

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: P652518

Luminaire Tested: **GALN-SA7B-840-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652518  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-840-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26685.8 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

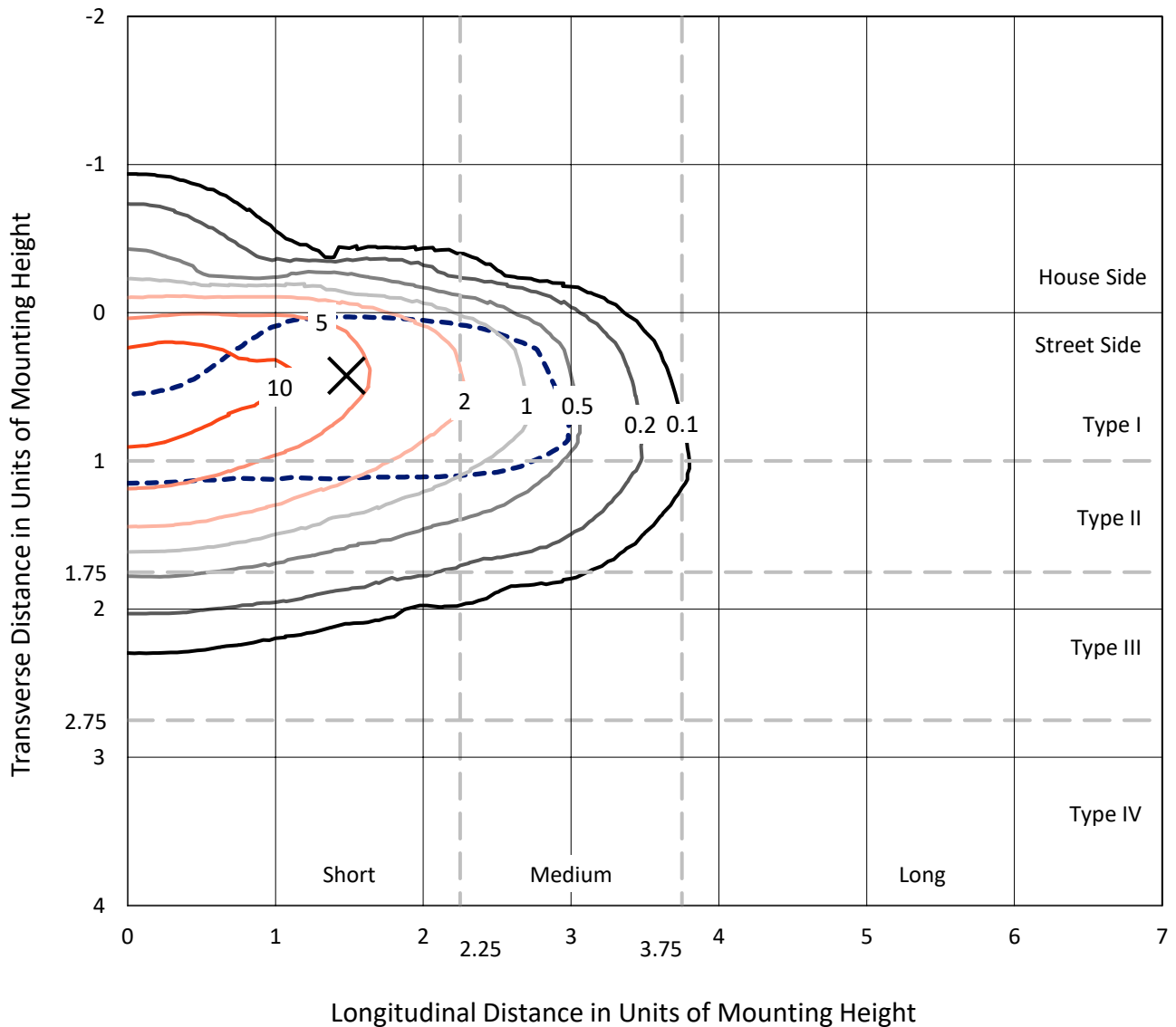
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

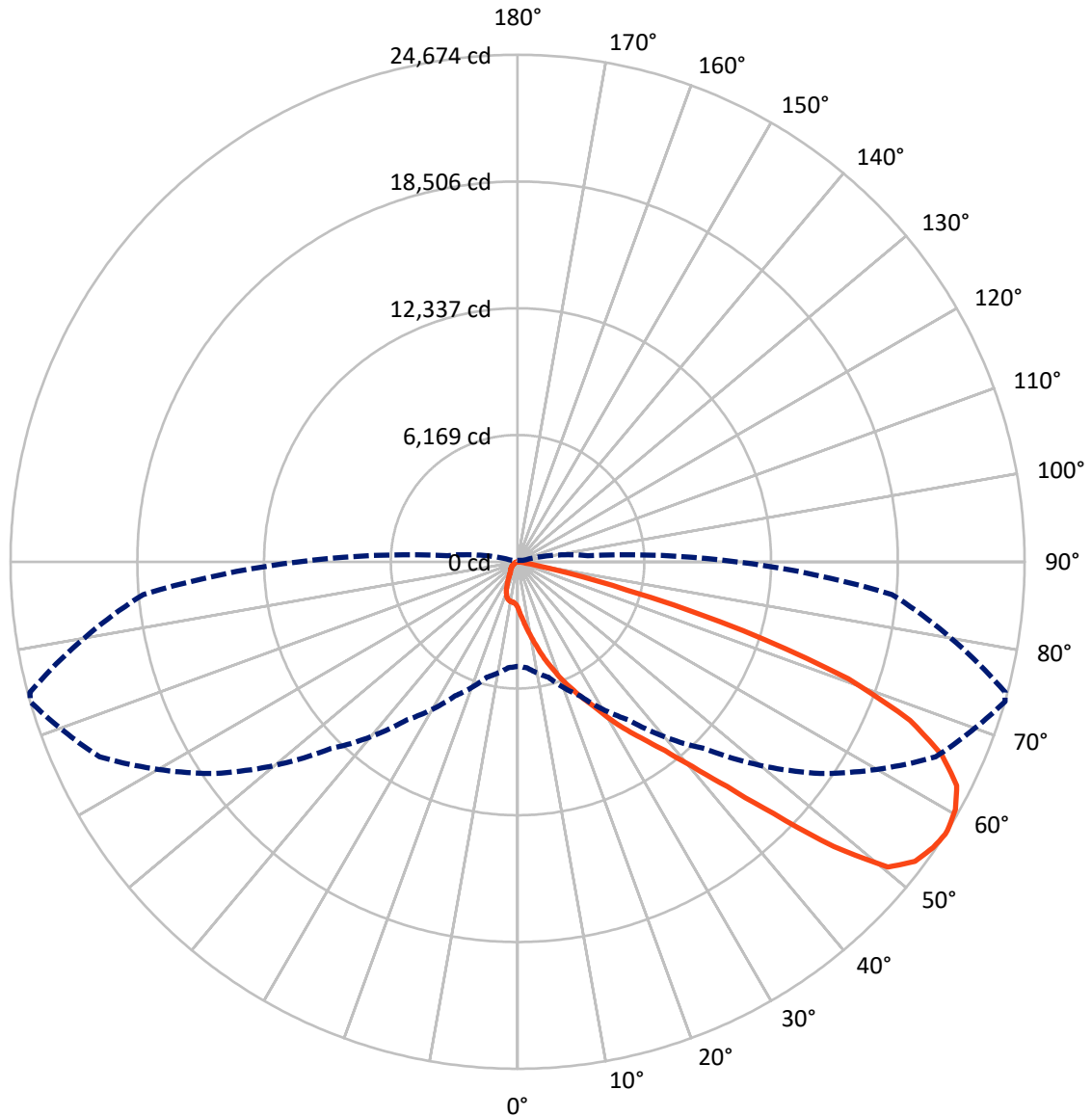
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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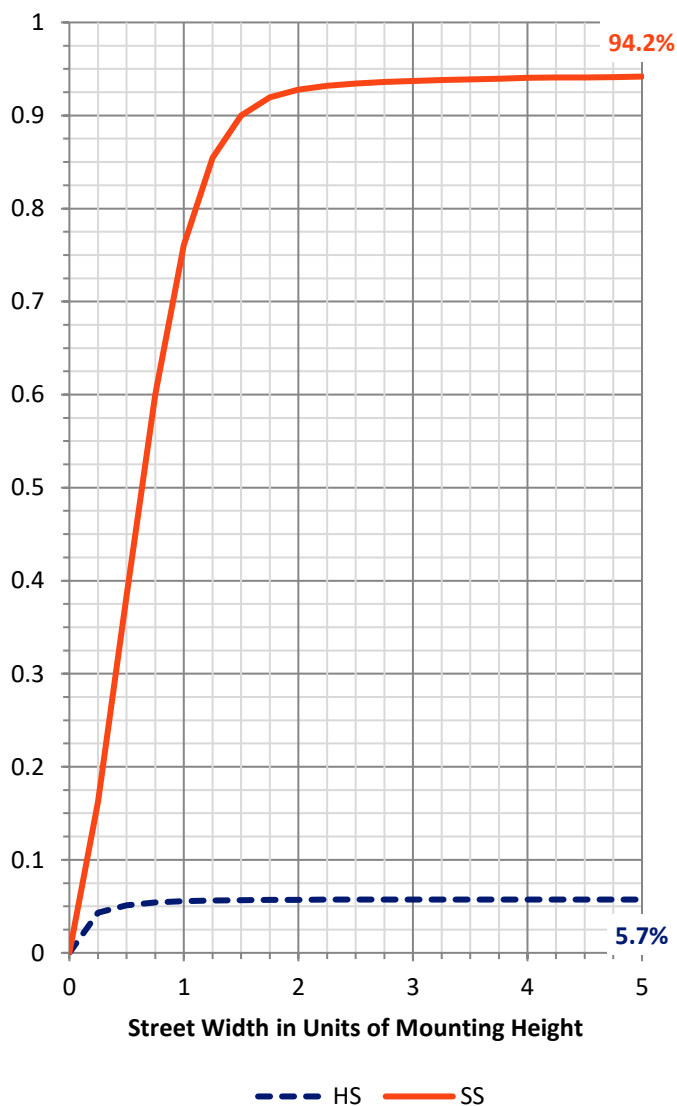
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1539.2	0.0	1539.2
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	25146.6	0.0	25146.6
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	26685.8	0.0	26685.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.8	1.0
10°-20°	1063.3	4.0
20°-30°	2275.1	8.5
30°-40°	4181.7	15.7
40°-50°	6410.6	24.0
50°-60°	6781.6	25.4
60°-70°	4428.5	16.6
70°-80°	1210.0	4.5
80°-90°	65.2	0.2
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°	26685.8	100.0
0°-180°	26685.8	100.0

**Coefficient of Utilization**



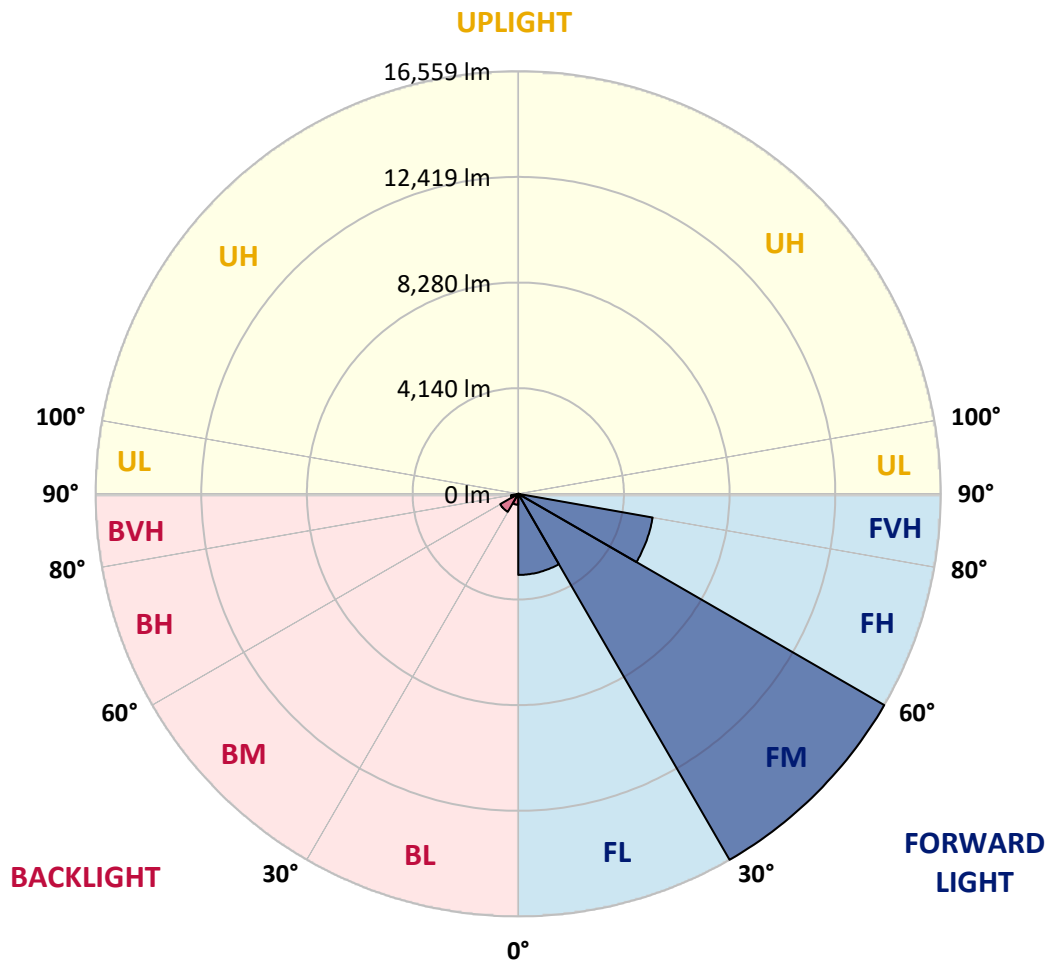
