

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: P651567

Luminaire Tested: **GALN-SA8D-840-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651567  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-840-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43213.9 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

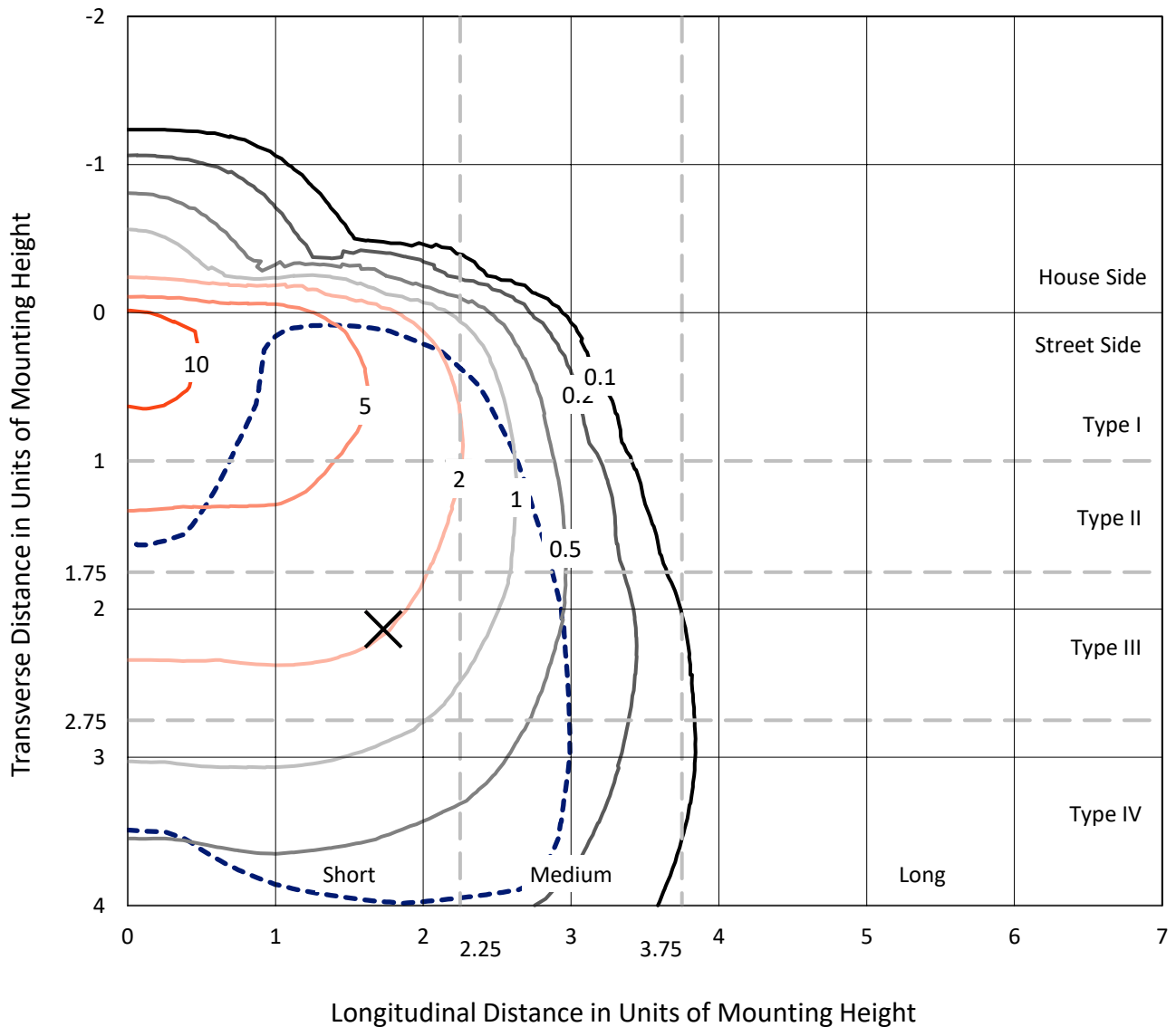
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

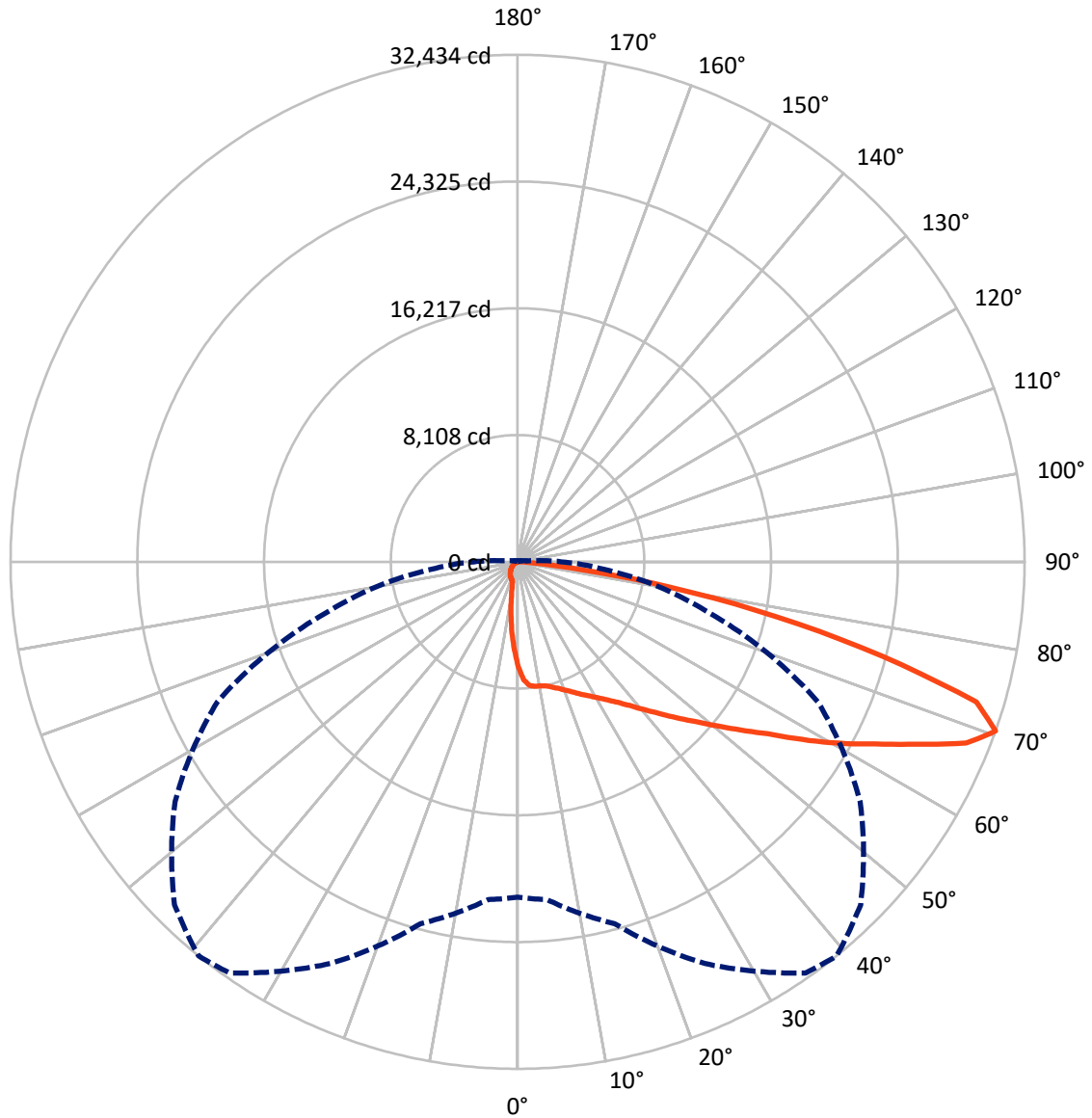
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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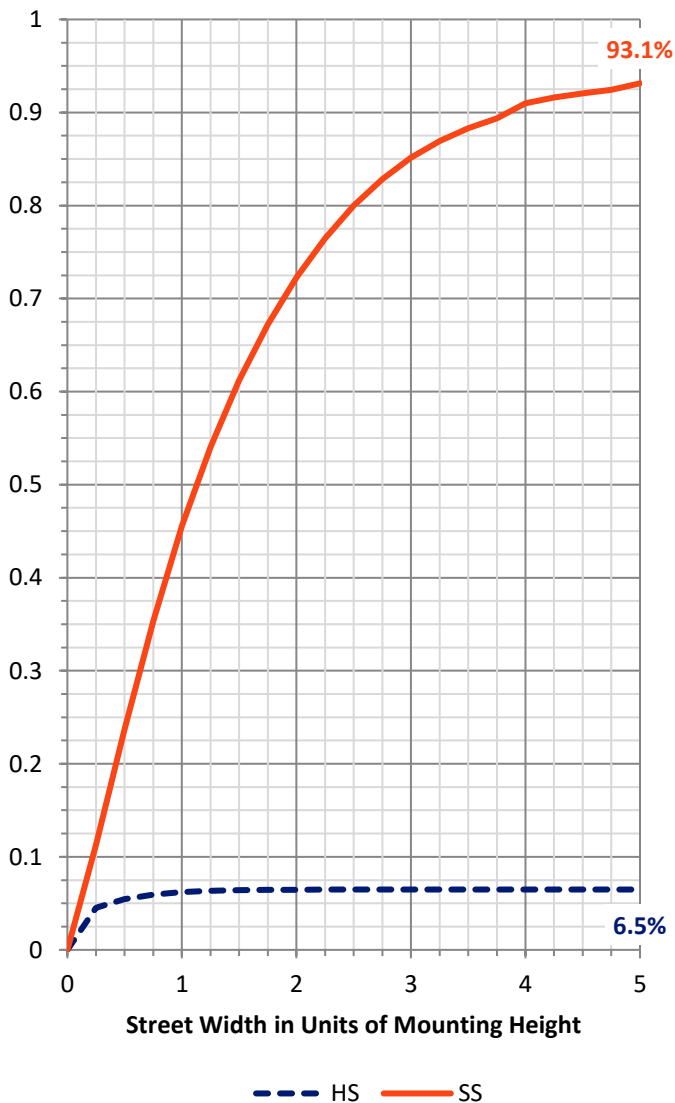
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2817.8	0.0	2817.8
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	40396.2	0.0	40396.2
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	43213.9	0.0	43213.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	575.1	1.3
10°-20°	1494.6	3.5
20°-30°	2503.8	5.8
30°-40°	3883.1	9.0
40°-50°	6153.6	14.2
50°-60°	9020.2	20.9
60°-70°	11561.7	26.8
70°-80°	7265.0	16.8
80°-90°	756.8	1.8
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°	43213.9	100.0
0°-180°	43213.9	100.0

**Coefficient of Utilization**



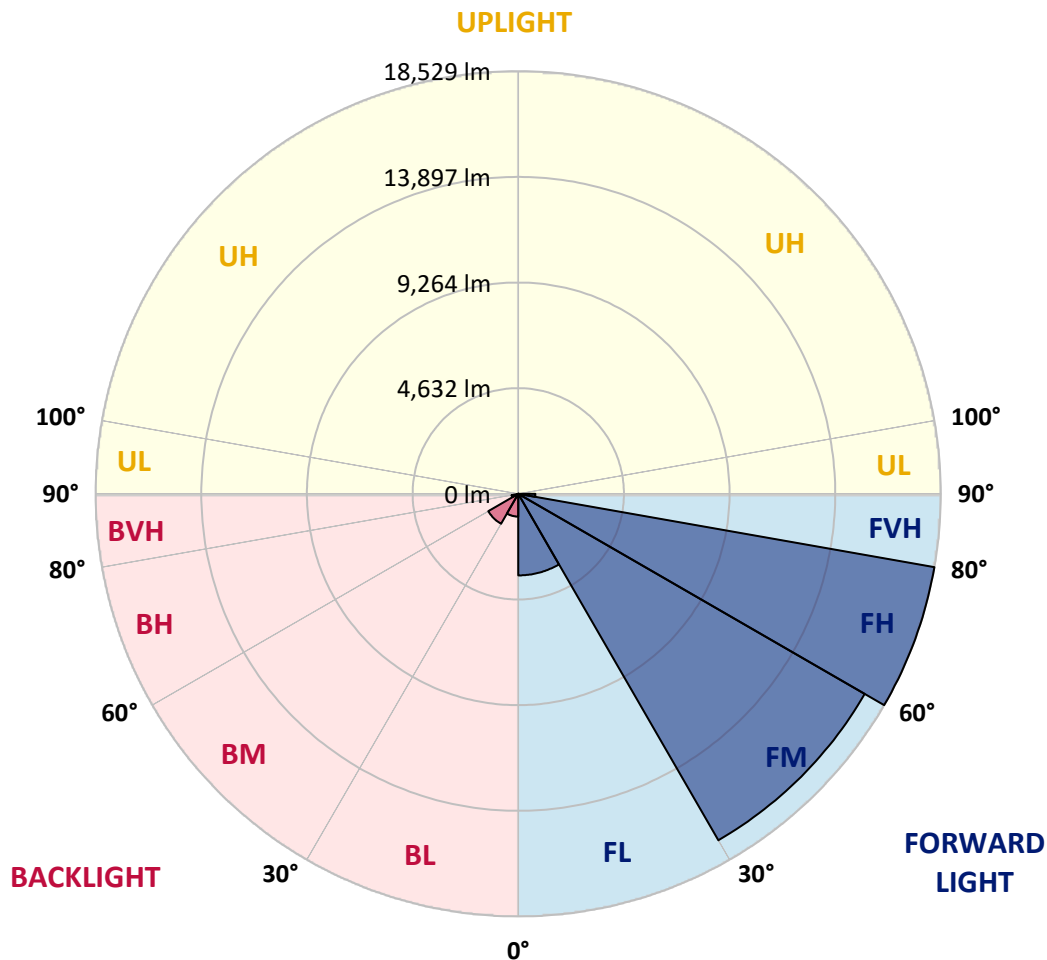
