

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: P652136

Luminaire Tested: **GALN-SA9A-840-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652136  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-840-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20820.6 lumens  
Efficiency: N/A  
Efficacy: 76.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

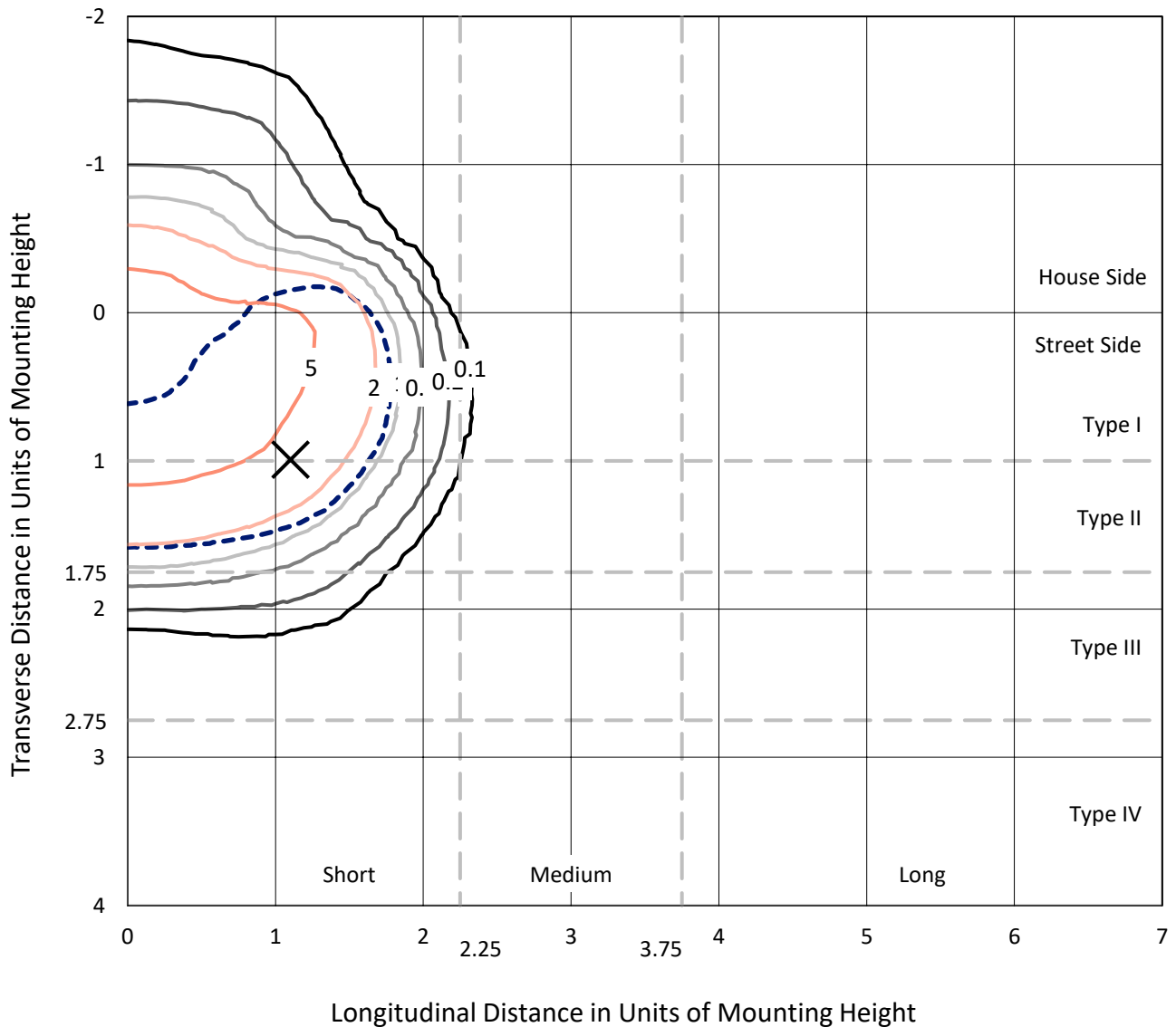
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

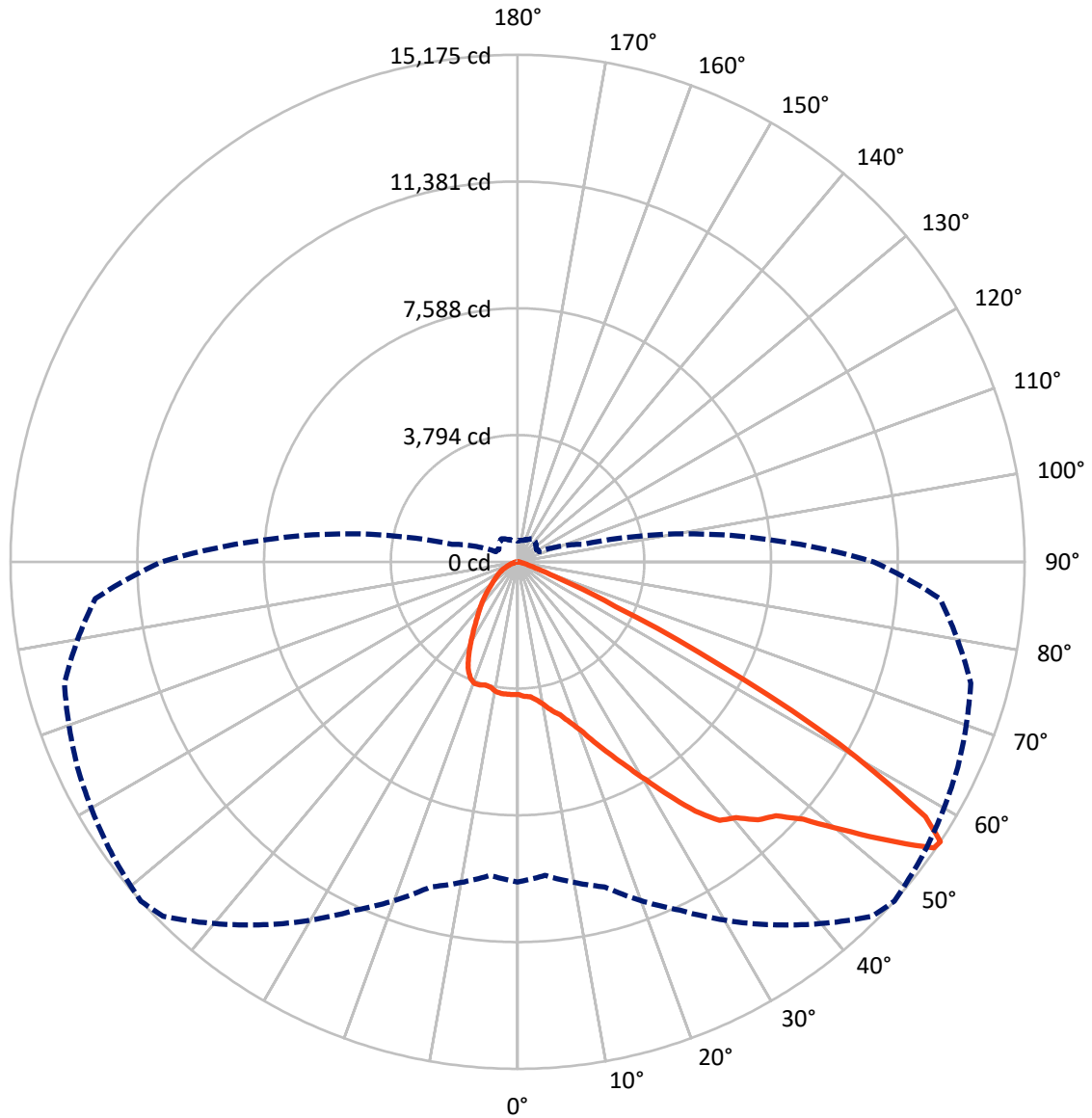
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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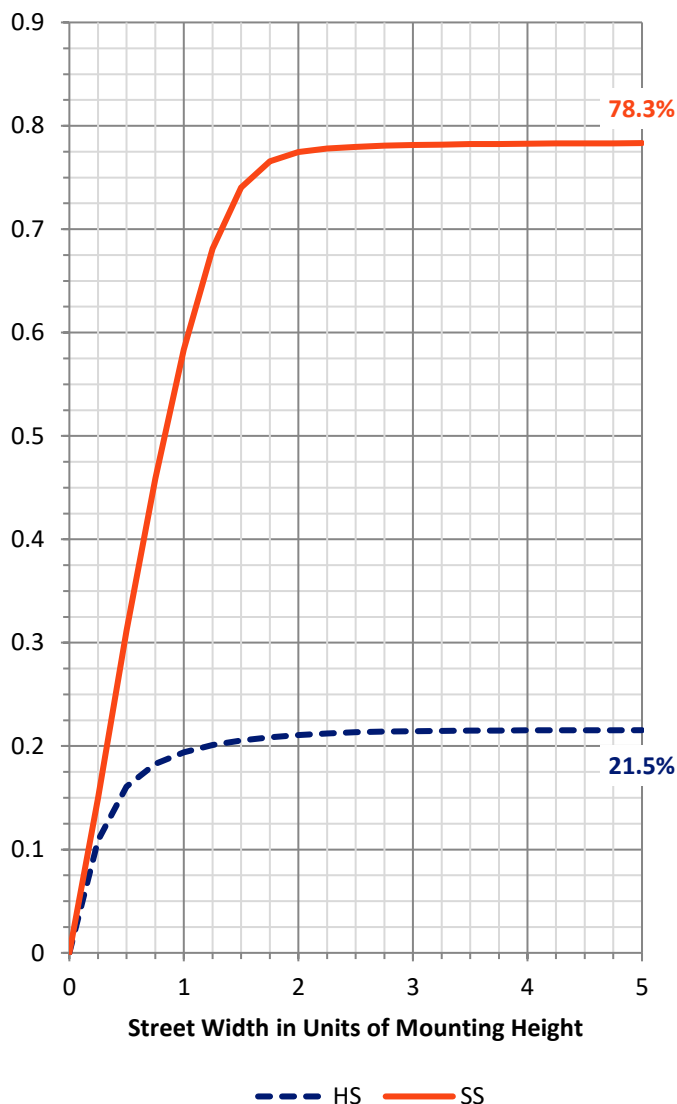
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4528.1	0.0	4528.1
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	16292.5	0.0	16292.5
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	20820.6	0.0	20820.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	387.4	1.9
10°-20°	1238.0	5.9
20°-30°	2245.5	10.8
30°-40°	3527.2	16.9
40°-50°	5145.5	24.7
50°-60°	6199.4	29.8
60°-70°	1815.1	8.7
70°-80°	230.3	1.1
80°-90°	32.3	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°	20820.6	100.0
0°-180°	20820.6	100.0

**Coefficient of Utilization**

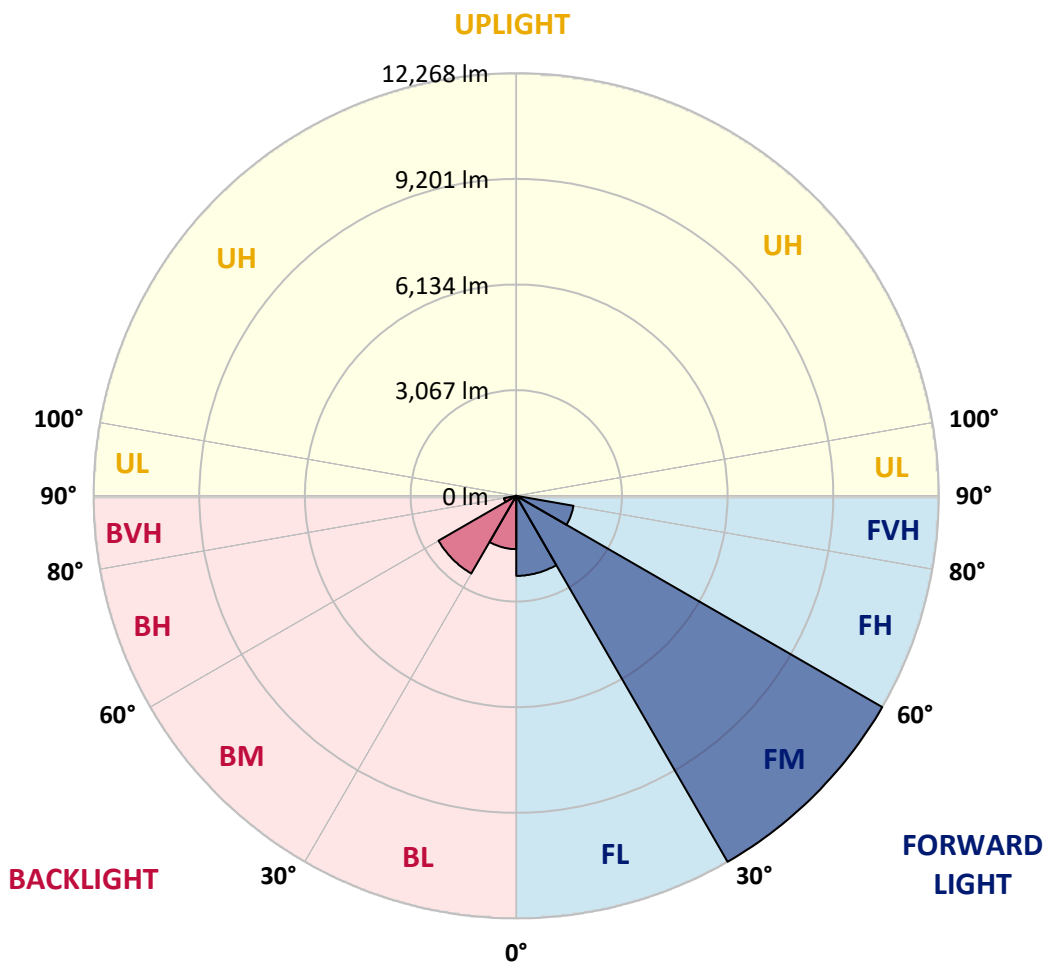


