

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: P647018

Luminaire Tested: **GALN-SA6C-835-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647018  
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-SA6C-835-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1050mA 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: 26135 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

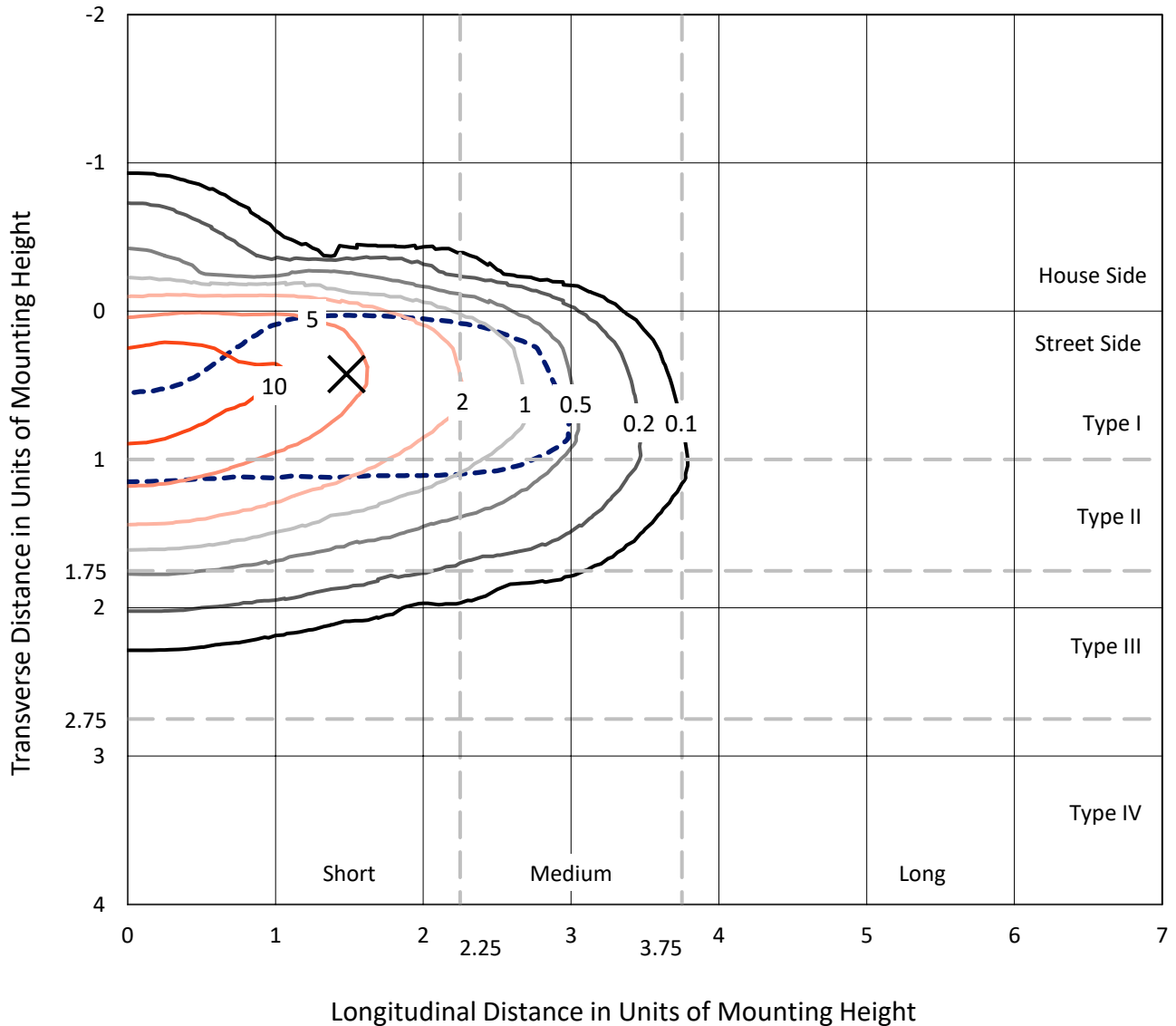
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

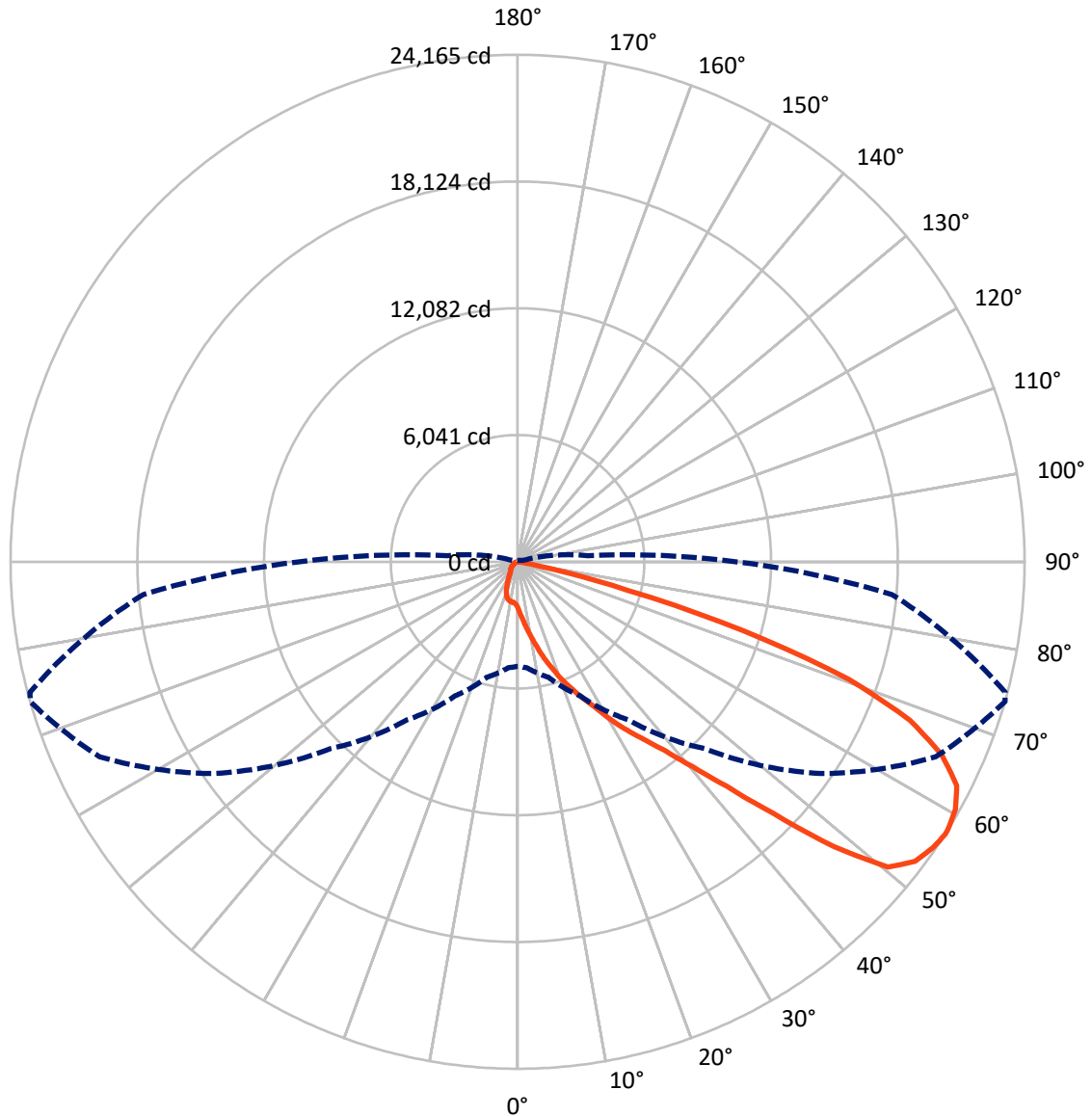
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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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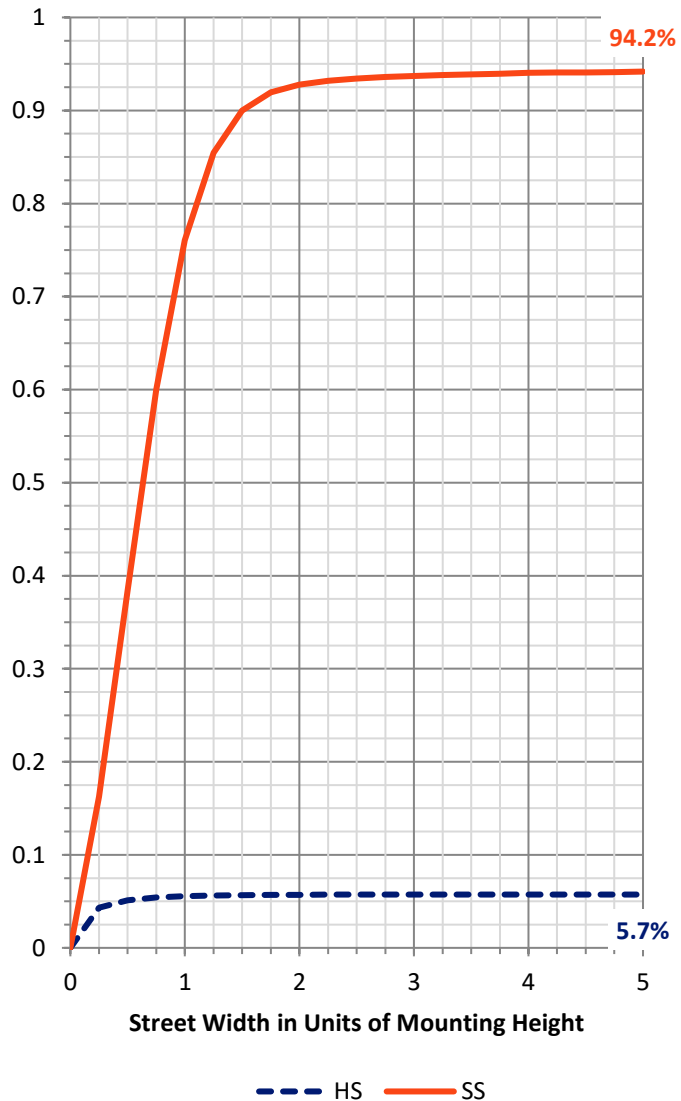
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1507.4	0.0	1507.4
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	24627.6	0.0	24627.6
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	26135.0	0.0	26135.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.2	1.0
10°-20°	1041.3	4.0
20°-30°	2228.2	8.5
30°-40°	4095.4	15.7
40°-50°	6278.3	24.0
50°-60°	6641.6	25.4
60°-70°	4337.1	16.6
70°-80°	1185.1	4.5
80°-90°	63.8	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°	26135.0	100.0