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3575.7	8.3			
FM (30°-60°)	17540.4	40.6			
FH (60°-80°)	18528.7	42.9			G5
FVH (80°-90°)	751.3	1.7			G5
BL (0°-30°)	997.7	2.3	B2/1000		
BM (30°-60°)	1516.4	3.5	B2/2500		
BH (60°-80°)	298.0	0.7	B1/500		G1/500
BVH (80°-90°)	5.6	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9
2.5°	7791.2	7765.0	7730.2	7689.5	7573.4	7553.0	7483.4	7335.3	7158.1	7012.9	6812.5
5°	8160.0	8174.5	8148.4	8075.8	7991.5	7942.2	7855.0	7625.7	7396.3	7102.9	6774.8
7.5°	8244.2	8273.3	8241.3	8171.6	8090.3	8038.0	7968.3	7770.8	7503.7	7169.7	6719.6
10°	8235.5	8270.3	8250.0	8186.1	8119.3	8069.9	7994.5	7837.6	7622.7	7271.4	6737.1
12.5°	8220.9	8267.4	8264.5	8232.5	8177.4	8139.6	8093.2	7953.8	7753.4	7419.5	6832.9
15°	8180.3	8238.4	8290.7	8316.7	8319.7	8319.7	8261.6	8113.5	7921.8	7614.0	6957.8
17.5°	8197.7	8264.5	8395.2	8470.7	8522.9	8517.1	8456.2	8296.5	8084.4	7814.4	7088.5
20°	8305.1	8395.2	8578.1	8729.2	8781.4	8764.0	8682.7	8496.8	8255.8	7985.7	7216.2
22.5°	8569.4	8650.7	8880.1	9057.2	9095.0	9048.6	8932.4	8679.8	8462.0	8171.6	7370.1
25°	8964.3	9060.2	9272.2	9405.7	9405.7	9379.6	9216.9	8920.8	8694.3	8430.0	7570.4
27.5°	9443.5	9524.8	9733.9	9852.9	9783.3	9707.7	9545.1	9187.9	8970.2	8755.2	7811.5
