

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: P382677

Luminaire Tested: **GLEON-SA0C-735-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382677  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0C-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 66681.1 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5

Input Watts (W): 558  
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

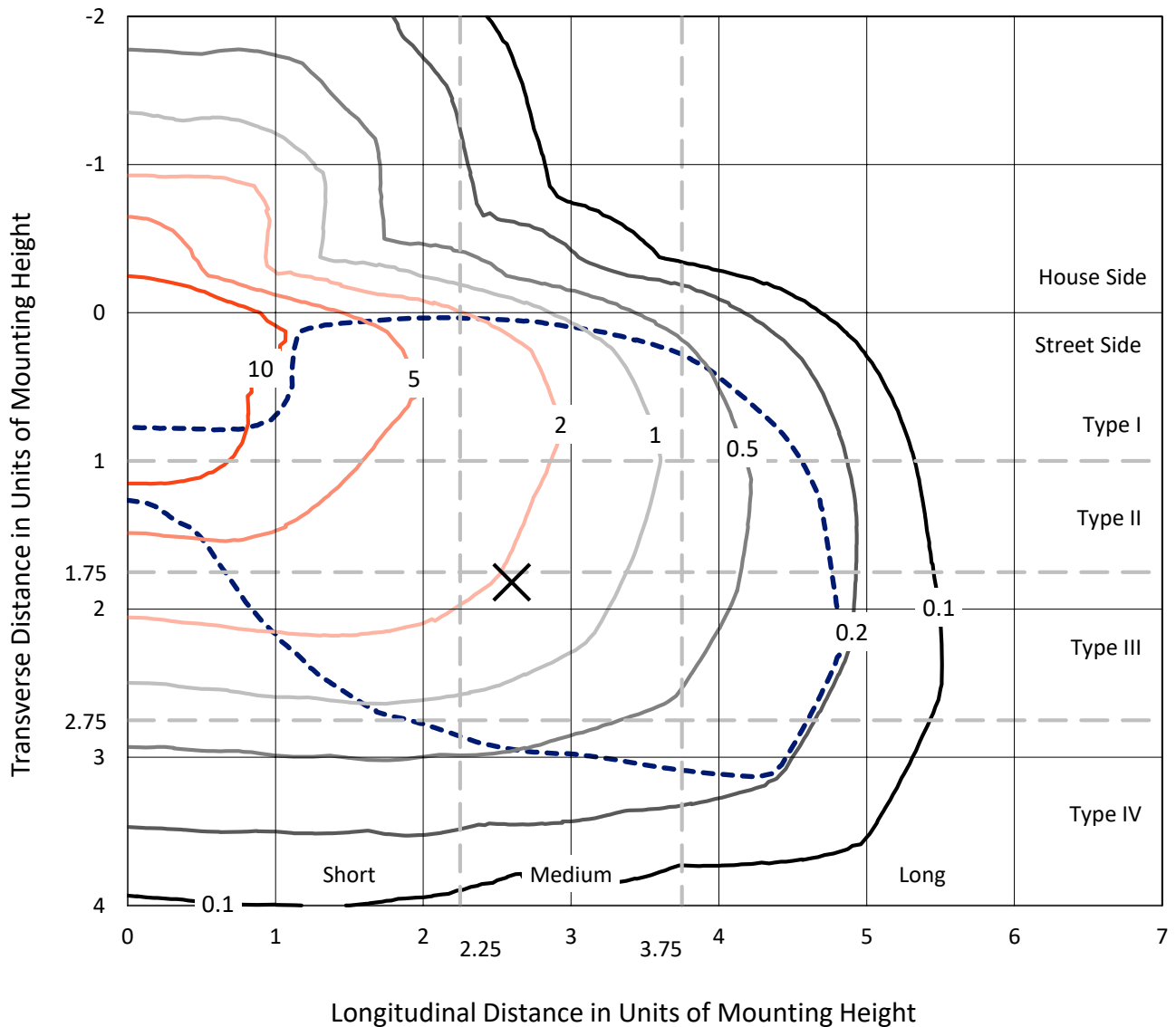




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### Iso-Footcandle Lines of Horizontal Illumination

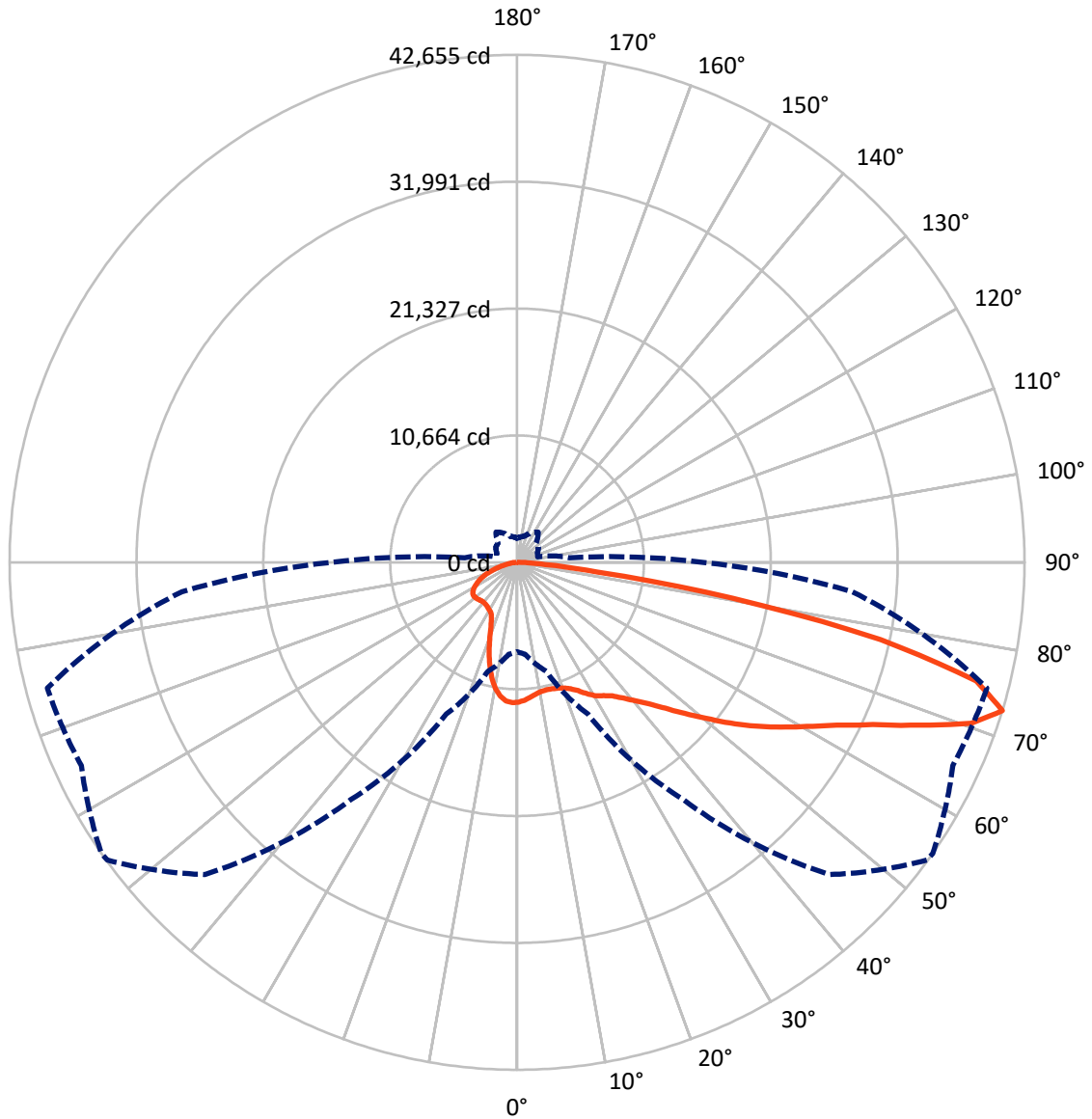
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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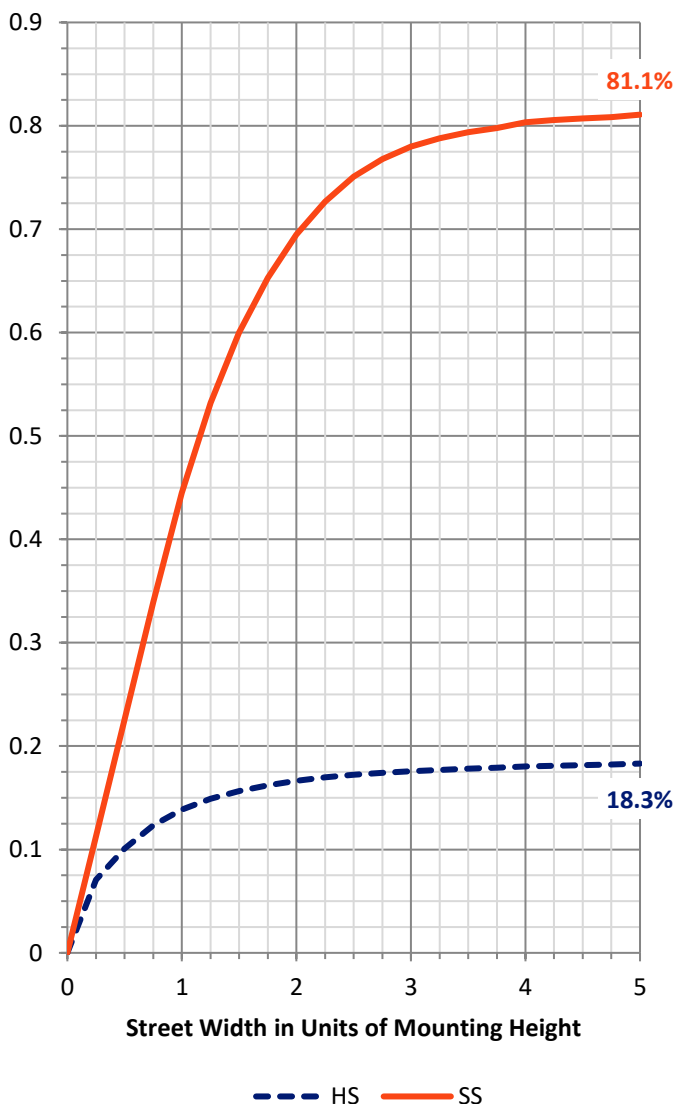
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12393.8	0.0	12393.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	54287.3	0.0	54287.3
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	66681.1	0.0	66681.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1064.2	1.6
10°-20°	2833.4	4.2
20°-30°	4671.6	7.0
30°-40°	6910.4	10.4
40°-50°	9645.5	14.5
50°-60°	12558.8	18.8
60°-70°	15434.4	23.1
70°-80°	12098.7	18.1
80°-90°	1464.1	2.2
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°	66681.1	100.0
0°-180°	66681.1	100.0

**Coefficient of Utilization**

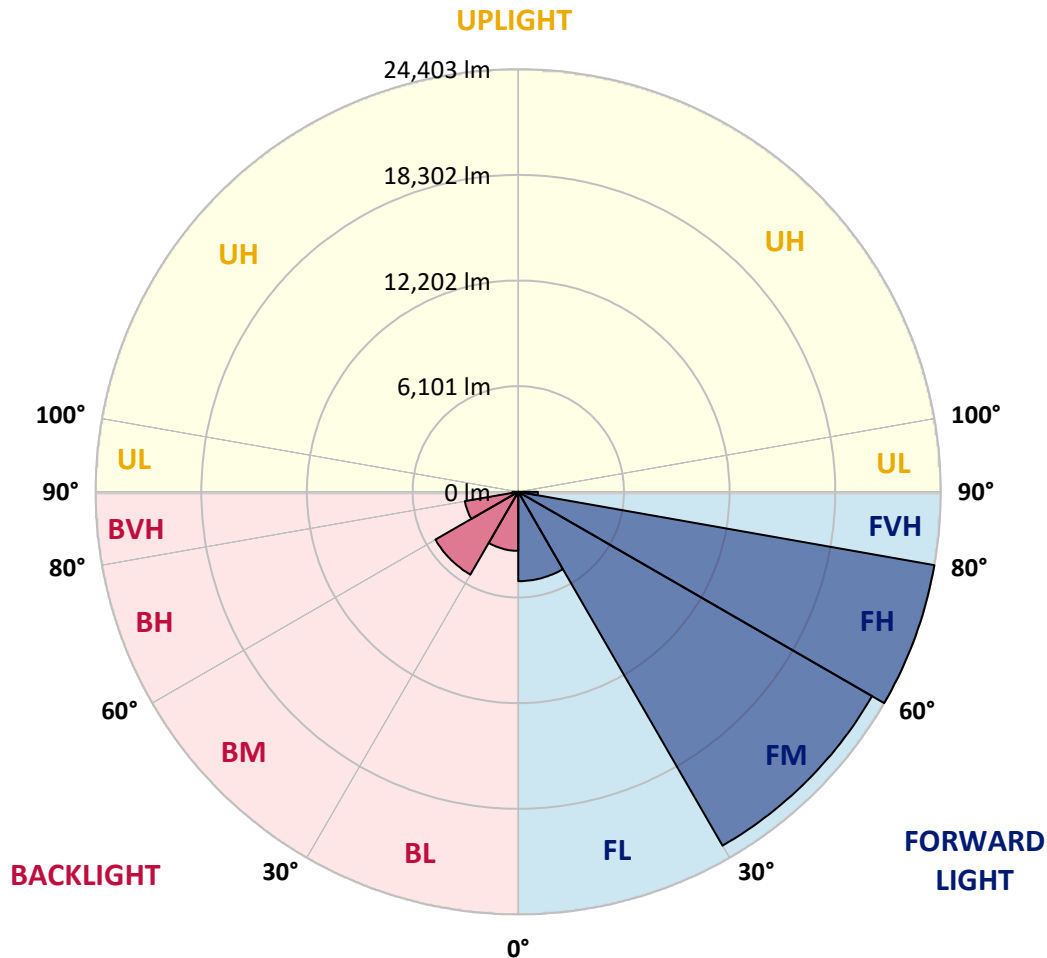