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3178.2	11.9			
FM (30°-60°)	16559.0	62.1			
FH (60°-80°)	5349.6	20.0			G3/7500
FVH (80°-90°)	59.8	0.2			G1/100
BL (0°-30°)	429.9	1.6	B1/500		
BM (30°-60°)	814.9	3.1	B1/1000		
BH (60°-80°)	289.0	1.1	B1/500		G1/500
BVH (80°-90°)	5.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9
2.5°	3270.4	3240.9	3181.9	3161.7	3075.0	2940.6	2822.6	2664.2	2538.9	2526.0	2374.9
5°	4379.5	4313.2	4285.6	4152.9	3944.7	3749.4	3414.0	3159.8	2866.9	2844.8	2540.7
7.5°	5448.2	5356.0	5328.4	5203.1	4959.9	4652.2	4217.4	3754.9	3290.7	3248.3	2763.7
10°	6222.0	6234.8	6185.1	6102.2	5905.1	5591.9	5055.7	4423.7	3762.3	3708.9	3014.2
12.5°	6776.5	6774.7	6783.9	6782.1	6677.0	6439.4	5875.6	5147.8	4281.9	4176.8	3301.7
15°	7137.7	7143.2	7170.9	7266.7	7277.7	7130.3	6660.5	5840.6	4884.4	4753.5	3613.0
17.5°	7502.5	7541.2	7585.4	7675.6	7756.7	7697.8	7366.2	6562.8	5429.7	5332.1	3946.6
20°	8105.0	8158.4	8132.6	8187.9	8230.3	8235.7	7979.7	7229.8	6091.2	5927.2	4328.0
22.5°	9068.6	9066.7	9000.4	8900.9	8818.0	8814.3	8582.2	7915.2	6691.8	6533.3	4711.2
25°	10286.4	10292.0	10163.0	9879.2	9672.9	9420.5	9153.4	8515.8	7334.8	7139.5	5114.6