30°	9928.4	9980.7	10201.4	10253.6	10181.1	10085.3	9911.0	9553.8	9362.2	9196.7	8160.0
32.5°	10387.3	10500.5	10683.5	10671.9	10573.1	10526.6	10366.9	9986.5	9879.1	9861.7	8647.8
35°	10846.0	10933.2	11095.8	11136.4	11049.3	11040.6	10924.5	10642.8	10645.7	10758.9	9408.6
37.5°	11241.0	11319.4	11511.1	11601.1	11618.5	11662.1	11615.6	11429.8	11694.0	12004.7	10416.3
40°	11572.1	11682.4	11926.3	12083.2	12263.2	12422.9	12431.6	12472.3	13003.6	13538.0	11731.8
42.5°	11830.5	11984.4	12338.6	12629.0	13041.4	13244.7	13407.3	13630.9	14525.3	15323.9	13282.4
45°	12167.3	12344.5	12785.9	13241.8	13886.4	14220.4	14446.9	15045.1	16314.1	17403.1	14873.8
47.5°	12724.9	12817.8	13268.0	13932.9	14780.8	15257.1	15698.5	16604.5	18233.6	19209.3	16198.0
50°	13442.1	13503.2	13842.9	14766.4	15864.0	16491.3	17295.7	18361.4	20225.6	20707.7	16947.2
52.5°	14234.9	14255.3	14510.8	15684.0	17077.9	17867.7	18767.9	20083.4	21848.9	21776.3	17443.8
55°	15155.5	15126.4	15344.2	16680.0	18515.3	19418.4	20466.7	21846.1	23257.4	22534.3	17728.3
57.5°	16209.6	16131.1	16343.2	18001.3	20356.3	21436.6	22502.3	23367.7	24349.2	23170.2	17864.8
60°	17313.1	17156.2	17408.9	19485.2	22525.6	23550.6	24436.3	24668.6	25499.1	23675.5	17629.5