0°-180°	26135.0	100.0

**Coefficient of Utilization**



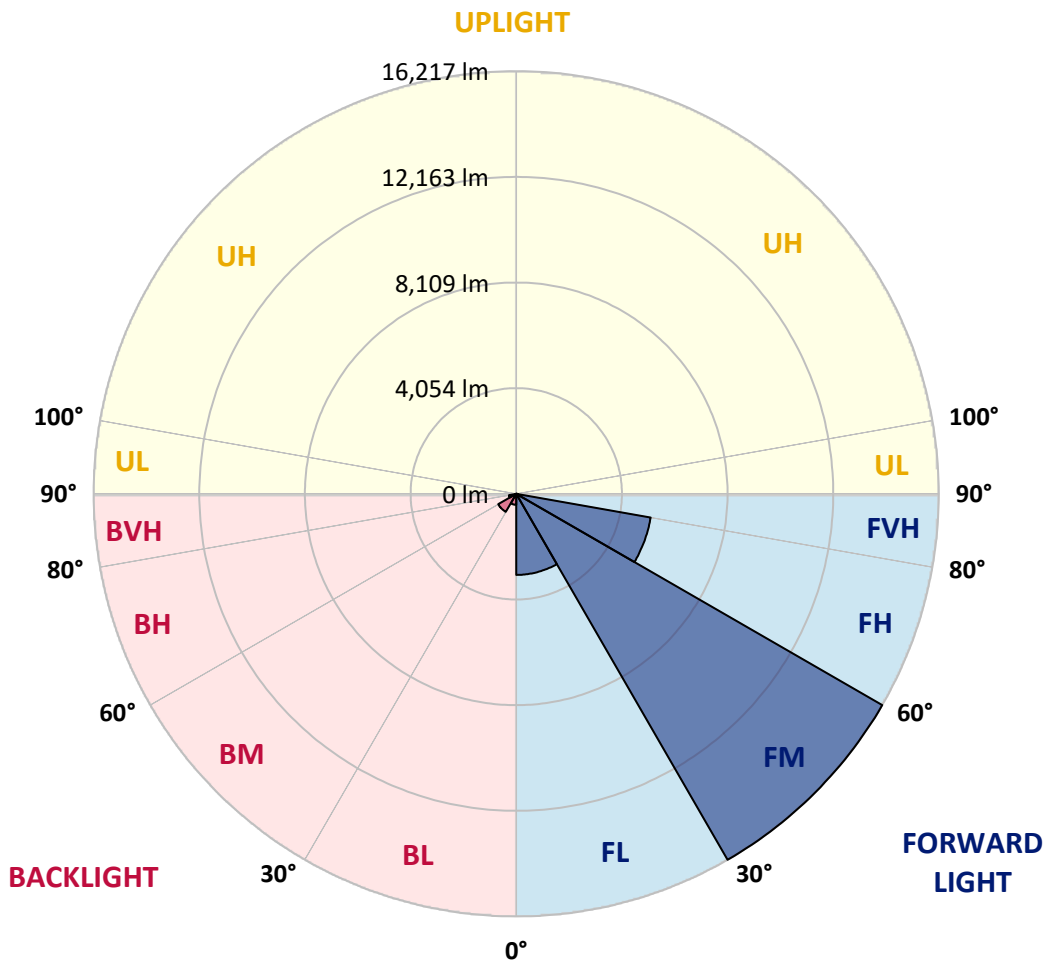
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3112.6	11.9			
FM (30°-60°)	16217.2	62.1			
FH (60°-80°)	5239.2	20.0			G3/7500
FVH (80°-90°)	58.5	0.2			G1/100
BL (0°-30°)	421.1	1.6	B1/500		
BM (30°-60°)	798.1	3.1	B1/1000		
BH (60°-80°)	283.0	1.1	B1/500		G1/500
BVH (80°-90°)	5.3	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°	2188.8	2188.8	2188.8	2188.8	2188.8	2188.8	2188.8	2188.8	2188.8	2188.8	2188.8
2.5°	3202.9	3174.0	3116.3	3096.4	3011.6	2879.9	2764.4	2609.2	2486.5	2473.9	2325.9
5°	4289.1	4224.1	4197.1	4067.2	3863.2	3672.0	3343.6	3094.6	2807.7	2786.1	2488.3
7.5°	5335.7	5245.5	5218.4	5095.7	4857.5	4556.2	4130.3	3677.4	3222.7	3181.2	2706.7
10°	6093.5	6106.1	6057.4	5976.2	5783.2	5476.5	4951.4	4332.4	3684.6	3632.3	2952.1
12.5°	6636.7	6634.9	6643.9	6642.1	6539.2	6306.4	5754.3	5041.6	4193.5	4090.6	3233.6
15°	6990.4	6995.8	7022.8	7116.7	7127.5	6983.1	6523.0	5720.0	4783.5	4655.4	3538.5
17.5°	7347.6	7385.5	7428.8	7517.3	7596.7	7538.9	7214.1	6427.3	5317.7	5222.0	3865.0
20°	7937.7	7990.0	7964.8	8018.9	8060.4	8065.8	7815.0	7080.6	5965.4	5804.8	4238.6
22.5°	8881.4	8879.6	8814.6	8717.2	8636.0	8632.3	8405.0	7751.9	6553.7	6398.5	4613.9