27.5°	11683.0	11648.0	11452.7	11062.1	10653.1	10221.9	9836.8	9214.1	8016.5	7854.4	5577.1
30°	12937.7	12924.8	12696.3	12219.1	11681.2	11248.2	10690.0	10089.3	8899.0	8700.1	6094.8
32.5°	14105.8	14124.3	13807.4	13313.6	12794.0	12294.7	11705.1	10925.8	9765.0	9483.1	6658.6
35°	15017.8	15036.2	14708.3	14297.4	13763.1	13348.6	12786.6	11817.5	10619.9	10382.2	7307.2
37.5°	15504.3	15528.2	15338.4	15028.9	14695.5	14487.2	13964.0	12965.4	11659.0	11515.3	8073.6
40°	15596.3	15624.0	15541.1	15458.2	15439.8	15589.0	15436.1	14317.7	13099.8	12875.1	9215.9
42.5°	15320.0	15356.8	15393.7	15577.9	15953.9	16501.0	17033.5	16152.8	14955.3	14653.1	10612.6
45°	14594.1	14590.4	14735.9	15213.2	16055.2	17223.3	18702.7	18450.4	17483.0	17123.8	12585.8
47.5°	13352.3	13333.9	13648.9	14328.8	15640.6	17356.0	20064.3	21239.8	20709.2	20377.6	14706.5
50°	11460.1	11550.4	12046.0	12994.9	14610.7	16954.3	20484.4	23069.4	23356.8	23004.9	16419.9
52.5°	9243.6	9239.9	10017.4	11305.3	13085.1	16069.9	20191.5	23401.0	24217.3	23948.2	17263.8
55°	6841.0	6889.0	7697.8	8996.7	11104.5	14455.9	19235.3	23060.1	24545.2	24355.4	17820.2
57°	5088.9	5173.6	5822.2	7196.6	9379.9	12858.5	17962.1	22450.3	24674.2	24571.0	18282.7
