

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: P383687

Luminaire Tested: **GLEON-SA9C-735-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383687  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA9C-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 59258.5 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

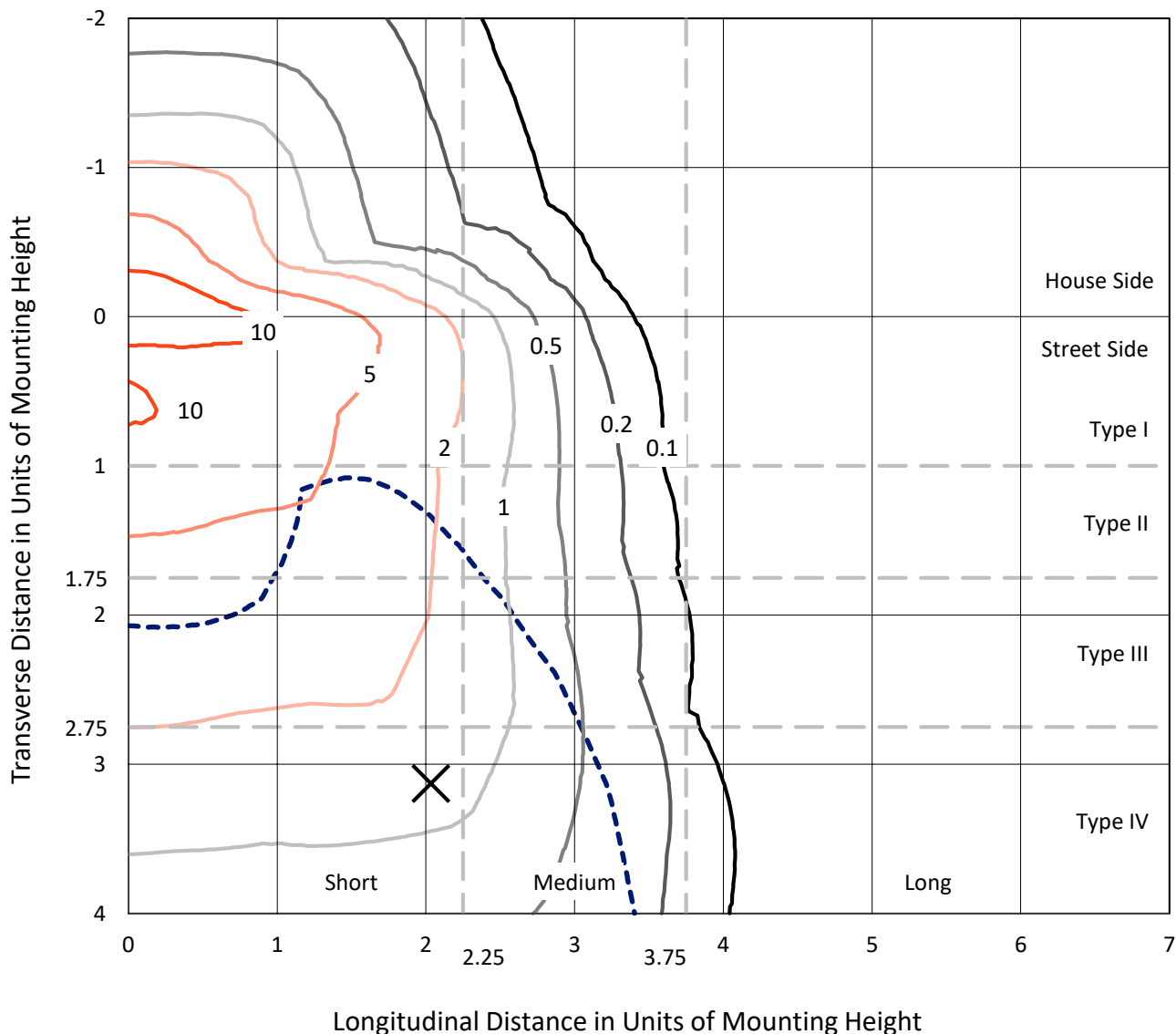
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

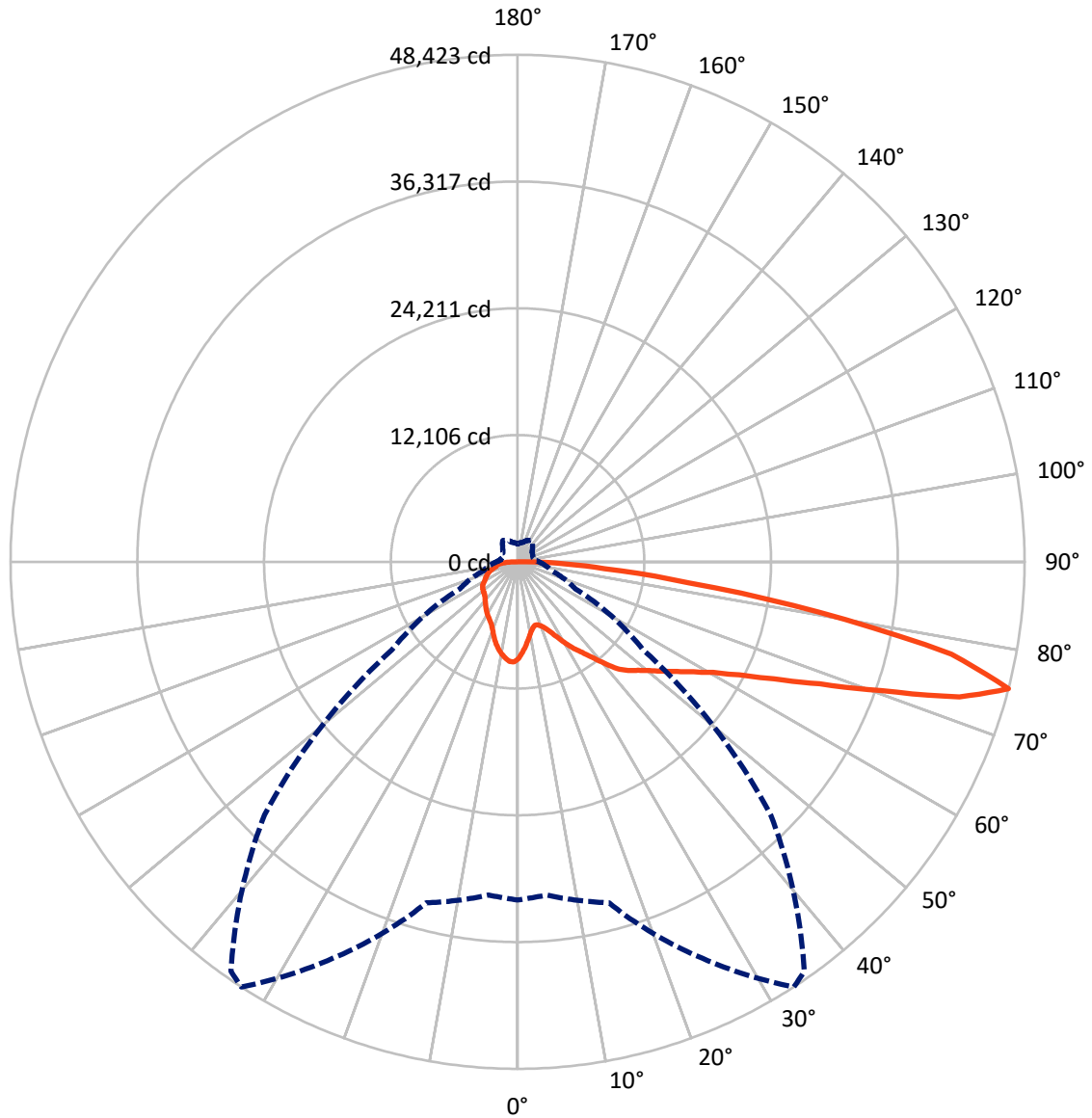
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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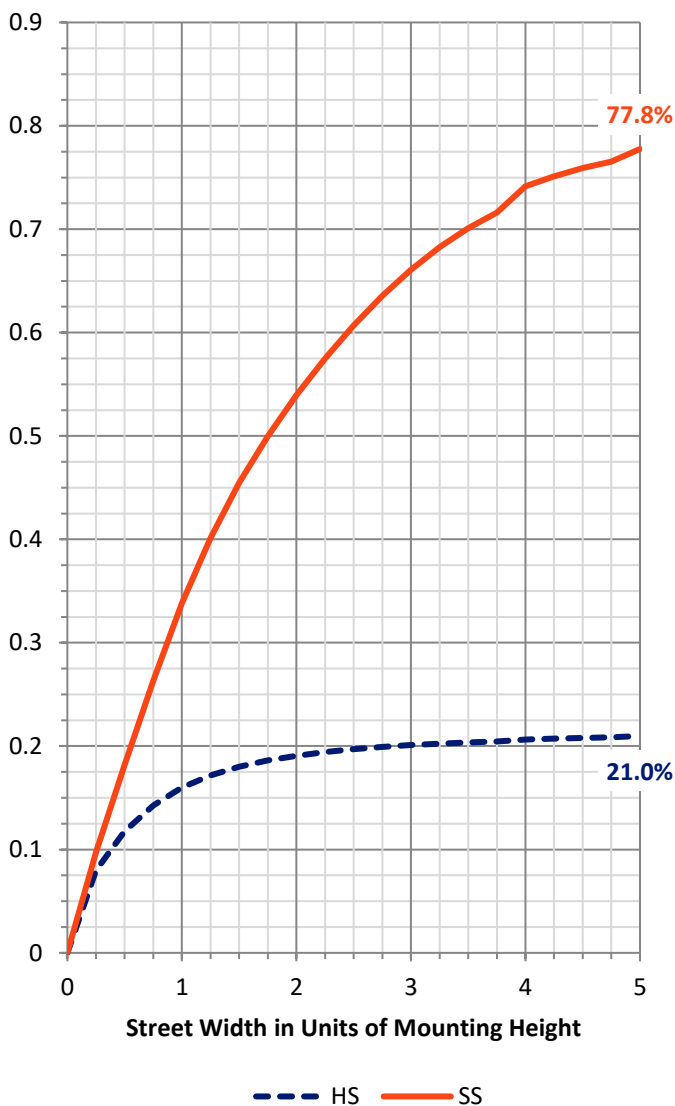
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12724.4	0.0	12724.4
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	46534.2	0.0	46534.2
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	59258.5	0.0	59258.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	837.7	1.4
10°-20°	2268.8	3.8
20°-30°	3705.2	6.3
30°-40°	5518.0	9.3
40°-50°	7914.2	13.4
50°-60°	10865.0	18.3
60°-70°	13602.5	23.0
70°-80°	12305.6	20.8
80°-90°	2241.5	3.8
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°	59258.5	100.0
0°-180°	59258.5	100.0

**Coefficient of Utilization**

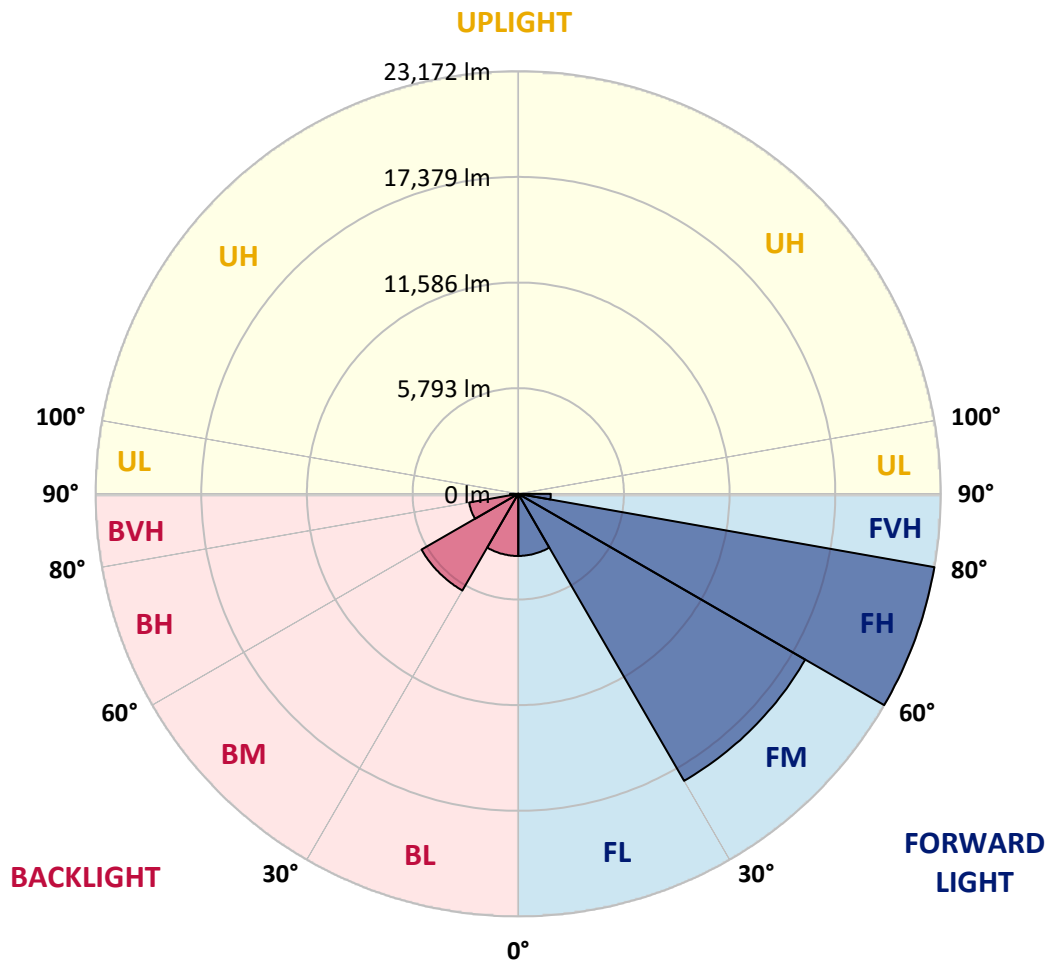


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3403.5	5.7			