25°	10074.1	10079.6	9953.2	9675.4	9473.2	9226.0	8964.4	8340.0	7183.4	6992.2	5009.1
27.5°	11441.9	11407.6	11216.3	10833.7	10433.2	10011.0	9633.8	9023.9	7851.1	7692.3	5462.0
30°	12670.7	12658.1	12434.3	11967.0	11440.1	11016.0	10469.3	9881.1	8715.4	8520.5	5969.0
32.5°	13814.7	13832.7	13522.4	13038.8	12530.0	12041.0	11463.5	10700.2	9563.5	9287.4	6521.2
35°	14707.9	14726.0	14404.8	14002.4	13479.0	13073.0	12522.8	11573.6	10400.7	10168.0	7156.4
37.5°	15184.2	15207.7	15021.9	14718.7	14392.1	14188.2	13675.7	12697.8	11418.4	11277.7	7907.0
40°	15274.5	15301.5	15220.3	15139.1	15121.1	15267.2	15117.5	14022.2	12829.5	12609.4	9025.7
42.5°	15003.8	15039.9	15076.0	15256.4	15624.5	16160.4	16681.9	15819.4	14646.6	14350.6	10393.5
45°	14292.9	14289.3	14431.8	14899.2	15723.8	16867.8	18316.7	18069.5	17122.2	16770.4	12326.1
47.5°	13076.6	13058.6	13367.2	14033.0	15317.8	16997.7	19650.2	20801.4	20281.7	19956.9	14403.0
50°	11223.5	11311.9	11797.4	12726.6	14309.1	16604.4	20061.6	22593.2	22874.7	22530.0	16081.0
52.5°	9052.8	9049.2	9810.7	11071.9	12815.0	15738.2	19774.7	22918.0	23717.4	23454.0	16907.5
55°	6699.8	6746.7	7538.9	8811.0	10875.2	14157.5	18838.2	22584.2	24038.6	23852.7	17452.4
