

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: P651138

Luminaire Tested: **GALN-SA9C-840-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651138  
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-SA9C-840-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1050mA 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: 31619.1 lumens  
Efficiency: N/A  
Efficacy: 65.7 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

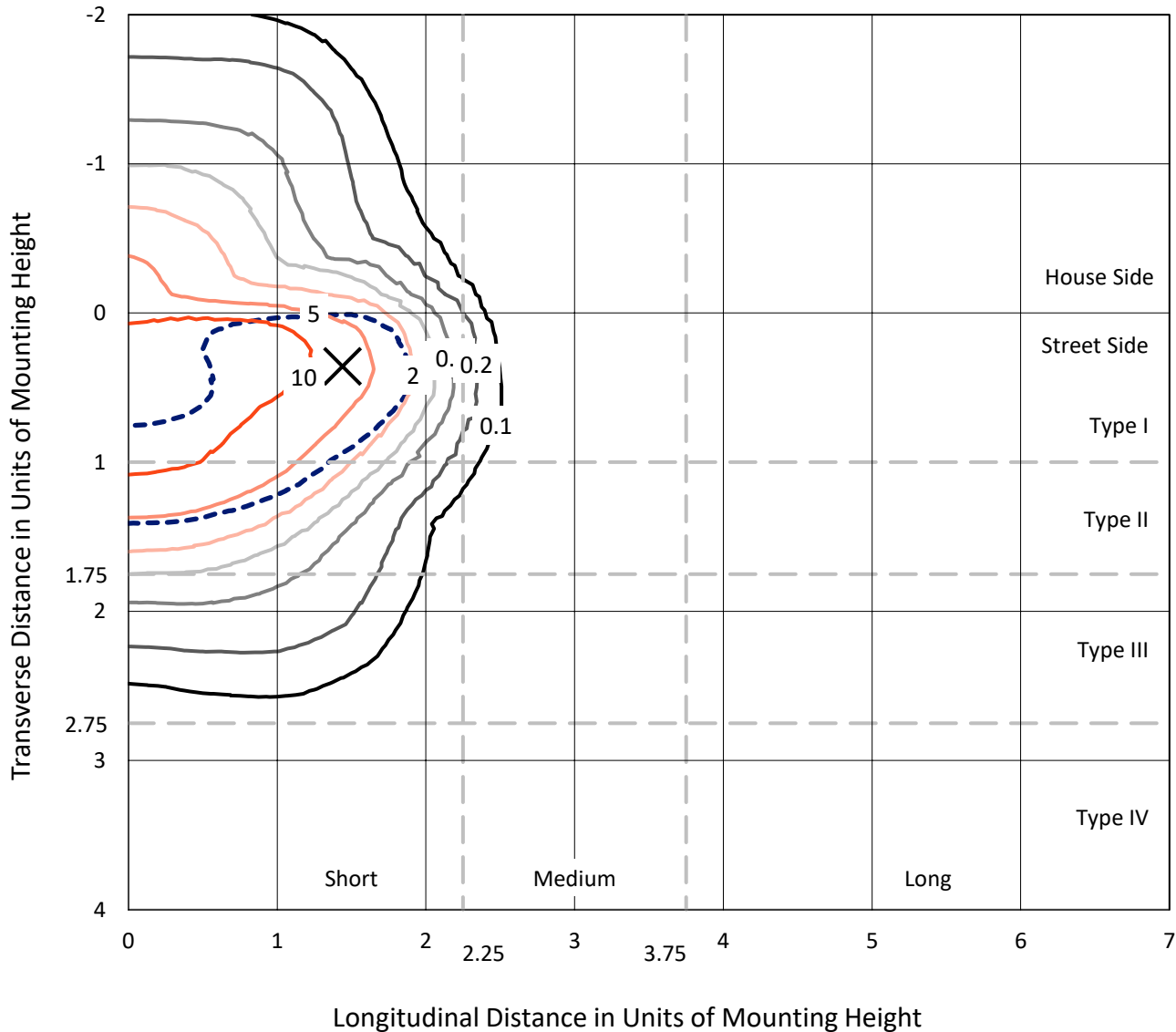
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

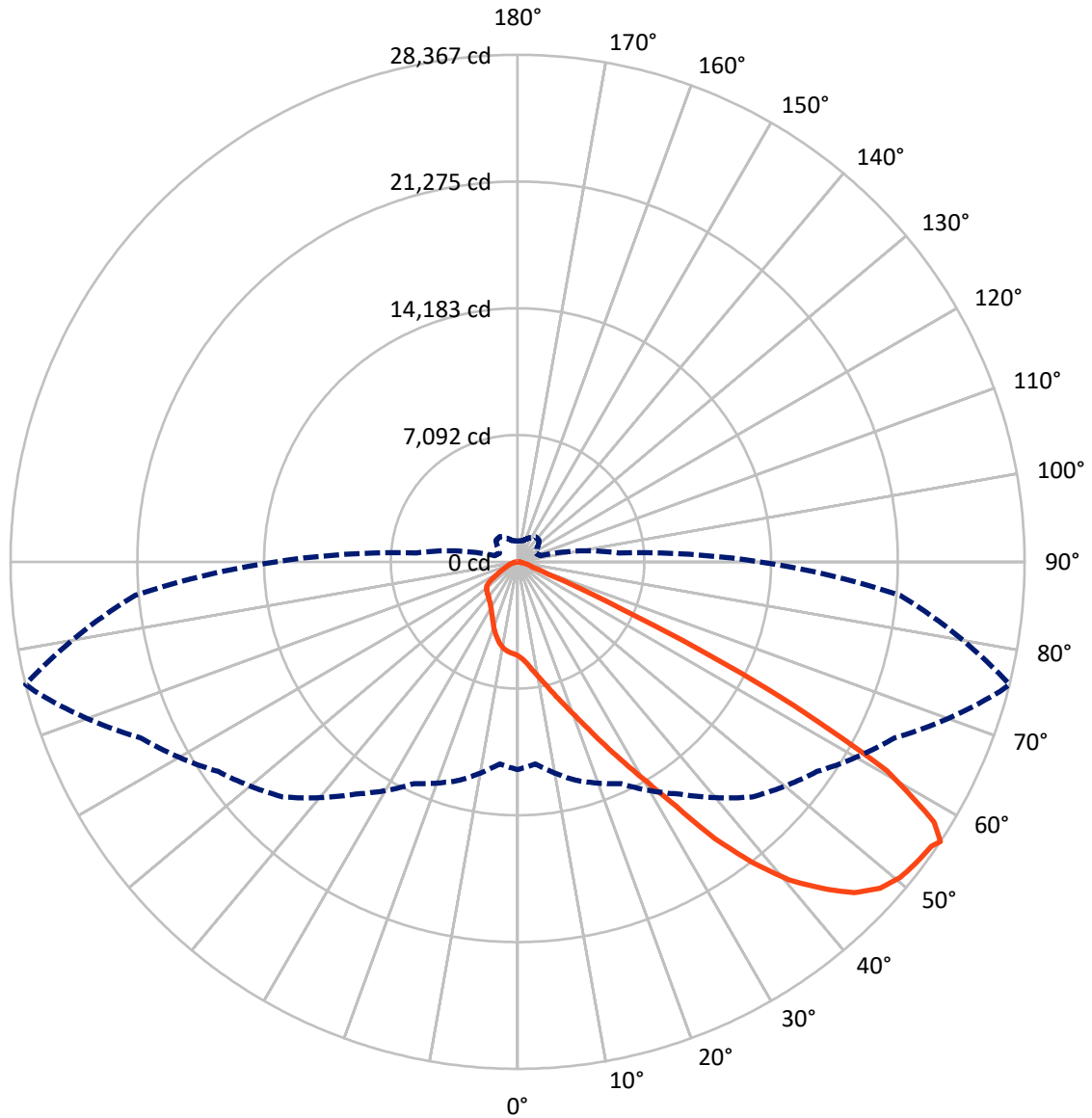
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 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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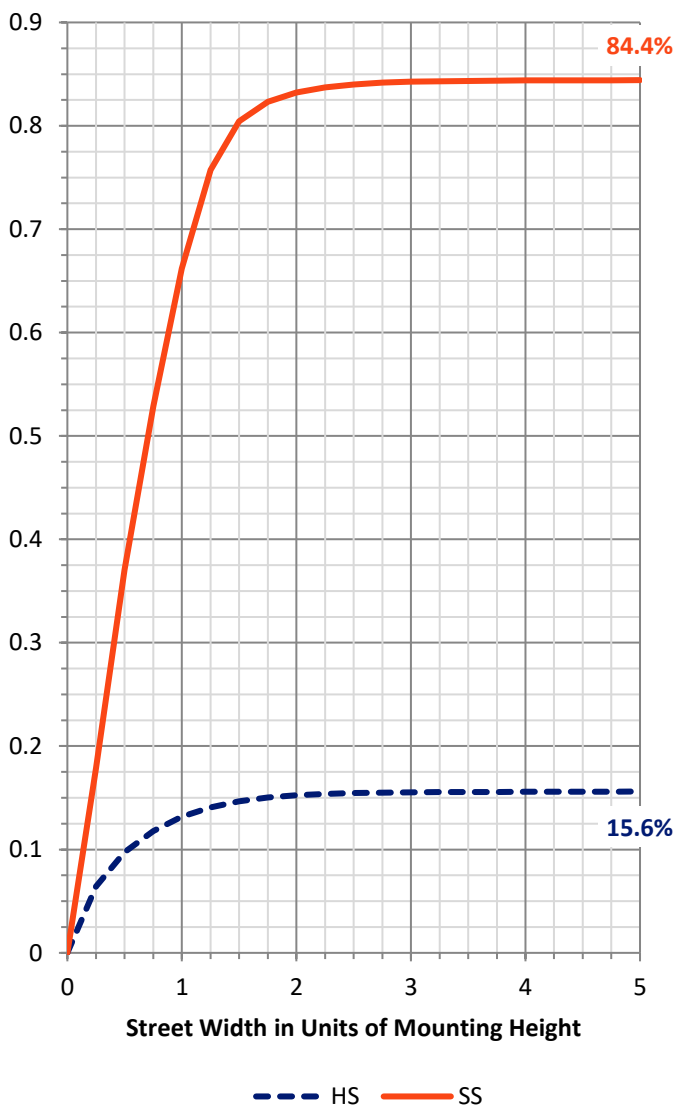
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4967.2	0.0	4967.2
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	26651.9	0.0	26651.9
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	31619.1	0.0	31619.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	530.2	1.7
10°-20°	1703.3	5.4
20°-30°	3088.5	9.8
30°-40°	5326.2	16.8
40°-50°	8652.6	27.4
50°-60°	9120.2	28.8
60°-70°	2786.6	8.8
70°-80°	357.2	1.1
80°-90°	54.3	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°	31619.1	100.0