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5159.2	7.7			
FM (30°-60°)	23593.1	35.4			
FH (60°-80°)	24403.0	36.6			G5
FVH (80°-90°)	1132.0	1.7			G5
BL (0°-30°)	3410.1	5.1	B4/5000		
BM (30°-60°)	5521.6	8.3	B4/8500		
BH (60°-80°)	3130.0	4.7	B4/5000		G4/5000
BVH (80°-90°)	332.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11761.1	11761.1	11761.1	11761.1	11761.1	11761.1	11761.1	11761.1	11761.1	11761.1	11761.1
2.5°	11378.2	11351.2	11385.0	11432.3	11484.1	11553.9	11594.4	11612.5	11682.3	11709.3	11767.9
5°	10851.2	10837.7	10894.0	10975.1	11090.0	11252.1	11382.8	11407.5	11592.2	11722.8	11842.2
7.5°	10468.4	10468.4	10533.7	10630.5	10758.9	10977.4	11162.0	11195.8	11508.9	11790.4	12011.1
10°	10164.3	10175.6	10252.1	10367.0	10517.9	10749.9	10995.3	11033.6	11486.4	11948.0	12299.4
12.5°	9961.6	9988.6	10058.4	10162.1	10348.9	10630.5	10941.3	10993.1	11533.7	12173.3	12646.2
15°	10090.0	10135.1	10141.8	10184.5	10288.2	10594.5	10972.8	11026.9	11635.0	12403.0	13040.4
17.5°	10653.0	10668.8	10599.0	10508.9	10459.3	10655.2	11067.4	11123.7	11756.6	12630.5	13418.8
20°	11508.9	11499.9	11349.0	11105.7	10853.5	10885.0	11222.8	11281.4	11921.0	12831.0	13797.2
22.5°	12590.0	12558.4	12326.4	11878.3	11448.1	11267.9	11495.4	11544.9	12168.8	13116.9	14202.6
25°	13900.7	13830.9	13524.6	12923.3	12290.4	11826.5	11905.3	11952.6	12529.1	13436.7	14574.2