62.5°	18192.9	18195.9	18666.2	21064.9	24755.8	25653.0	26123.5	26332.6	26489.4	23565.2	16392.5
65°	19566.5	19613.0	20365.1	23257.4	27337.3	28115.6	28437.9	27758.4	26533.0	22194.5	14534.0
67.5°	20983.6	21131.7	22508.1	26277.4	30319.6	30946.9	30531.6	28034.2	25348.2	19067.0	11020.3
70°	21445.3	21689.2	23957.1	28356.6	32108.5	32433.7	31028.2	26747.8	21189.8	12748.1	5546.5
72.5°	19650.7	20045.7	23123.8	27598.7	30967.2	30685.5	27761.3	22432.7	13471.2	4840.8	1692.9
75°	13857.4	14031.7	19218.0	22894.4	24906.7	24108.2	21117.2	14461.4	5540.7	1359.1	580.8
77.5°	7155.2	7071.0	11429.8	15190.3	17763.2	16935.6	13828.4	7486.2	2099.6	566.2	360.1
80°	3699.6	3760.5	4945.3	7959.6	10843.2	9977.8	7373.0	3470.1	1118.0	313.6	275.8
82.5°	2073.4	1945.7	2842.9	3475.9	5070.2	3975.4	2828.4	2456.7	487.9	188.7	261.4
85°	377.5	394.9	1559.4	1878.8	1759.8	1118.0	911.8	1640.7	142.3	104.5	182.9
87.5°	5.8	5.8	302.0	540.1	342.6	156.8	287.5	235.2	29.0	40.6	32.0
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°	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9	6742.9
2.5°	6710.9	6600.6	6394.4	6191.1	5932.7	5720.7	5578.4	5430.3	5279.3	5290.9	5325.7
5°	6594.8	6403.1	5996.6	5566.7	5154.4	4782.7	4416.8	4088.7	3955.1	3833.1	3839.0