0°-180°	31619.1	100.0

**Coefficient of Utilization**



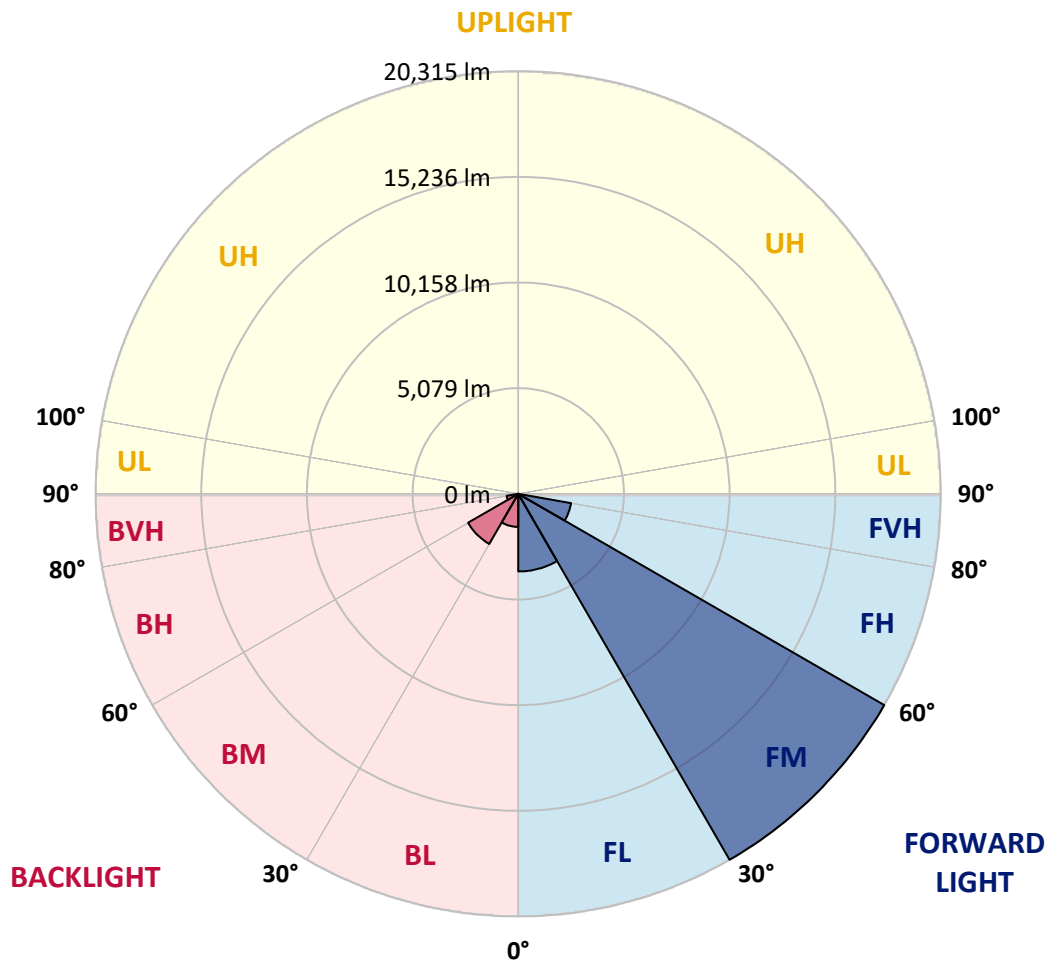
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3732.9	11.8			
FM (30°-60°)	20315.2	64.2			
FH (60°-80°)	2577.1	8.2			G2/5000
FVH (80°-90°)	26.6	0.1			G1/100
BL (0°-30°)	1589.0	5.0	B3/2500		
BM (30°-60°)	2783.8	8.8	B3/5000		
BH (60°-80°)	566.7	1.8	B2/1000		G2/1000
BVH (80°-90°)	27.7	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°	5263.1	5263.1	5263.1	5263.1	5263.1	5263.1	5263.1	5263.1	5263.1	5263.1	5263.1
2.5°	6061.5	5921.6	5927.5	5915.8	5898.4	5834.2	5641.8	5612.7	5484.5	5449.5	5332.9
5°	6790.1	6667.7	6737.6	6632.7	6533.6	6475.4	6160.6	6014.9	5810.9	5735.1	5572.0
7.5°	7244.7	7186.4	7163.1	7168.9	7075.7	6929.9	6790.1	6469.6	6195.6	6137.3	5793.4
10°	7466.1	7431.2	7466.1	7448.7	7489.5	7506.9	7262.2	7069.9	6667.7	6568.6	6032.4
12.5°	7518.6	7588.6	7617.7	7693.5	7792.5	7961.6	7944.1	7681.9	7145.6	7081.5	6399.6
15°	7646.9	7705.2	7676.0	7798.4	7984.9	8270.5	8422.0	8381.2	7804.2	7687.7	6825.1
17.5°	7763.4	7658.5	7757.6	8002.4	8188.9	8626.1	8993.2	9162.3	8521.1	8387.0	7215.5
20°	7920.8	7891.7	7874.2	7996.6	8328.8	8911.7	9640.1	9949.1	9325.4	9185.6	7775.0
22.5°	8398.7	8404.5	8392.9	8212.2	8451.2	9109.8	10205.5	10969.1	10287.1	10170.5	8410.3
25°	9028.2	8952.4	8894.2	8748.4	8719.3	9290.4	10776.7	12216.3	11441.1	11359.6	9098.1