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2323.2	11.2			
FM (30°-60°)	12267.6	58.9			
FH (60°-80°)	1685.6	8.1			G1/1800
FVH (80°-90°)	16.2	0.1			G1/100
BL (0°-30°)	1547.7	7.4	B3/2500		
BM (30°-60°)	2604.5	12.5	B3/5000		
BH (60°-80°)	359.8	1.7	B1/500		G1/500
BVH (80°-90°)	16.1	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8
2.5°	4048.7	4029.8	4029.8	3999.5	4033.6	4018.5	4029.8	3991.9	4029.8	3973.0	4018.5
5°	4067.7	4071.5	4056.4	4075.3	4075.3	4098.0	4060.2	4094.2	4113.2	4071.5	4052.6
7.5°	4166.3	4173.9	4170.1	4155.0	4185.2	4181.5	4177.7	4151.2	4158.7	4143.5	4120.8
10°	4359.7	4355.9	4374.8	4336.9	4314.2	4340.7	4348.3	4306.6	4276.2	4264.9	4192.8
12.5°	4640.1	4594.7	4568.1	4530.2	4541.6	4503.7	4571.9	4499.9	4484.7	4416.5	4344.4
15°	4867.6	4860.1	4863.8	4803.2	4734.9	4750.1	4750.1	4712.2	4689.4	4606.1	4503.7
17.5°	5334.0	5174.7	5208.8	5133.0	5076.1	5072.3	5038.3	5045.8	4985.2	4810.8	4655.4
20°	5697.9	5629.7	5576.6	5447.7	5360.4	5387.0	5371.8	5334.0	5315.0	5087.5	4867.6
22.5°	6023.9	6046.6	5959.4	5925.3	5804.0	5815.3	5845.7	5811.6	5667.5	5432.5	5106.5
25°	6482.6	6456.0	6338.5	6296.8	6183.1	6224.8	6342.3	6315.8	6224.8	5800.2	5292.2