FM (30°-60°)	18173.4	30.7			
FH (60°-80°)	23172.1	39.1			G5
FVH (80°-90°)	1785.2	3.0			G5
BL (0°-30°)	3408.2	5.8	B4/5000		
BM (30°-60°)	6123.9	10.3	B4/8500		
BH (60°-80°)	2736.0	4.6	B4/5000		G4/5000
BVH (80°-90°)	456.3	0.8			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	9262.5	9262.5	9262.5	9262.5	9262.5	9262.5	9262.5	9262.5	9262.5	9262.5	9262.5
2.5°	8601.3	8568.6	8630.0	8638.1	8691.3	8711.8	8785.5	8900.1	8994.3	9102.8	9201.0
5°	7821.4	7798.9	7884.8	7946.3	8062.9	8112.1	8286.0	8529.6	8746.6	8992.2	9215.3
7.5°	7080.4	7068.1	7164.3	7303.5	7438.6	7506.1	7807.0	8161.2	8523.5	8920.6	9262.5
10°	6456.1	6452.0	6544.1	6681.2	6879.8	6955.5	7344.4	7811.1	8318.8	8865.4	9342.3
12.5°	6106.0	6120.4	6163.4	6278.0	6462.2	6538.0	6969.8	7518.4	8146.8	8846.9	9458.9
15°	6192.0	6214.5	6140.9	6136.8	6267.7	6327.1	6732.4	7309.7	8024.1	8877.6	9628.8
17.5°	6558.5	6562.5	6368.1	6245.3	6325.1	6355.8	6658.7	7190.9	7952.4	8947.2	9841.7
20°	7074.3	7064.0	6720.1	6515.4	6558.5	6566.6	6763.1	7192.9	7946.3	9068.0	10118.1
22.5°	7757.9	7682.2	7219.6	6941.2	6931.0	6918.7	7031.2	7344.4	8036.3	9264.5	10447.6
25°	8650.4	8578.7	7942.2	7561.5	7479.6	7448.8	7465.2	7667.8	8214.4	9475.3	10816.1
27.5°	9643.2	9518.3	8904.2	8365.9	8195.9	8153.0	8054.7	8124.3	8408.9	9677.9	11254.1