27.5°	9692.6	9692.6	9517.8	9383.7	9197.2	9739.3	11301.3	13428.7	12834.2	12723.4	9698.4
30°	10415.4	10456.2	10432.9	10147.3	10030.7	10228.8	11837.5	14979.0	14431.1	14291.2	10689.3
32.5°	11481.9	11394.5	11493.6	11254.6	10910.8	11085.6	12682.6	16366.1	16506.1	16307.8	11989.0
35°	12892.4	12840.0	12775.9	12385.3	11977.4	12117.2	13877.4	18073.8	19111.3	19012.2	13300.4
37.5°	14157.1	14128.0	14075.6	13807.5	13335.4	13504.4	15235.5	19851.6	21652.5	21326.1	15153.8
40°	15486.1	15643.4	15474.4	15235.5	14804.1	15177.1	16832.4	20906.5	23791.6	23395.2	16570.1
42.5°	17287.0	17164.6	17240.4	16803.3	16570.1	16978.1	18435.2	21961.4	25452.6	24980.5	18073.8
45°	19204.6	19210.4	19006.4	18866.5	18260.4	18703.3	19420.2	22544.3	26775.7	26408.5	19210.4
47.5°	20434.4	20428.6	20650.0	20871.5	20247.8	19810.8	20090.5	23098.0	27457.6	27288.5	19624.2
50°	20242.0	20300.3	20585.9	21413.5	21739.9	21151.2	20720.0	22934.7	27766.5	27749.0	19979.7
52.5°	17607.6	17799.9	18277.9	19472.7	21116.2	21844.8	21378.6	23237.8	27918.0	27947.2	20510.1
55°	13405.3	13510.2	14419.4	15870.8	17689.2	20183.7	21116.2	23476.8	28034.6	28087.0	21151.2
56°	11627.7	11347.9	12659.3	13690.9	15864.9	18592.6	20451.9	23290.3	27964.7	28366.8	21471.8
57.5°	8777.6	8591.1	9651.8	10939.9	13032.3	15911.6	18388.6	22410.2	27492.5	27486.7	21011.4