27.5°	15283.6	15213.8	14824.2	14096.6	13254.3	12531.4	12470.5	12511.1	12939.0	13673.3	14848.9
30°	16729.5	16655.2	16299.4	15484.0	14276.8	13261.1	12997.6	13013.3	13227.3	13801.6	15074.1
32.5°	18182.2	18112.4	17713.8	16767.8	15387.2	14044.9	13378.2	13357.9	13400.8	13934.6	15328.6
35°	19655.2	19682.2	19216.0	18168.7	16616.9	14916.5	13828.6	13785.9	13691.2	14207.0	15689.0
37.5°	21231.7	21213.7	20610.1	19515.5	17902.9	15862.4	14475.0	14468.3	14141.7	14722.8	16254.3
40°	22285.8	22297.1	21929.9	20893.9	19202.5	16909.7	15303.8	15288.1	14860.1	15495.3	16995.2
42.5°	22697.9	22772.2	22866.8	22209.2	20562.8	18123.6	16292.6	16270.0	15862.4	16603.4	17866.9
45°	22727.2	22875.8	23461.4	23378.1	21941.2	19513.3	17556.0	17493.1	17200.2	18076.3	18907.4
47.5°	22475.0	22628.1	23601.0	24074.0	23173.1	20979.5	19033.6	18984.0	18731.7	19918.6	20033.5
50°	21923.1	22069.6	23312.7	24414.1	24186.6	22389.4	20736.2	20605.6	20470.5	22047.0	21321.8
52.5°	20889.4	21170.9	22927.6	24495.2	24792.5	23641.6	22526.8	22441.2	22515.5	24292.5	22612.3
55°	18441.2	18756.5	21934.4	24427.6	25240.7	24693.4	24317.3	24312.7	24697.8	26648.3	23997.4
57.5°	17069.6	17292.6	19911.9	24312.7	25772.2	25738.4	26089.8	26132.5	26882.5	29213.6	25447.8
60°	16294.8	16529.1	18887.1	23887.1	26596.5	27089.8	27898.3	27983.9	29103.2	32053.6	27193.4
