

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: P647563

Luminaire Tested: **GALN-SA7D-835-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647563  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-835-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24887.7 lumens  
Efficiency: N/A  
Efficacy: 57.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

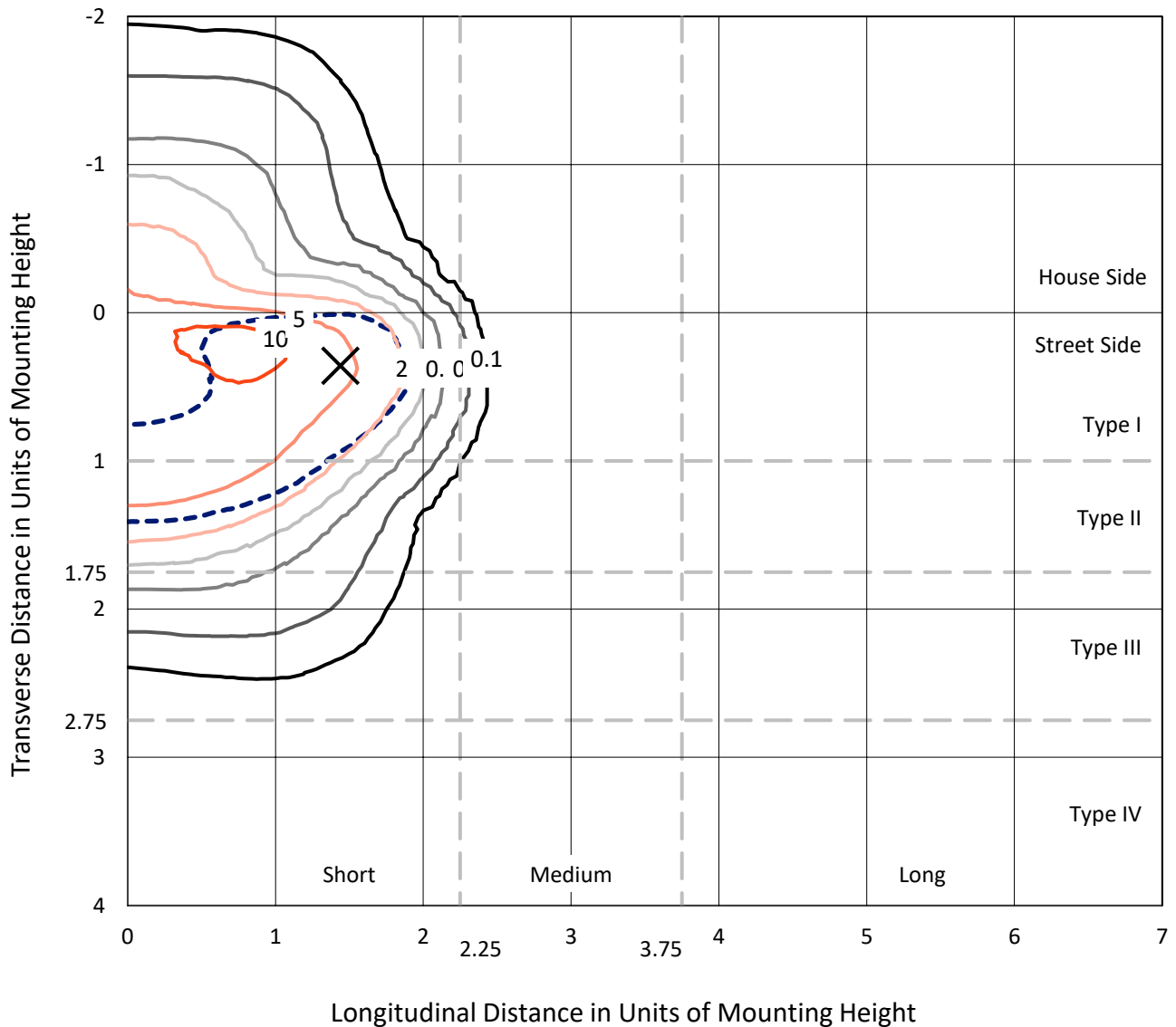
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

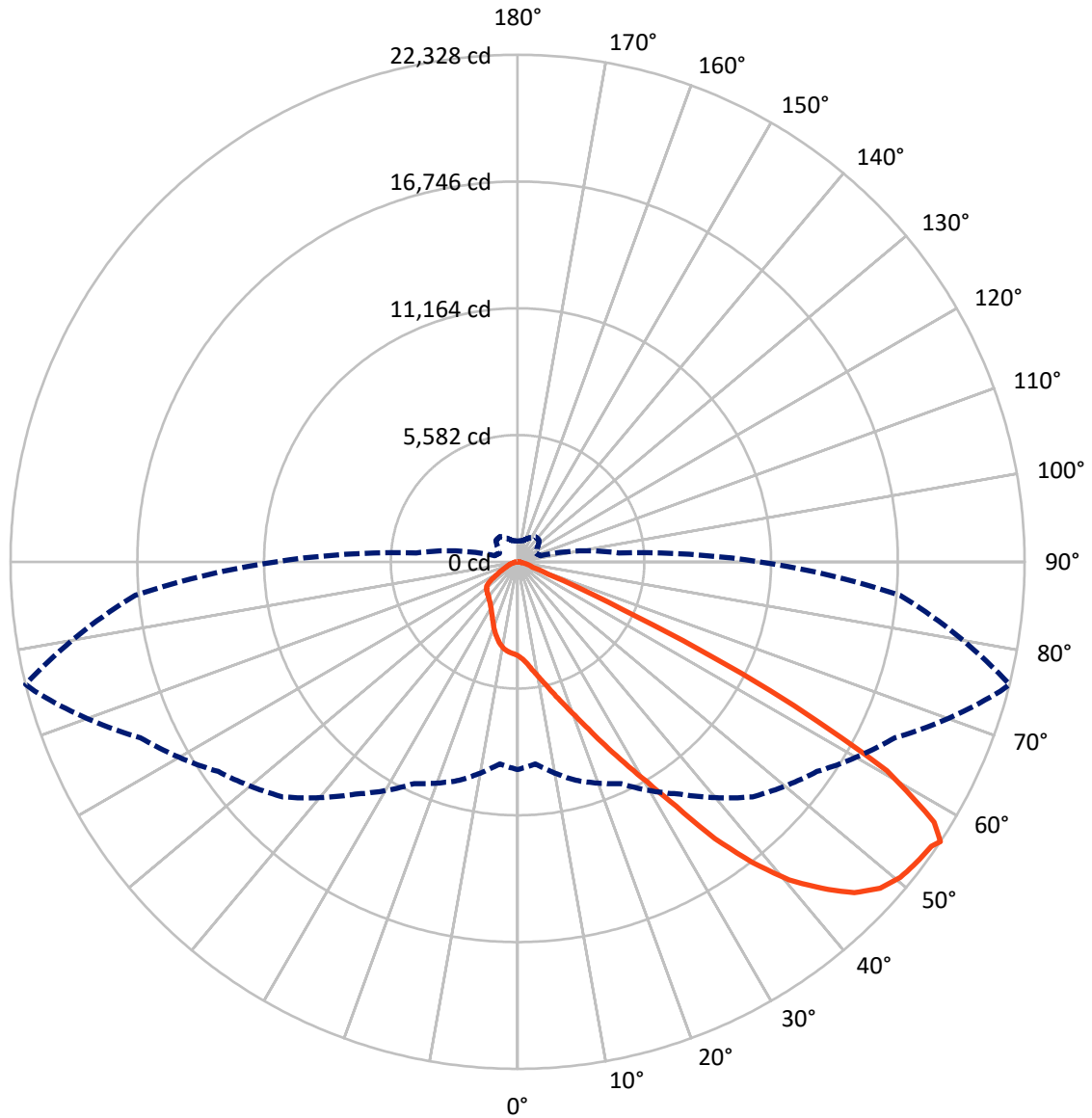
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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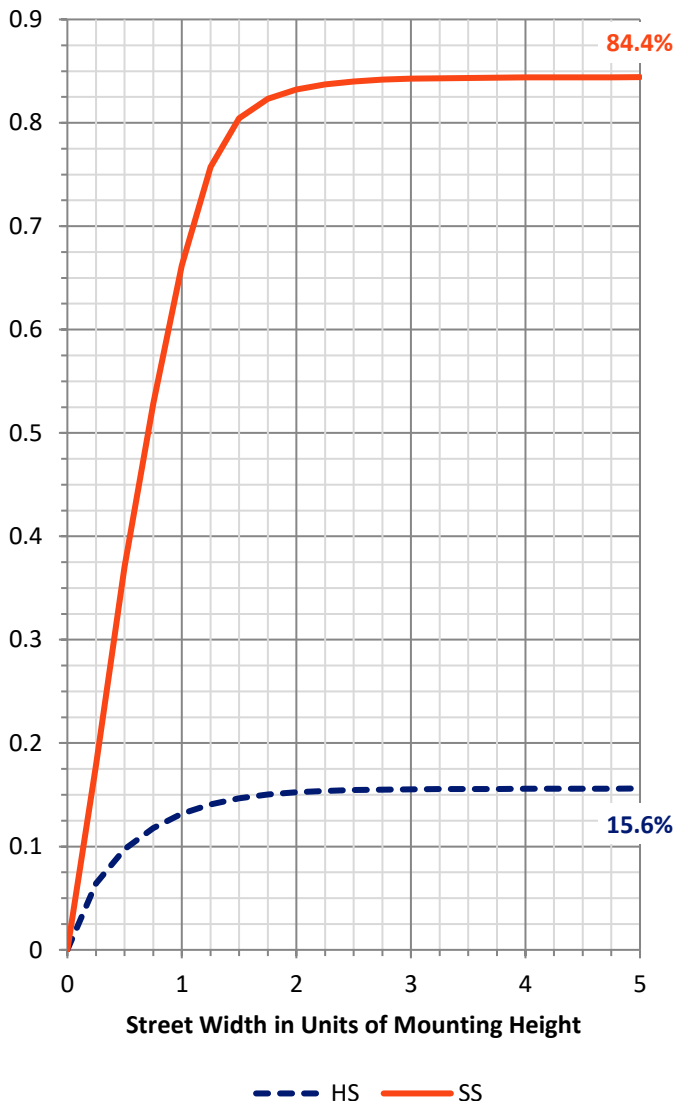
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3909.7	0.0	3909.7
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	20977.9	0.0	20977.9
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	24887.7	0.0	24887.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	417.3	1.7
10°-20°	1340.7	5.4
20°-30°	2431.0	9.8
30°-40°	4192.3	16.8
40°-50°	6810.6	27.4
50°-60°	7178.6	28.8
60°-70°	2193.4	8.8
70°-80°	281.2	1.1
80°-90°	42.7	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°	24887.7	100.0
0°-180°	24887.7	100.0



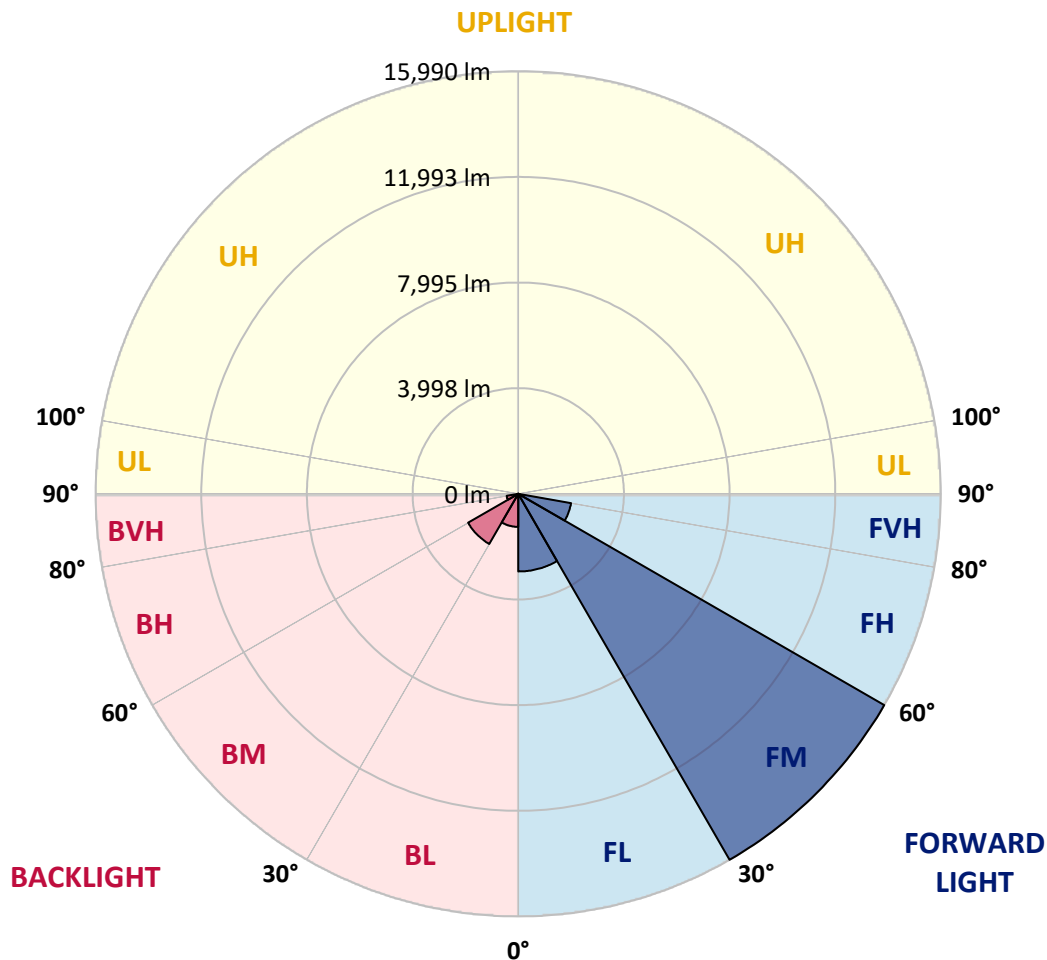
