

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: P650926

Luminaire Tested: **GALN-SA5C-840-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650926  
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-SA5C-840-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1050mA 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: 17682 lumens  
Efficiency: N/A  
Efficacy: 65.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

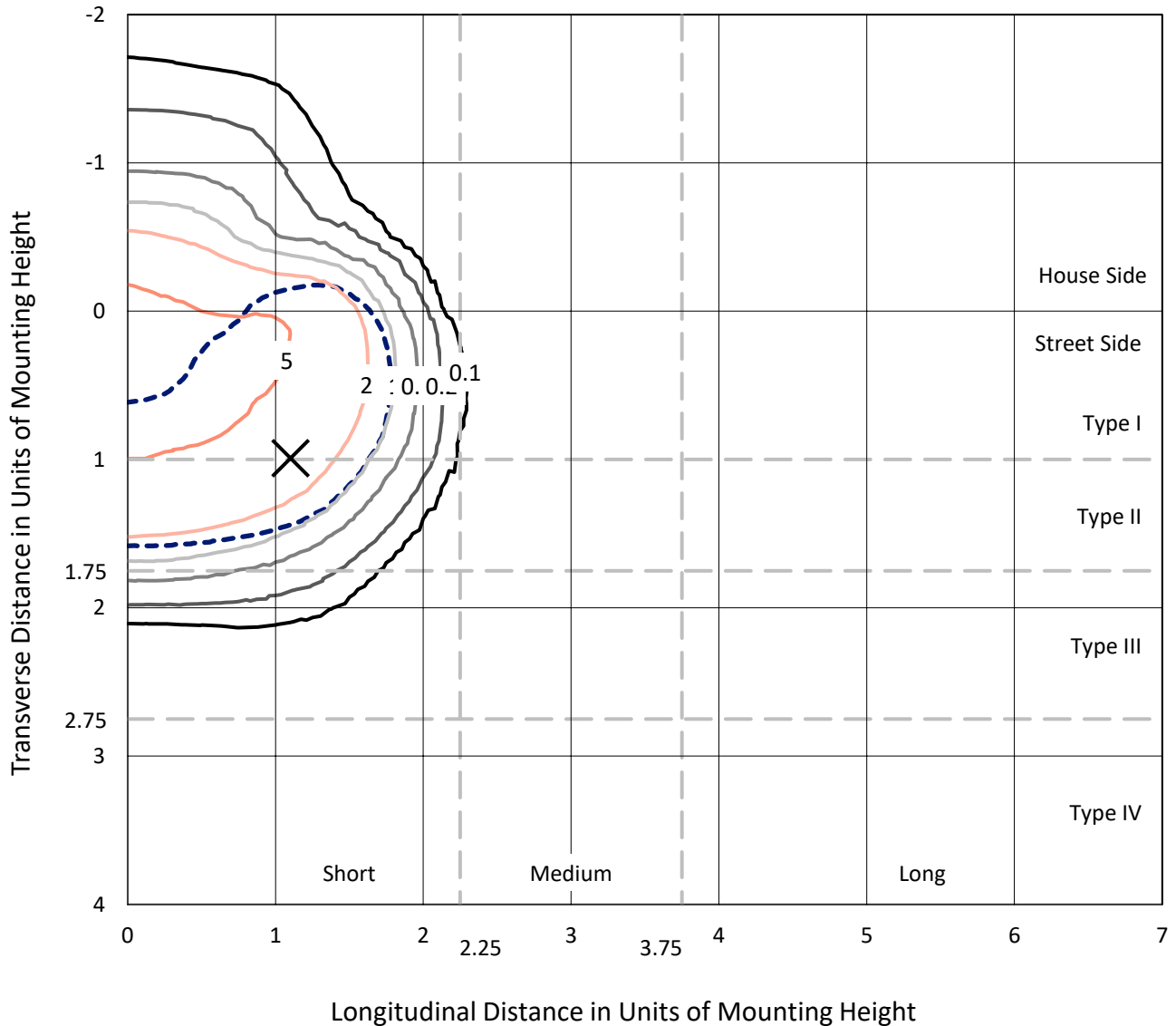
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