27.5°	7024.7	6933.7	6956.5	6766.9	6657.0	6774.5	6914.8	7047.5	6789.6	6232.4	5512.1
30°	7407.6	7312.8	7305.3	7297.7	7271.1	7407.6	7570.6	7692.0	7483.4	6664.6	5876.1
32.5°	7597.2	7619.9	7684.3	7661.6	7892.9	8173.3	8344.0	8518.3	8256.8	7369.7	6357.5
35°	8101.4	7957.3	8101.4	8116.5	8355.3	8950.5	9166.6	9583.6	9519.2	8366.7	6945.1
37.5°	8397.0	8385.7	8404.6	8548.7	8780.0	9515.4	9822.5	10144.7	10023.4	8965.7	7676.7
40°	8886.1	8916.5	8912.6	9022.6	9276.6	9939.9	10065.1	10326.6	10338.1	9795.9	8753.4
42.5°	9670.8	9549.5	9469.9	9583.6	9939.9	10307.7	10557.9	10504.8	10880.2	10804.3	10137.1
45°	10375.9	10448.0	10330.4	10520.0	10648.9	10846.0	10838.5	10952.2	11429.9	11790.0	11179.7
47.5°	11035.6	11081.1	11138.0	11266.8	11547.4	11577.7	11513.2	11463.9	12123.6	12495.1	11987.1
50°	11429.9	11471.6	11736.9	11968.2	12491.3	12559.6	12597.5	12472.4	12919.7	12961.4	12749.1
52.5°	11323.7	11369.2	11740.7	12502.7	13336.7	13962.2	13848.5	13636.2	13609.7	13772.6	13454.2
55°	10383.5	10341.9	10853.6	12040.2	13602.1	15103.4	15118.5	14894.8	14466.5	14356.5	13348.1
56°	9583.6	9420.6	10072.7	11505.6	13260.9	15004.8	15175.3	14936.5	14534.7	14041.8	12692.2
57.5°	7851.2	8006.6	8654.8	9841.4	12081.9	14295.8	14394.4	14337.5	14034.3	13207.8	11168.2