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2938.2	11.8			
FM (30°-60°)	15990.3	64.2			
FH (60°-80°)	2028.5	8.2			G2/5000
FVH (80°-90°)	20.9	0.1			G1/100
BL (0°-30°)	1250.7	5.0	B3/2500		
BM (30°-60°)	2191.2	8.8	B2/2500		
BH (60°-80°)	446.0	1.8	B1/500		G1/500
BVH (80°-90°)	21.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6
2.5°	4771.1	4661.0	4665.6	4656.4	4642.6	4592.1	4440.8	4417.8	4316.9	4289.4	4197.7
5°	5344.5	5248.2	5303.3	5220.7	5142.7	5096.8	4849.0	4734.4	4573.8	4514.2	4385.7
7.5°	5702.4	5656.5	5638.1	5642.7	5569.3	5454.6	5344.5	5092.2	4876.6	4830.7	4560.0
10°	5876.7	5849.2	5876.7	5862.9	5895.1	5908.8	5716.1	5564.7	5248.2	5170.2	4748.1
12.5°	5918.0	5973.0	5996.0	6055.6	6133.6	6266.7	6252.9	6046.4	5624.4	5573.9	5037.2
15°	6018.9	6064.8	6041.9	6138.2	6285.0	6509.8	6629.0	6596.9	6142.8	6051.0	5372.1
17.5°	6110.7	6028.1	6106.1	6298.8	6445.6	6789.6	7078.6	7211.7	6707.0	6601.6	5679.4
20°	6234.6	6211.6	6197.8	6294.1	6555.7	7014.4	7587.9	7831.0	7340.2	7230.1	6119.8
22.5°	6610.7	6615.3	6606.1	6463.9	6652.0	7170.4	8032.9	8633.8	8097.1	8005.3	6619.9
25°	7106.2	7046.5	7000.6	6885.9	6863.0	7312.6	8482.5	9615.6	9005.4	8941.2	7161.2
27.5°	7629.2	7629.2	7491.5	7386.0	7239.2	7665.9	8895.3	10569.8	10101.9	10014.7	7633.7
