	60.0			
FH (60°-80°)	1366.0	10.3			G1/1800
FVH (80°-90°)	7.8	0.1			G0/10
BL (0°-30°)	934.7	7.0	B2/1000		
BM (30°-60°)	1071.8	8.1	B2/2500		
BH (60°-80°)	188.7	1.4	B1/500		G1/500
BVH (80°-90°)	7.3	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°	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5
2.5°	4756.7	4714.6	4756.7	4761.7	4791.4	4818.7	4801.4	4841.0	4818.7	4794.0	4786.5
5°	4372.3	4429.4	4431.8	4521.1	4501.3	4664.9	4736.8	4717.0	4838.5	4831.1	4813.7
7.5°	4027.5	4005.3	4035.0	4139.1	4270.6	4459.2	4563.3	4560.8	4734.4	4858.4	4846.0
10°	3707.6	3705.2	3767.2	3849.0	3960.6	4159.0	4302.9	4374.8	4645.1	4833.6	4860.9
12.5°	3491.9	3482.0	3548.9	3615.9	3792.0	3945.7	4129.2	4164.0	4474.0	4746.8	4791.4
15°	3350.5	3372.8	3377.8	3506.8	3618.4	3821.8	3965.6	4037.5	4394.6	4677.4	4848.4
17.5°	3325.7	3355.5	3357.9	3464.6	3583.7	3754.8	3881.3	3978.0	4327.7	4712.0	4851.0
20°	3375.4	3357.9	3372.8	3439.8	3556.3	3720.1	3903.6	3935.8	4305.3	4729.4	4878.2
22.5°	3516.7	3511.8	3474.5	3529.1	3610.9	3782.1	3955.6	4005.3	4369.8	4818.7	4900.6
25°	3672.9	3700.2	3665.5	3658.1	3715.1	3883.7	4114.4	4178.8	4585.6	4979.9	4970.0
27.5°	3965.6	3938.3	3938.3	3903.6	3888.7	3970.5	4285.5	4392.1	4826.2	5188.2	5049.4
30°	4245.8	4275.6	4253.3	4265.6	4166.5	4159.0	4528.5	4660.0	5252.7	5505.7	5218.0
32.5°	4689.8	4650.1	4687.3	4655.0	4523.6	4389.7	4858.4	4994.8	5768.6	5870.3	5471.0
35°	5059.3	5041.9	5200.7	5195.7	4982.4	4851.0	5208.1	5411.4	6128.2	6306.7	5768.6
37.5°	5585.1	5552.8	5733.9	5820.6	5629.7	5433.8	5709.0	5944.7	6463.0	6656.4	6073.6
40°	6125.7	6207.5	6450.6	6594.4	6391.1	6130.6	6321.6	6393.5	6686.2	6884.6	6281.9
42.5°	6810.2	6929.3	7177.3	7301.2	7283.9	7001.2	6944.1	6941.6	6847.4	6820.1	6435.7
45°	7467.4	7422.8	7804.6	8075.0	8293.3	8211.4	7544.3	7469.8	7102.8	6916.8	6475.4
47.5°	7755.1	7740.2	8000.6	8481.7	9225.8	9327.4	8417.2	8129.5	7534.4	7323.5	6691.2
50°	7383.1	7459.9	7717.9	8251.1	9391.9	10168.2	9488.7	9101.7	8037.8	7819.5	7202.1
52.5°	6167.9	6220.0	6465.4	7142.5	8826.5	10664.1	10515.4	10292.2	8962.9	8600.7	8092.4
54°	5071.7	5210.6	5344.5	6024.0	7819.5	10388.9	11078.3	10907.2	9565.5	9250.6	8652.9
55°	4416.9	4498.8	4595.5	5272.6	7122.7	9922.6	11013.8	11028.7	9969.7	9453.9	9029.8
57.5°	3226.5	3283.6	3184.4	3484.4	4890.7	8057.6	10073.9	10475.7	10515.4	9759.0	9260.5
60°	2465.1	2489.9	2378.3	2425.4	3040.6	5530.5	7792.3	8275.9	9486.1	8528.8	7844.3
62.5°	1912.1	1917.1	1914.6	1996.4	2095.6	3253.8	4873.3	5302.3	6539.9	6056.3	5327.1
65°	1408.7	1386.3	1426.0	1674.0	1788.1	2046.1	2566.8	2879.3	3553.9	3000.9	2145.2
67.5°	912.7	920.1	959.7	1245.0	1532.6	1569.9	1579.8	1555.0	1557.4	858.1	538.2
70°	548.1	560.5	548.1	704.3	1096.2	1125.9	1029.2	1004.4	783.7	203.4	200.9
72.5°	324.9	307.6	275.3	302.6	456.3	545.6	491.1	488.5	307.6	119.0	119.0
75°	136.4	124.0	101.7	91.8	121.5	116.6	116.6	104.2	81.8	79.4	74.4
77.5°	27.2	27.2	19.8	22.3	29.8	34.7	42.1	42.1	49.6	49.6	47.1
80°	0.0	2.4	7.4	14.9	22.3	32.2	37.2	37.2	42.1	42.1	34.7