60°	5338.8	5152.3	5968.2	6726.0	7897.5	9797.6	12426.1	17846.5	23243.6	23733.3	17013.1
62.5°	3176.5	3293.0	4097.4	4557.8	4936.7	5134.8	6428.7	10607.7	15509.4	15859.1	10555.2
65°	2115.7	2156.5	2762.7	3520.3	3689.4	2937.5	2616.9	4295.5	6726.0	6510.3	4353.8
67.5°	1305.6	1398.8	1853.4	2646.1	2931.6	2144.9	1241.5	1602.8	1853.4	1853.4	1258.9
70°	792.6	839.3	1235.6	1801.0	2010.8	1381.3	903.4	903.4	891.7	874.2	751.9
72.5°	378.9	408.0	629.5	926.7	944.2	728.6	699.4	763.5	746.1	740.2	623.6
75°	163.2	174.8	221.5	291.4	332.2	308.9	425.5	547.8	565.3	547.8	448.8
77.5°	52.5	58.3	81.6	104.9	110.8	134.1	180.6	227.3	262.3	244.8	221.5
80°	5.8	11.7	23.3	52.5	81.6	104.9	134.1	151.5	169.0	169.0	157.4
82.5°	5.8	5.8	23.3	46.6	75.8	99.1	128.3	145.7	169.0	174.8	163.2
85°	0.0	5.8	17.5	40.8	64.1	64.1	58.3	58.3	40.8	40.8	40.8
87.5°	0.0	0.0	5.8	5.8	5.8	11.7	11.7	11.7	11.7	11.7	11.7
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°	5263.1	5263.1	5263.1	5263.1	5263.1	5263.1	5263.1	5263.1	5263.1	5263.1	5263.1
2.5°	5309.7	5298.0	5140.6	5041.5	4989.1	4884.2	4820.1	4773.4	4738.4	4697.7	4703.5
5°	5379.6	5338.8	5076.5	4895.9	4680.2	4563.6	4464.5	4383.0	4330.5	4318.9	4295.5
7.5°	5577.8	5362.1	4965.8	4639.4	4365.5	4248.9	4161.4	4109.0	4132.3	4079.9	4120.6