30°	8198.0	8230.1	8211.8	7987.0	7895.2	8051.2	9317.4	11790.1	11358.8	11248.7	8413.6
32.5°	9037.5	8968.7	9046.7	8858.6	8587.9	8725.6	9982.5	12881.9	12992.0	12836.0	9436.6
35°	10147.8	10106.4	10056.0	9748.6	9427.5	9537.6	10923.0	14226.1	15042.7	14964.7	10468.9
37.5°	11143.3	11120.3	11079.0	10868.0	10496.4	10629.5	11992.0	15625.3	17042.9	16786.0	11927.8
40°	12189.2	12313.1	12180.0	11992.0	11652.4	11946.1	13248.9	16455.7	18726.5	18414.6	13042.5
42.5°	13606.7	13510.4	13570.1	13226.0	13042.5	13363.6	14510.6	17286.0	20034.0	19662.4	14226.1
45°	15116.0	15120.7	14960.1	14850.0	14372.9	14721.6	15285.8	17744.7	21075.4	20786.3	15120.7
47.5°	16084.1	16079.5	16253.8	16428.1	15937.3	15593.2	15813.4	18180.6	21612.1	21479.1	15446.4
50°	15932.6	15978.5	16203.3	16854.8	17111.7	16648.3	16308.9	18052.1	21855.3	21841.5	15726.2
52.5°	13859.1	14010.5	14386.7	15327.1	16620.8	17194.3	16827.2	18290.7	21974.5	21997.4	16143.7
55°	10551.5	10634.0	11349.7	12492.0	13923.3	15886.8	16620.8	18478.8	22066.3	22107.5	16648.3
56°	9152.3	8932.0	9964.2	10776.2	12487.4	14634.4	16097.9	18332.0	22011.2	22327.8	16900.7
57.5°	6908.9	6762.1	7597.1	8610.9	10257.8	12524.1	14473.8	17639.3	21639.6	21635.1	16538.2
60°	4202.2	4055.4	4697.7	5294.1	6216.2	7711.7	9780.8	14047.2	18295.3	18680.7	13391.2