57°	4983.8	5066.8	5702.0	7048.1	9186.3	12593.1	17591.3	21987.0	24164.9	24063.9	17905.3
57.5°	4651.8	4655.4	5274.4	6497.7	8691.9	11992.2	17234.1	21738.0	24161.3	24105.4	17979.3
60°	2863.6	2953.9	3381.5	4392.0	6362.4	9359.6	14839.6	20307.0	23973.6	24054.9	18295.1
62.5°	1714.2	1752.1	2030.0	2647.1	4101.4	6831.6	12143.8	18475.5	23484.6	23731.8	18273.4
65°	1102.5	1111.5	1237.8	1602.3	2564.1	4617.5	9357.8	16055.8	22219.7	22674.4	17558.9
67.5°	851.7	866.2	916.7	1052.0	1486.8	2876.3	6618.6	13473.6	20173.5	20759.9	15826.6
70°	756.1	763.3	781.4	824.7	983.4	1624.0	4117.7	10525.2	16728.9	16894.9	12385.6
72.5°	617.1	637.0	692.9	707.4	779.5	1014.1	2291.6	7064.3	11239.8	11281.3	6929.0
75°	478.2	481.8	564.8	606.3	656.8	698.3	1023.1	3561.9	5398.9	5110.2	2670.6
77.5°	357.3	373.5	411.4	463.8	535.9	499.8	458.3	1342.5	1676.3	1645.6	775.9
80°	229.2	238.2	286.9	348.3	416.8	326.6	258.0	393.4	368.1	378.9	185.9
82.5°	115.5	117.3	184.1	283.3	265.3	164.2	162.4	160.6	137.1	135.3	86.6
85°	12.6	27.1	119.1	162.4	119.1	54.1	75.8	74.0	72.2	74.0	50.5
87.5°	1.8	1.8	19.8	23.5	16.2	18.0	21.7	23.5	28.9	27.1	21.7
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°	2188.8	2188.8	2188.8	2188.8	2188.8	2188.8	2188.8	2188.8	2188.8	2188.8	2188.8
2.5°	2253.7	2181.5	2048.0	1919.9	1824.3	1762.9	1683.5	1654.6	1613.1	1607.7	1587.9