62.5°	15589.9	15846.6	18252.0	23019.9	27567.2	29022.2	30065.0	30141.5	31454.5	34972.5	28880.3
65°	14385.0	14675.5	17321.8	22450.2	28450.1	31542.4	32819.4	32871.2	34155.0	38031.1	30170.8
67.5°	12682.3	12948.0	15567.4	21191.2	29103.2	34603.2	36481.5	36510.8	36832.8	40191.0	30830.7
70°	10693.5	10794.9	13067.4	18592.1	28330.7	37465.7	40495.0	40501.7	39274.2	41573.8	30722.6
72.5°	7513.4	7752.2	9486.3	14074.1	24346.6	37116.7	42578.2	42654.9	40409.4	40875.7	28267.6
75°	4608.1	4860.3	5950.4	8529.2	15445.7	29191.1	39339.6	39871.1	38281.0	36445.5	23092.0
77.5°	3081.0	3175.6	3882.9	4972.9	6997.7	16794.9	30245.1	31245.1	31801.4	26578.5	14767.8
80°	1718.4	1898.6	2574.3	3090.0	3112.6	6673.3	18134.9	18369.1	17693.4	10583.2	4556.3
82.5°	909.9	1009.0	1718.4	1815.3	1698.2	2234.2	6758.9	6765.6	5653.1	2837.8	1353.6
85°	704.9	788.3	1177.9	1108.1	867.1	991.0	2229.7	2351.3	1923.4	1162.1	441.5
87.5°	351.4	436.9	799.5	702.7	340.1	283.7	797.3	851.3	759.0	455.0	159.9
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°	11761.1	11761.1	11761.1	11761.1	11761.1	11761.1	11761.1	11761.1	11761.1	11761.1	11761.1
2.5°	11790.4	11810.6	11835.4	11808.4	11799.4	11763.4	11702.6	11689.1	11657.5	11659.8	11677.8
5°	11894.0	11927.8	11914.3	11810.6	11686.8	11513.4	11333.2	11180.1	11078.7	11071.9	11065.2
7.5°	12092.2	12114.7	12008.9	11713.8	11366.9	10966.1	10587.7	10256.6	10056.1	10006.6	9995.4