62.5°	2500.2	2592.0	3225.1	3587.5	3885.7	4041.7	5060.1	8349.4	12207.6	12482.8	8308.1
65°	1665.3	1697.4	2174.5	2770.9	2903.9	2312.1	2059.8	3381.1	5294.1	5124.3	3427.0
67.5°	1027.6	1101.1	1458.9	2082.8	2307.6	1688.2	977.2	1261.6	1458.9	1458.9	990.9
70°	623.9	660.6	972.6	1417.5	1582.7	1087.3	711.0	711.0	701.9	688.1	591.8
72.5°	298.2	321.1	495.5	729.4	743.2	573.5	550.5	601.0	587.2	582.6	490.9
75°	128.5	137.7	174.3	229.3	261.5	243.1	334.9	431.2	445.0	431.2	353.2
77.5°	41.3	45.9	64.2	82.6	87.1	105.5	142.2	178.9	206.5	192.7	174.3
80°	4.6	9.2	18.3	41.3	64.2	82.6	105.5	119.3	133.0	133.0	123.9
82.5°	4.6	4.6	18.3	36.7	59.7	78.0	100.9	114.7	133.0	137.7	128.5
85°	0.0	4.6	13.8	32.1	50.4	50.4	45.9	45.9	32.1	32.1	32.1
87.5°	0.0	0.0	4.6	4.6	4.6	9.2	9.2	9.2	9.2	9.2	9.2
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°	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6
2.5°	4179.3	4170.1	4046.2	3968.2	3927.0	3844.4	3793.9	3757.2	3729.7	3697.6	3702.2
5°	4234.3	4202.2	3995.8	3853.5	3683.9	3592.1	3514.1	3449.9	3408.6	3399.4	3381.1
7.5°	4390.3	4220.6	3908.7	3651.7	3436.1	3344.3	3275.5	3234.3	3252.6	3211.3	3243.4
10°	4509.6	4257.2	3803.1	3431.5	3215.9	3147.1	3110.4	3142.5	3188.4	3170.1	3147.1