5°	2351.2	2214.0	1981.2	1797.2	1649.2	1537.3	1439.9	1358.7	1293.8	1279.3	1286.5
7.5°	2490.1	2286.2	1961.4	1710.6	1504.9	1313.6	1158.4	1062.8	994.3	969.0	972.6
10°	2647.1	2381.8	1957.8	1618.5	1304.6	1070.0	900.4	815.6	775.9	761.5	745.3
12.5°	2833.0	2491.9	1948.8	1476.0	1084.5	853.5	732.6	682.1	644.2	633.4	633.4
15°	3042.3	2609.2	1905.5	1299.2	880.6	705.6	624.4	584.7	572.0	561.2	561.2
17.5°	3260.6	2724.7	1815.2	1080.9	730.8	604.5	554.0	530.5	512.5	499.8	499.8
20°	3509.6	2838.4	1670.9	887.8	617.1	539.5	499.8	472.8	458.3	447.5	443.9
22.5°	3746.0	2930.4	1486.8	729.0	537.7	485.4	449.3	420.4	406.0	400.6	400.6
25°	3991.4	2986.4	1264.9	602.7	490.8	440.3	400.6	377.1	364.5	360.9	359.1
27.5°	4229.6	3018.8	1070.0	526.9	447.5	398.8	360.9	342.9	330.2	326.6	328.4
30°	4518.3	3024.2	880.6	472.8	409.6	359.1	324.8	308.6	301.4	297.7	295.9
32.5°	4810.6	3017.0	739.8	440.3	373.5	324.8	295.9	283.3	277.9	272.5	272.5
35°	5139.0	2979.1	629.8	407.8	339.2	295.9	270.7	259.8	252.6	247.2	245.4
37.5°	5546.8	2959.3	566.6	371.7	308.6	268.9	245.4	234.6	229.2	222.0	220.1
40°	6189.2	3047.7	546.8	339.2	277.9	243.6	222.0	209.3	202.1	194.9	193.1
42.5°	6990.4	3202.9	514.3	306.8	250.8	220.1	198.5	184.1	171.4	162.4	158.8