82.5°	0.0	2.4	7.4	14.9	19.8	29.8	37.2	37.2	42.1	44.7	37.2
85°	0.0	2.4	7.4	12.4	19.8	24.8	24.8	22.3	17.3	14.9	9.9
87.5°	0.0	0.0	2.4	5.0	2.4	5.0	5.0	5.0	5.0	5.0	5.0
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°	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5	4781.5
2.5°	4803.9	4801.4	4741.8	4645.1	4622.8	4541.0	4531.1	4481.4	4508.7	4416.9	4407.0
5°	4764.2	4734.4	4662.5	4600.4	4419.5	4290.4	4188.8	4064.8	3992.9	4005.3	3958.2
7.5°	4821.2	4744.3	4617.8	4402.0	4181.4	3955.6	3834.1	3581.1	3489.4	3353.0	3333.1
10°	4761.7	4704.6	4508.7	4151.6	3846.6	3521.7	3236.4	2956.2	2742.9	2651.2	2631.3
12.5°	4756.7	4657.5	4330.1	3933.4	3491.9	3025.7	2611.5	2261.8	2051.0	1931.9	1904.7
15°	4679.8	4560.8	4129.2	3596.0	2986.0	2405.6	1954.2	1617.0	1455.8	1386.3	1406.2
17.5°	4687.3	4508.7	3928.4	3238.9	2487.5	1765.8	1334.2	1160.7	1118.5	1135.9	1135.9
20°	4679.8	4392.1	3685.3	2827.3	1904.7	1225.2	979.6	917.6	944.9	999.4	987.1
22.5°	4640.1	4337.6	3462.1	2393.2	1401.2	907.7	786.2	788.7	830.8	897.8	912.7
25°	4669.9	4216.1	3179.4	1954.2	1021.8	724.2	682.1	699.4	744.0	793.7	803.5
27.5°	4647.6	4129.2	2884.3	1517.8	746.5	622.5	620.0	639.8	659.7	696.9	696.9
30°	4672.4	4049.9	2594.1	1128.5	615.0	570.5	560.5	575.3	595.2	602.7	600.1
32.5°	4764.2	3990.4	2259.3	843.2	543.1	520.8	520.8	520.8	518.3	528.2	530.8
35°	4965.0	4000.3	1964.2	652.3	496.0	478.6	471.2	461.3	456.3	461.3	463.7
37.5°	5183.3	3995.3	1659.1	555.6	461.3	446.4	429.1	414.2	411.7	416.6	409.2
40°	5280.0	4042.4	1376.4	498.5	429.1	411.7	384.4	372.0	374.5	379.5	374.5
42.5°	5411.4	4057.3	1192.9	453.9	399.3	372.0	354.6	339.8	337.3	344.7	342.3
45°	5409.0	3973.1	999.4	429.1	372.0	342.3	319.9	307.6	307.6	312.5	315.0
47.5°	5567.7	3960.6	858.1	406.7	352.1	322.4	295.1	285.2	282.7	282.7	277.8
50°	5937.2	4134.2	749.0	381.9	327.4	300.1	277.8	265.3	255.4	250.4	248.0
52.5°	6658.9	4674.9	664.6	352.1	300.1	277.8	257.9	248.0	235.6	223.2	220.8
54°	7358.2	5232.9	659.7	327.4	277.8	262.9	245.5	240.5	225.7	208.3	203.4
55°	7673.2	5557.7	677.1	307.6	262.9	253.0	238.1	233.1	218.2	198.4	196.0
57.5°	7933.7	5684.2	667.2	255.4	238.1	235.6	223.2	215.8	198.4	171.1	166.2
60°	6386.1	4297.9	478.6	225.7	218.2	213.3	203.4	198.4	176.1	146.3	143.8
62.5°	4035.0	2472.6	305.0	198.4	191.0	183.5	171.1	166.2	146.3	116.6	109.2
65°	1718.7	1024.3	205.9	176.1	163.7	151.3	141.4	133.9	116.6	86.8	84.4
67.5°	446.4	364.6	171.1	153.7	136.4	119.0	111.6	99.2	79.4	59.5	57.0
70°	200.9	183.5	143.8	128.9	109.2	91.8	81.8	69.5	52.1	39.7	37.2
72.5°	119.0	116.6	109.2	96.7	81.8	69.5	59.5	47.1	34.7	22.3	22.3
75°	74.4	71.9	74.4	66.9	57.0	52.1	44.7	32.2	19.8	9.9	9.9
77.5°	44.7	44.7	44.7	42.1	39.7	39.7	32.2	19.8	9.9	2.4	2.4
80°	34.7	34.7	37.2	34.7	34.7	34.7	27.2	14.9	5.0	0.0	0.0
82.5°	34.7	37.2	42.1	39.7	34.7	29.8	24.8	14.9	5.0	0.0	0.0
85°	9.9	7.4	12.4	17.3	24.8	22.3	17.3	12.4	5.0	0.0	0.0
87.5°	5.0	5.0	5.0	5.0	2.4	2.4	2.4	2.4	2.4	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)