12.5°	4656.4	4294.0	3633.4	3220.5	3018.6	2968.2	3032.4	3092.1	3183.8	3220.5	3174.6
15°	4821.6	4335.2	3417.7	2977.4	2848.9	2890.2	3000.3	3105.8	3197.5	3243.4	3271.0
17.5°	5023.4	4321.5	3206.7	2784.7	2688.4	2807.6	2940.6	3036.9	3174.6	3243.4	3225.1
20°	5211.5	4275.6	2972.7	2592.0	2596.6	2706.7	2816.8	2972.7	3046.2	3137.9	3105.8
22.5°	5390.4	4193.0	2729.6	2458.9	2458.9	2628.7	2683.7	2784.7	2848.9	2894.8	2890.2
25°	5642.7	4037.1	2527.8	2330.5	2385.6	2495.7	2541.5	2573.6	2546.1	2582.8	2587.4
27.5°	5821.6	3876.5	2362.6	2215.8	2316.7	2399.3	2385.6	2367.2	2303.0	2252.5	2284.6
30°	6014.3	3688.4	2220.4	2137.8	2192.9	2266.2	2211.2	2156.1	2055.2	1972.7	1977.2
32.5°	6289.6	3601.3	2096.6	2046.1	2119.4	2128.7	2069.0	1986.4	1885.5	1807.5	1802.9
35°	6803.4	3546.2	1991.0	1986.4	2000.2	2004.8	1945.1	1844.2	1802.9	1738.7	1761.6
37.5°	7317.2	3518.6	1917.6	1899.2	1894.7	1899.2	1830.4	1734.1	1812.1	1807.5	1816.7
40°	7973.2	3642.5	1812.1	1789.2	1793.8	1793.8	1706.5	1679.1	1816.7	1830.4	1835.0
42.5°	8638.4	3798.5	1743.3	1669.9	1688.2	1688.2	1642.3	1610.2	1706.5	1614.9	1601.1
45°	9216.5	4027.9	1669.9	1550.6	1596.5	1619.4	1605.6	1550.6	1491.0	1335.0	1335.0
47.5°	9404.5	4229.8	1582.7	1435.9	1472.6	1573.5	1532.3	1417.5	1312.1	1183.6	1174.4