10°	5729.3	5408.7	4831.7	4359.7	4085.7	3998.3	3951.7	3992.5	4050.8	4027.4	3998.3
12.5°	5915.8	5455.4	4616.1	4091.5	3835.0	3771.0	3852.5	3928.3	4044.9	4091.5	4033.3
15°	6125.7	5507.9	4342.2	3782.6	3619.4	3671.9	3811.7	3945.8	4062.4	4120.6	4155.6
17.5°	6382.1	5490.4	4074.1	3537.8	3415.5	3567.0	3736.0	3858.4	4033.3	4120.6	4097.4
20°	6621.0	5432.1	3776.8	3293.0	3298.9	3438.8	3578.6	3776.8	3870.0	3986.6	3945.8
22.5°	6848.3	5327.1	3467.9	3124.1	3124.1	3339.7	3409.6	3537.8	3619.4	3677.7	3671.9
25°	7168.9	5129.0	3211.4	2960.8	3030.8	3170.7	3228.9	3269.7	3234.7	3281.4	3287.2
27.5°	7396.3	4925.0	3001.6	2815.1	2943.3	3048.3	3030.8	3007.4	2925.8	2861.8	2902.5
30°	7641.0	4686.1	2821.0	2716.0	2786.0	2879.2	2809.3	2739.3	2611.1	2506.2	2512.1
32.5°	7990.8	4575.3	2663.6	2599.4	2692.7	2704.4	2628.6	2523.7	2395.5	2296.4	2290.5
35°	8643.5	4505.3	2529.6	2523.7	2541.2	2547.0	2471.3	2343.0	2290.5	2209.0	2238.1
37.5°	9296.3	4470.4	2436.3	2413.0	2407.1	2413.0	2325.5	2203.2	2302.2	2296.4	2308.0
40°	10129.8	4627.8	2302.2	2273.1	2278.9	2278.9	2168.2	2133.2	2308.0	2325.5	2331.3
42.5°	10974.9	4825.9	2214.8	2121.5	2144.9	2144.9	2086.6	2045.7	2168.2	2051.6	2034.1
45°	11709.2	5117.3	2121.5	1970.0	2028.3	2057.4	2039.9	1970.0	1894.3	1696.0	1696.0
47.5°	11948.3	5373.8	2010.8	1824.3	1870.9	1999.1	1946.7	1801.0	1666.9	1503.7	1492.1