57.5°	4749.9	4753.5	5385.5	6634.6	8875.1	12245.0	17597.3	22196.1	24670.5	24613.4	18358.2
60°	2924.0	3016.1	3452.7	4484.5	6496.5	9556.8	15152.4	20735.0	24478.9	24561.7	18680.6
62.5°	1750.4	1789.1	2072.7	2702.9	4187.9	6975.5	12399.7	18864.9	23979.5	24232.0	18658.5
65°	1125.8	1134.9	1263.9	1636.1	2618.1	4714.8	9554.9	16394.2	22688.0	23152.3	17928.9
67.5°	869.7	884.4	935.9	1074.1	1518.2	2936.9	6758.1	13757.6	20598.6	21197.5	16160.2
70°	772.0	779.4	797.8	842.0	1004.2	1658.2	4204.5	10747.1	17081.4	17250.9	12646.6
72.5°	630.2	650.3	707.5	722.3	795.9	1035.4	2339.9	7213.2	11476.6	11519.0	7075.0
75°	488.3	491.9	576.7	619.1	670.6	713.0	1044.7	3637.0	5512.6	5217.8	2726.9
77.5°	364.8	381.4	420.1	473.5	547.2	510.3	468.0	1370.7	1711.6	1680.3	792.2
80°	234.0	243.2	292.9	355.6	425.6	333.5	263.5	401.7	375.8	386.9	189.8
82.5°	117.9	119.8	188.0	289.3	270.8	167.7	165.8	164.0	140.0	138.2	88.5
85°	12.9	27.7	121.6	165.8	121.6	55.3	77.4	75.5	73.7	75.5	51.6
87.5°	1.9	1.9	20.3	24.0	16.6	18.4	22.1	24.0	29.5	27.7	22.1
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°	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9
2.5°	2301.2	2227.6	2091.1	1960.4	1862.7	1800.1	1719.0	1689.6	1647.2	1641.6	1621.4
5°	2400.7	2260.7	2023.0	1835.1	1684.0	1569.8	1470.3	1387.4	1321.0	1306.3	1313.6