10°	12403.0	12398.5	12108.0	11513.4	10822.0	10105.7	9497.6	9038.2	8770.1	8691.3	8671.0
12.5°	12749.8	12698.0	12141.7	11148.5	10051.7	9058.5	8288.2	7776.9	7497.7	7407.6	7385.0
15°	13107.9	12979.5	12058.4	10603.4	9105.8	7930.1	7121.5	6648.5	6497.6	6448.1	6439.1
17.5°	13441.3	13193.5	11819.7	9864.7	8027.0	6806.3	6175.6	5986.4	6022.5	6087.8	6090.0
20°	13767.8	13337.7	11436.8	8932.3	6889.5	5880.6	5666.6	5806.2	5977.4	6110.3	6128.3
22.5°	14089.9	13439.1	10943.5	7855.7	5871.5	5360.3	5511.2	5765.7	5961.6	6105.7	6130.5
25°	14360.2	13463.8	10263.4	6707.1	5164.3	5164.3	5436.9	5677.9	5871.5	6013.4	6038.2
27.5°	14459.3	13297.1	9303.9	5644.1	4808.5	5074.2	5333.3	5533.7	5698.1	5849.0	5876.0
30°	14497.6	12988.6	8195.8	4790.5	4662.1	4977.4	5193.7	5364.8	5520.2	5662.1	5686.8
32.5°	14504.3	12617.0	7020.1	4306.3	4560.8	4876.1	5020.2	5171.1	5337.8	5394.0	5403.1
35°	14547.1	12177.7	5781.5	4058.5	4466.1	4781.4	4896.3	5004.5	4734.2	4754.4	4772.5
37.5°	14670.9	11743.1	4745.4	3918.8	4405.4	4731.9	4869.3	4477.4	4265.7	4216.2	4209.4
40°	14903.0	11279.2	3977.4	3806.3	4382.8	4756.7	4695.9	4180.1	3815.2	3542.8	3502.2
42.5°	15225.0	10779.1	3486.4	3732.0	4398.6	4876.1	4454.9	3894.1	3288.3	3112.6	3090.0
45°	15587.7	10254.4	3220.6	3680.2	4452.6	4968.4	4405.4	3513.4	3042.7	2909.9	2898.6
47.5°	15939.0	9612.5	3083.3	3657.6	4526.9	4894.1	4195.9	3396.3	2925.6	2855.8	2862.6