50°	9734.9	4449.9	1513.9	1302.9	1380.9	1504.7	1463.4	1348.7	1229.5	1137.7	1142.3
52.5°	10074.3	4702.3	1385.4	1146.9	1243.2	1449.6	1449.6	1321.2	1137.7	1073.5	1064.3
55°	10583.6	4693.1	1156.1	940.5	1110.2	1367.1	1390.1	1183.6	1018.4	967.9	967.9
56°	10656.9	4482.0	1041.4	880.8	1050.6	1344.2	1348.7	1146.9	972.6	917.5	917.5
57.5°	10106.4	4046.2	912.9	807.4	977.2	1302.9	1307.5	1114.8	935.8	857.9	848.7
60°	7776.0	2738.8	761.5	720.3	885.4	1174.4	1197.4	1013.8	821.2	761.5	756.9
62.5°	4390.3	1518.5	669.8	651.5	761.5	1000.1	1068.9	885.4	697.3	665.2	674.4
65°	2004.8	834.9	564.3	527.6	614.7	770.7	862.5	729.4	573.5	536.7	536.7
67.5°	734.0	568.8	481.7	417.5	431.2	500.0	559.7	472.5	380.8	325.7	339.5
70°	523.0	477.1	422.0	362.5	334.9	325.7	321.1	266.1	188.1	146.8	156.0
72.5°	422.0	394.6	353.2	307.4	261.5	220.2	188.1	137.7	87.1	59.7	55.0
75°	302.8	289.0	256.9	220.2	183.5	156.0	128.5	87.1	45.9	22.9	22.9
77.5°	156.0	156.0	151.4	137.7	114.7	91.8	73.4	50.4	27.6	9.2	9.2
80°	119.3	128.5	133.0	119.3	105.5	82.6	59.7	36.7	18.3	4.6	4.6
82.5°	114.7	133.0	142.2	123.9	105.5	78.0	59.7	36.7	18.3	4.6	4.6
85°	27.6	27.6	41.3	45.9	59.7	64.2	50.4	32.1	13.8	4.6	4.6
87.5°	9.2	9.2	9.2	9.2	9.2	9.2	4.6	4.6	4.6	4.6	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)