50°	12367.8	5653.5	1923.4	1655.3	1754.3	1911.7	1859.3	1713.5	1562.0	1445.4	1451.2
52.5°	12799.2	5974.1	1760.2	1457.1	1579.5	1841.8	1841.8	1678.6	1445.4	1363.8	1352.2
55°	13446.1	5962.4	1468.7	1194.8	1410.4	1736.8	1766.0	1503.7	1293.9	1229.8	1229.8
56°	13539.3	5694.3	1323.1	1119.0	1334.7	1707.7	1713.5	1457.1	1235.6	1165.7	1165.7
57.5°	12840.0	5140.6	1159.8	1025.8	1241.5	1655.3	1661.1	1416.3	1189.0	1089.9	1078.2
60°	9879.1	3479.6	967.5	915.1	1124.9	1492.1	1521.2	1288.1	1043.3	967.5	961.7
62.5°	5577.8	1929.2	850.9	827.6	967.5	1270.6	1358.0	1124.9	885.9	845.1	856.8
65°	2547.0	1060.8	716.9	670.3	781.0	979.2	1095.7	926.7	728.6	681.9	681.9
67.5°	932.6	722.8	612.0	530.4	547.8	635.3	711.1	600.3	483.7	413.9	431.3
70°	664.5	606.2	536.2	460.4	425.5	413.9	408.0	338.1	238.9	186.5	198.1
72.5°	536.2	501.2	448.8	390.5	332.2	279.8	238.9	174.8	110.8	75.8	70.0
75°	384.7	367.2	326.4	279.8	233.1	198.1	163.2	110.8	58.3	29.2	29.2
77.5°	198.1	198.1	192.3	174.8	145.7	116.6	93.3	64.1	35.0	11.7	11.7
80°	151.5	163.2	169.0	151.5	134.1	104.9	75.8	46.6	23.3	5.8	5.8
82.5°	145.7	169.0	180.6	157.4	134.1	99.1	75.8	46.6	23.3	5.8	5.8
85°	35.0	35.0	52.5	58.3	75.8	81.6	64.1	40.8	17.5	5.8	5.8
87.5°	11.7	11.7	11.7	11.7	11.7	11.7	5.8	5.8	5.8	5.8	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)