60°	4329.3	4602.3	5174.7	6626.7	8601.7	10971.1	11050.7	11513.2	11570.1	10114.4	7684.3
62.5°	1838.6	1808.3	2403.5	3472.6	4898.0	6622.9	6770.7	7244.6	7331.8	5830.6	3855.5
65°	746.8	788.5	1088.0	1747.7	2589.3	3017.6	3226.2	3381.6	3669.7	2407.3	1421.6
67.5°	492.8	489.0	640.7	997.0	1395.1	1345.8	1345.8	1421.6	1315.5	981.9	614.2
70°	352.5	363.9	458.7	690.0	868.2	644.5	618.0	591.4	671.0	648.2	496.6
72.5°	231.3	246.4	307.0	413.2	451.1	352.5	352.5	424.6	553.5	523.2	405.6
75°	151.6	155.4	189.6	238.8	223.7	182.0	200.9	284.3	401.8	386.7	288.1
77.5°	102.3	106.1	128.9	155.4	125.1	102.3	109.9	144.1	197.1	197.1	151.6
80°	37.9	41.7	53.1	49.3	56.9	72.0	79.6	98.6	117.5	117.5	102.3
82.5°	0.0	3.8	11.4	26.6	41.7	56.9	64.4	75.9	87.2	98.6	94.8
85°	0.0	3.8	11.4	18.9	30.4	34.1	37.9	26.6	22.7	22.7	18.9
87.5°	0.0	0.0	3.8	3.8	3.8	3.8	3.8	3.8	7.6	3.8	3.8
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°	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8
2.5°	3976.8	3973.0	3973.0	3961.6	3984.3	3973.0	3980.5	3976.8	3927.5	3965.4	3938.8
5°	4018.5	4045.0	4003.3	3995.7	3965.4	3976.8	3976.8	3938.8	3973.0	3969.2	3961.6
7.5°	4124.6	4079.1	4033.6	3988.1	3980.5	3969.2	3927.5	3912.3	3938.8	3908.5	3954.0
10°	4170.1	4177.7	4109.5	4048.7	3991.9	3912.3	3855.5	3821.3	3779.6	3825.1	3851.6