7.5°	2542.6	2334.4	2002.8	1746.7	1536.6	1341.3	1182.9	1085.2	1015.2	989.4	993.1
10°	2702.9	2432.0	1999.1	1652.6	1332.1	1092.5	919.4	832.8	792.2	777.5	760.9
12.5°	2892.6	2544.4	1989.9	1507.2	1107.3	871.4	748.1	696.4	657.7	646.7	646.7
15°	3106.4	2664.2	1945.7	1326.6	899.1	720.4	637.5	596.9	584.1	573.0	573.0
17.5°	3329.4	2782.1	1853.5	1103.6	746.2	617.2	565.7	541.7	523.3	510.3	510.3
20°	3583.6	2898.2	1706.1	906.5	630.2	550.9	510.3	482.7	468.0	456.9	453.2
22.5°	3825.0	2992.1	1518.2	744.4	549.1	495.6	458.8	429.3	414.5	409.1	409.1
25°	4075.5	3049.3	1291.5	615.4	501.2	449.6	409.1	385.1	372.1	368.5	366.7
27.5°	4318.7	3082.4	1092.5	538.0	456.9	407.2	368.5	350.1	337.2	333.5	335.3
30°	4613.5	3088.0	899.1	482.7	418.2	366.7	331.6	315.0	307.7	304.0	302.2
32.5°	4911.9	3080.6	755.4	449.6	381.4	331.6	302.2	289.3	283.8	278.2	278.2
35°	5247.3	3041.9	643.0	416.4	346.4	302.2	276.4	265.3	257.9	252.4	250.5
37.5°	5663.7	3021.6	578.5	379.5	315.0	274.5	250.5	239.5	234.0	226.6	224.8
40°	6319.6	3111.9	558.3	346.4	283.8	248.8	226.6	213.7	206.4	199.0	197.1
42.5°	7137.7	3270.4	525.1	313.2	256.1	224.8	202.7	188.0	175.0	165.8	162.1
45°	8197.1	3478.5	473.5	278.2	232.1	199.0	178.7	160.3	143.7	136.3	134.5