30°	10474.2	10406.7	9870.4	9231.7	9031.2	8969.7	8711.8	8636.1	8689.3	9954.3	11806.8
32.5°	10938.9	10893.9	10568.4	10052.6	9866.3	9780.3	9416.0	9264.5	9139.6	10390.3	12556.0
35°	11501.8	11473.1	11276.7	10902.1	10625.7	10535.6	10253.2	10095.6	9774.2	10990.0	13524.2
37.5°	12218.3	12187.5	12191.6	11888.7	11559.1	11475.2	11289.0	11123.1	10597.0	11778.1	14576.3
40°	13028.8	12969.5	12946.9	12932.6	12723.8	12676.8	12578.5	12353.3	11628.7	12719.7	15614.1
42.5°	14248.8	14038.0	13587.6	13757.6	13964.3	13939.7	14019.5	13696.2	12775.0	13833.3	16627.4
45°	15425.8	15079.9	14302.1	14338.8	14791.2	14928.4	15526.1	15296.8	14017.5	15053.3	17675.4
47.5°	15962.1	15700.1	15038.9	15041.0	15489.2	15773.8	17083.8	16920.1	15323.5	16439.0	18954.8
50°	16561.9	16299.8	15706.3	15929.4	16320.3	16623.3	18588.4	18504.4	16566.0	17955.9	20487.9
52.5°	17216.9	16772.7	16396.1	16795.2	17343.8	17695.9	20094.9	19865.6	17706.1	19482.9	22250.3
55°	17225.1	17104.3	17390.9	17683.6	18504.4	18936.3	21673.1	21067.2	18635.4	20983.3	23685.2
57.5°	18205.5	18009.1	18617.0	18752.1	19824.7	20311.8	23243.1	22113.2	19581.1	22133.7	24459.0
60°	19503.3	19335.5	19832.9	20189.1	21458.2	22109.1	24919.6	23187.8	20324.1	23001.6	24422.1
62.5°	21744.7	21554.3	21548.2	22047.7	23756.9	24514.2	26800.7	24242.0	20618.9	23173.5	23380.3
65°	25026.0	24723.1	24152.0	24389.4	26931.7	27687.0	28902.9	25005.5	20230.0	22252.3	20696.7