45°	8027.9	3406.8	463.8	272.5	227.4	194.9	175.0	157.0	140.8	133.5	131.7
47.5°	9116.0	3603.4	418.6	245.4	202.1	173.2	151.6	131.7	117.3	111.9	110.1
50°	9783.6	3643.1	389.8	214.7	176.8	149.8	128.1	110.1	101.1	95.6	95.6
52.5°	10088.6	3580.0	350.1	187.7	153.4	131.7	110.1	95.6	90.2	86.6	84.8
55°	10301.5	3482.5	297.7	162.4	131.7	111.9	97.4	86.6	79.4	75.8	74.0
57°	10426.0	3350.8	258.0	142.6	113.7	97.4	86.6	77.6	70.4	63.2	63.2
57.5°	10431.4	3300.3	247.2	140.8	108.3	93.8	84.8	75.8	66.8	59.5	57.7
60°	10270.8	2953.9	198.5	119.1	86.6	79.4	70.4	59.5	46.9	39.7	37.9
62.5°	9754.8	2513.6	164.2	101.1	70.4	61.4	50.5	45.1	32.5	23.5	23.5
65°	8973.4	2039.0	140.8	81.2	57.7	45.1	34.3	32.5	19.8	10.8	9.0
67.5°	7843.9	1587.9	119.1	66.8	48.7	32.5	23.5	21.7	10.8	3.6	0.0
70°	5976.2	1082.7	99.2	54.1	36.1	23.5	16.2	12.6	7.2	1.8	0.0
72.5°	3444.7	595.5	83.0	41.5	27.1	18.0	12.6	7.2	7.2	0.0	0.0
75°	1230.6	256.2	63.2	30.7	21.7	14.4	9.0	3.6	5.4	1.8	0.0
77.5°	391.6	137.1	41.5	23.5	18.0	10.8	7.2	3.6	3.6	1.8	0.0
80°	115.5	72.2	25.3	19.8	12.6	9.0	5.4	1.8	3.6	1.8	0.0
82.5°	63.2	36.1	19.8	14.4	12.6	7.2	5.4	1.8	1.8	1.8	0.0
85°	32.5	21.7	16.2	14.4	12.6	7.2	5.4	1.8	0.0	1.8	1.8
87.5°	18.0	16.2	16.2	14.4	12.6	9.0	5.4	1.8	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)