7.5°	6478.6	6208.5	5613.3	4939.5	4315.2	3682.2	3223.3	2845.9	2645.4	2494.5	2450.9
10°	6426.3	6069.2	5261.9	4335.5	3449.9	2758.7	2169.2	1861.4	1623.3	1547.8	1568.1
12.5°	6449.5	5999.4	4945.3	3789.6	2735.4	1922.4	1510.0	1353.3	1300.9	1292.2	1286.4
15°	6493.1	5950.1	4634.7	3185.5	2009.5	1428.7	1269.0	1240.0	1234.2	1228.4	1231.2
17.5°	6551.2	5906.5	4303.6	2619.3	1542.0	1248.7	1202.2	1187.7	1184.8	1184.8	1184.8
20°	6609.3	5857.1	3934.8	2114.0	1286.4	1179.0	1150.0	1141.2	1138.3	1138.3	1135.4
22.5°	6676.0	5813.6	3560.2	1661.1	1184.8	1129.6	1103.5	1097.7	1094.7	1091.9	1091.9
25°	6771.9	5758.4	3162.3	1359.1	1120.9	1083.1	1057.1	1051.2	1048.3	1036.7	1039.6
27.5°	6899.6	5717.8	2752.9	1173.2	1062.9	1025.1	1007.7	998.9	993.1	984.4	987.3
30°	7073.9	5683.0	2317.3	1071.5	996.0	964.1	946.6	940.8	935.0	926.4	926.4
32.5°	7375.9	5697.4	1858.5	990.2	935.0	897.3	879.9	874.1	868.2	859.6	859.6
35°	7829.0	5781.7	1486.8	920.6	862.4	824.7	807.3	807.3	798.6	786.9	784.1
37.5°	8569.4	5996.6	1193.5	853.8	792.7	757.9	737.6	731.8	723.1	705.7	702.7
40°	9443.5	6330.5	1004.7	786.9	728.9	694.0	676.6	659.2	636.0	618.6	615.6
42.5°	10541.2	6673.2	871.2	720.1	667.9	636.0	615.6	586.6	551.8	528.5	525.6