50°	16342.1	9033.7	3000.0	3632.8	4592.3	4846.7	3959.4	3335.5	2880.6	2966.1	3056.2
52.5°	16682.2	8434.6	2925.6	3583.3	4617.0	4763.5	3898.6	3346.8	2880.6	3045.0	3130.6
55°	17085.3	7981.9	2840.0	3479.7	4569.8	4526.9	3855.8	3414.4	2914.3	2810.8	2819.8
57.5°	17605.6	7833.2	2745.5	3317.5	4412.1	4182.4	3835.6	3479.7	2894.1	2828.8	2851.3
60°	18326.3	7990.9	2707.2	3105.8	4166.6	3912.1	3837.8	3445.9	2752.3	2639.6	2641.9
62.5°	19013.3	8166.6	2704.9	2972.9	3864.8	3671.1	3786.0	3335.5	2680.2	2614.9	2639.6
65°	19238.5	7988.7	2596.8	2824.3	3524.7	3382.8	3691.4	3218.4	2626.1	2527.0	2522.4
67.5°	18936.7	7436.8	2378.3	2583.3	3135.1	3047.3	3567.5	3078.8	2540.5	2459.5	2445.9
70°	18040.4	6204.9	2108.1	2265.7	2691.4	2668.9	3371.6	2916.7	2425.7	2355.8	2297.3
72.5°	15628.2	4421.1	1777.0	1885.1	2191.4	2263.5	3101.3	2704.9	2263.5	2112.6	2022.5
75°	12835.4	3272.5	1459.5	1482.0	1664.4	1860.3	2729.7	2457.1	2072.0	1815.3	1745.4
77.5°	7860.3	2002.3	1162.1	1171.1	1193.7	1484.2	2247.7	2180.2	1828.8	1513.5	1463.9
80°	2545.0	1092.3	840.1	882.8	815.3	1087.9	1738.7	1855.8	1569.8	1265.8	1211.7
82.5°	968.4	637.4	567.6	596.8	565.3	729.7	1268.0	1486.5	1286.0	1040.5	846.9
85°	468.5	360.3	335.5	376.2	349.1	373.8	810.8	1094.6	975.2	677.9	630.7
87.5°	166.7	159.9	128.4	173.5	148.7	132.8	247.7	551.8	644.2	466.2	416.7
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)