67.5°	28219.2	28209.0	27506.9	27994.0	31123.8	31729.7	31297.9	25081.3	19016.1	19044.8	15935.5
70°	31402.2	31443.2	31324.4	33019.4	36787.7	37418.2	33848.3	24063.9	16287.6	13753.5	9547.0
72.5°	33924.1	33913.8	34511.5	38881.8	44138.3	43997.1	35997.6	20981.2	11694.2	7424.2	4562.6
75°	32290.6	31934.5	33715.3	41784.4	48422.6	47732.8	34169.7	14635.6	6069.2	3379.5	2456.3
77.5°	21061.1	21398.8	24012.8	34517.7	42355.4	41516.2	25069.0	6828.6	2859.6	2216.8	1780.8
80°	7627.0	7983.1	11243.9	19552.4	29181.3	29044.2	12345.1	2806.4	1934.4	1674.4	1297.7
82.5°	2624.2	2755.2	4435.8	8683.1	16475.9	17090.0	4644.5	1594.5	1406.3	1187.3	888.4
85°	1029.6	1179.1	2028.5	4177.8	8310.6	8372.0	1881.2	953.9	978.4	777.8	487.2
87.5°	391.0	474.9	970.3	1940.5	3795.0	3485.9	673.4	454.4	556.8	462.6	231.3
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°	9262.5	9262.5	9262.5	9262.5	9262.5	9262.5	9262.5	9262.5	9262.5	9262.5	9262.5
2.5°	9276.8	9319.8	9409.8	9471.2	9536.7	9555.2	9563.4	9579.8	9596.1	9589.9	9592.0
5°	9334.1	9418.0	9563.4	9624.7	9653.4	9620.7	9557.2	9506.1	9469.2	9448.7	9442.5
7.5°	9428.3	9547.0	9702.5	9692.3	9626.8	9481.5	9317.7	9194.9	9092.6	9055.7	9035.3
10°	9553.1	9692.3	9800.8	9684.1	9493.8	9242.0	8996.3	8806.0	8652.5	8593.1	8582.8