47.5°	9308.1	3679.4	427.5	250.5	206.4	176.9	154.7	134.5	119.8	114.2	112.4
50°	9989.8	3719.9	398.0	219.2	180.6	152.9	130.8	112.4	103.2	97.6	97.6
52.5°	10301.2	3655.4	357.4	191.6	156.6	134.5	112.4	97.6	92.1	88.5	86.6
55°	10518.6	3555.9	304.0	165.8	134.5	114.2	99.5	88.5	81.1	77.4	75.5
57°	10645.7	3421.4	263.5	145.6	116.1	99.5	88.5	79.2	71.8	64.5	64.5
57.5°	10651.3	3369.9	252.4	143.7	110.5	95.8	86.6	77.4	68.2	60.8	59.0
60°	10487.3	3016.1	202.7	121.6	88.5	81.1	71.8	60.8	47.9	40.5	38.7
62.5°	9960.3	2566.6	167.7	103.2	71.8	62.7	51.6	46.1	33.1	24.0	24.0
65°	9162.5	2082.0	143.7	82.9	59.0	46.1	35.0	33.1	20.3	11.0	9.3
67.5°	8009.2	1621.4	121.6	68.2	49.8	33.1	24.0	22.1	11.0	3.7	0.0
70°	6102.2	1105.5	101.3	55.3	36.8	24.0	16.6	12.9	7.4	1.9	0.0
72.5°	3517.2	608.0	84.8	42.4	27.7	18.4	12.9	7.4	7.4	0.0	0.0
75°	1256.5	261.6	64.5	31.3	22.1	14.7	9.3	3.7	5.6	1.9	0.0
77.5°	399.8	140.0	42.4	24.0	18.4	11.0	7.4	3.7	3.7	1.9	0.0
80°	117.9	73.7	25.8	20.3	12.9	9.3	5.6	1.9	3.7	1.9	0.0
82.5°	64.5	36.8	20.3	14.7	12.9	7.4	5.6	1.9	1.9	1.9	0.0
85°	33.1	22.1	16.6	14.7	12.9	7.4	5.6	1.9	0.0	1.9	1.9
87.5°	18.4	16.6	16.6	14.7	12.9	9.3	5.6	1.9	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)