12.5°	4378.6	4302.8	4185.2	4090.5	3897.1	3817.6	3760.7	3745.5	3817.6	3832.7	3806.2
15°	4450.7	4439.2	4287.6	4075.3	3874.4	3779.6	3791.0	3760.7	3768.3	3730.3	3737.9
17.5°	4598.5	4469.6	4291.4	4026.0	3870.6	3847.8	3779.6	3658.3	3590.1	3559.7	3586.3
20°	4761.5	4636.3	4378.6	4045.0	3904.8	3844.0	3620.4	3472.6	3332.3	3256.4	3260.2
22.5°	4905.6	4750.1	4340.7	4052.6	3935.0	3684.8	3415.7	3123.8	2949.4	2831.9	2835.7
25°	5079.9	4860.1	4355.9	4067.7	3855.5	3430.9	3044.2	2759.8	2551.3	2471.7	2498.3
27.5°	5178.5	4928.3	4439.2	4101.9	3646.9	3070.7	2653.7	2388.4	2267.0	2229.1	2225.3
30°	5474.2	5079.9	4541.6	4033.6	3298.1	2684.1	2297.4	2134.3	2016.8	1982.7	1990.3
32.5°	5913.9	5356.7	4674.3	3855.5	2941.8	2339.1	2066.1	1944.8	1834.8	1770.4	1762.8
35°	6281.7	5830.6	4814.6	3578.7	2528.6	2073.7	1903.1	1751.5	1584.6	1512.6	1493.6
37.5°	6983.0	6365.1	4784.2	3161.7	2134.3	1876.5	1728.7	1542.9	1398.8	1300.3	1288.9
40°	7915.6	6990.6	4636.3	2653.7	1842.5	1702.2	1542.9	1364.8	1186.6	1103.1	1095.6
42.5°	9049.1	7756.4	4367.2	2138.2	1550.6	1527.8	1383.7	1179.0	1019.8	959.2	962.9
45°	9970.3	8412.2	4094.2	1717.3	1334.4	1357.2	1232.1	1038.7	928.8	879.5	879.5
47.5°	10789.2	8855.7	3798.5	1417.8	1133.5	1186.6	1076.6	962.9	868.2	830.2	822.7