12.5°	9712.8	9854.0	9874.5	9626.8	9311.6	8967.6	8634.0	8382.3	8153.0	8079.3	8062.9
15°	9919.5	10052.6	9925.6	9526.5	9086.4	8623.8	8191.8	7850.1	7608.5	7518.4	7485.7
17.5°	10136.4	10263.4	9935.9	9360.7	8791.7	8216.4	7674.0	7324.0	7047.6	6943.3	6931.0
20°	10396.4	10453.7	9892.9	9123.2	8386.4	7688.3	7117.2	6787.7	6640.3	6566.6	6558.5
22.5°	10717.8	10656.4	9794.7	8801.9	7872.6	7078.4	6613.7	6460.2	6423.3	6406.9	6413.1
25°	11057.7	10869.3	9649.3	8382.3	7223.7	6468.4	6245.3	6288.2	6337.3	6331.2	6331.2
27.5°	11432.2	11086.3	9426.2	7825.5	6505.2	5968.9	5995.5	6153.2	6226.8	6224.8	6222.7
30°	11913.3	11331.9	9141.6	7156.1	5833.8	5616.9	5778.6	5970.9	6071.3	6067.2	6069.2
32.5°	12504.8	11602.1	8754.8	6409.0	5348.7	5356.9	5543.2	5733.5	5850.2	5840.0	5842.0
35°	13196.7	11905.1	8230.8	5672.1	5027.3	5150.2	5297.5	5430.5	5541.1	5526.8	5512.4
37.5°	13949.9	12201.9	7534.8	5012.9	4765.3	4957.7	5080.6	5103.0	5154.3	5117.4	5090.7
40°	14666.4	12429.1	6638.2	4472.5	4501.2	4793.9	4873.8	4783.7	4691.6	4679.3	4642.5
42.5°	15290.7	12504.8	5731.4	4040.7	4222.9	4622.0	4671.2	4482.8	4317.0	4239.2	4206.5
45°	15949.9	12531.5	4886.1	3678.4	3954.7	4468.4	4521.7	4269.9	4036.6	3868.7	3813.5
47.5°	16811.5	12723.8	4229.0	3410.2	3750.0	4366.2	4441.9	4100.0	3797.1	3557.6	3506.4
50°	17939.5	13104.5	3694.7	3205.5	3616.9	4298.6	4384.6	3934.2	3600.6	3311.9	3260.8