45°	11685.3	6986.8	781.1	659.2	609.8	583.7	560.4	514.0	470.5	441.4	438.5
47.5°	12539.1	7044.9	708.5	601.1	560.4	534.3	502.4	444.3	386.2	360.1	351.4
50°	12942.7	6763.2	633.0	543.0	511.1	482.1	441.4	374.6	310.7	278.8	273.0
52.5°	13085.0	6275.3	572.0	490.7	461.7	426.9	377.5	302.0	243.9	212.0	209.1
55°	13026.9	5659.7	516.9	441.4	403.7	363.0	313.6	241.0	180.1	153.9	148.1
57.5°	12722.0	4875.6	461.7	392.0	345.6	304.9	249.8	180.1	121.9	98.7	95.8
60°	11900.2	3807.0	406.5	336.8	293.3	249.8	197.5	127.7	75.5	55.2	55.2
62.5°	10512.1	2825.5	354.3	281.7	246.8	200.4	139.4	81.3	40.6	29.0	26.2
65°	8784.3	2085.0	296.2	238.1	206.2	156.8	98.7	49.4	20.4	8.7	5.8
67.5°	6130.1	1286.4	246.8	194.5	168.5	113.3	61.0	20.4	8.7	0.0	0.0
70°	2784.8	612.8	188.7	148.1	127.7	81.3	32.0	11.6	5.8	0.0	0.0
72.5°	865.4	322.4	133.6	107.5	87.1	52.3	17.4	8.7	5.8	0.0	0.0
75°	400.7	206.2	84.2	58.1	49.4	26.2	11.6	5.8	2.9	0.0	0.0
77.5°	299.1	159.7	49.4	32.0	26.2	17.4	8.7	5.8	2.9	0.0	0.0
80°	261.4	81.3	29.0	20.4	14.5	11.6	5.8	2.9	0.0	0.0	0.0
82.5°	235.2	40.6	17.4	11.6	8.7	5.8	2.9	2.9	0.0	0.0	0.0
85°	127.7	23.2	11.6	8.7	5.8	2.9	2.9	0.0	0.0	0.0	0.0
87.5°	23.2	11.6	8.7	5.8	5.8	2.9	2.9	2.9	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)