50°	11577.7	9306.9	3502.8	1148.6	966.7	1019.8	1008.4	917.4	841.6	796.1	799.9
52.5°	12070.5	9378.9	3127.6	940.2	845.4	906.0	943.9	860.6	777.2	750.6	743.0
55°	11467.8	8450.1	2426.2	773.4	716.5	796.1	868.2	773.4	708.9	663.5	659.6
56°	10656.5	7555.5	2028.2	712.7	678.6	765.8	841.6	739.2	667.2	640.7	621.8
57.5°	9022.6	6183.1	1497.4	633.1	629.3	712.7	799.9	705.1	621.8	599.0	599.0
60°	5625.9	3480.1	906.0	530.8	545.9	633.1	720.3	629.3	553.5	553.5	564.9
62.5°	2562.7	1448.1	549.7	451.1	470.1	545.9	640.7	568.7	527.0	568.7	576.3
65°	871.9	625.5	398.0	360.1	371.6	451.1	549.7	576.3	572.5	599.0	614.2
67.5°	489.0	401.8	333.6	299.5	291.9	333.6	451.1	576.3	553.5	542.1	549.7
70°	413.2	341.2	295.7	265.3	254.0	269.1	348.8	436.0	390.5	379.1	371.6
72.5°	333.6	284.3	257.8	238.8	204.7	174.4	159.2	166.8	185.8	197.1	216.1
75°	235.1	216.1	216.1	193.3	147.8	109.9	87.2	72.0	49.3	34.1	37.9
77.5°	132.7	132.7	136.5	117.5	94.8	72.0	53.1	37.9	18.9	7.6	3.8
80°	91.0	98.6	106.1	94.8	79.6	64.4	45.5	26.6	11.4	0.0	0.0
82.5°	91.0	102.3	109.9	94.8	79.6	60.6	45.5	26.6	11.4	3.8	0.0
85°	18.9	22.7	26.6	30.4	45.5	45.5	34.1	22.7	11.4	3.8	0.0
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	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)