52.5°	19192.2	13454.6	3262.8	3039.7	3488.0	4179.9	4310.8	3815.5	3416.4	3084.7	3029.5
55°	20068.2	13186.4	2914.8	2867.8	3320.1	4009.9	4208.5	3715.2	3152.3	2863.7	2814.6
57.5°	20236.1	12269.4	2650.8	2689.7	3117.5	3797.1	4050.9	3492.1	3009.0	2767.4	2716.3
60°	19777.6	10992.1	2454.3	2525.9	2900.6	3529.0	3756.2	3334.5	2871.9	2665.2	2622.1
62.5°	18625.2	9684.1	2308.9	2378.5	2697.9	3256.7	3571.9	3168.7	2732.7	2548.4	2505.5
65°	16297.8	8130.5	2169.8	2247.5	2509.6	3021.3	3406.1	3015.1	2595.6	2454.3	2413.4
67.5°	12302.2	6089.7	2038.8	2108.4	2341.7	2816.6	3225.9	2863.7	2462.5	2372.4	2323.3
70°	7244.2	3813.5	1889.4	1963.1	2165.7	2603.7	3033.6	2697.9	2296.6	2255.7	2192.3
72.5°	3371.4	2294.6	1719.5	1791.1	1944.6	2319.2	2785.9	2480.9	2100.2	2010.1	1924.1
75°	2012.1	1678.5	1518.8	1582.3	1690.8	2016.2	2474.7	2259.8	1913.9	1795.2	1705.1
77.5°	1504.5	1283.4	1297.7	1365.3	1453.3	1764.4	2192.3	2085.8	1770.6	1678.5	1617.1
80°	1082.8	974.3	1058.2	1131.9	1224.1	1604.8	2100.2	1928.2	1600.7	1477.9	1420.6
82.5°	722.6	700.1	796.3	872.0	962.1	1404.2	1973.3	1688.7	1367.3	1211.8	1084.9
85°	399.2	421.7	536.3	569.1	646.9	988.7	1617.1	1357.2	1029.6	829.0	792.2
87.5°	165.8	194.4	288.6	278.3	343.9	589.5	1064.4	818.7	655.1	489.2	380.7
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)