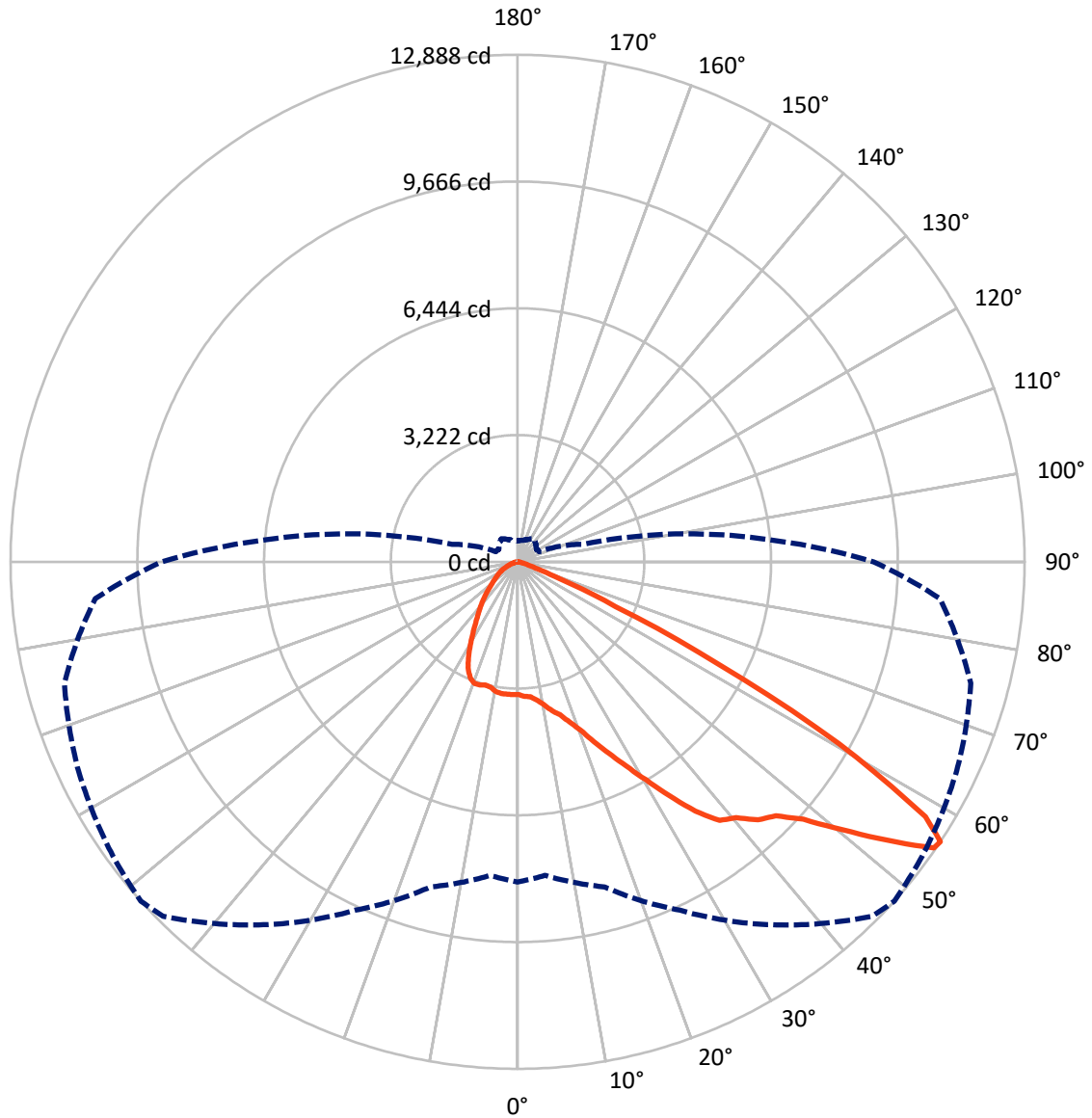
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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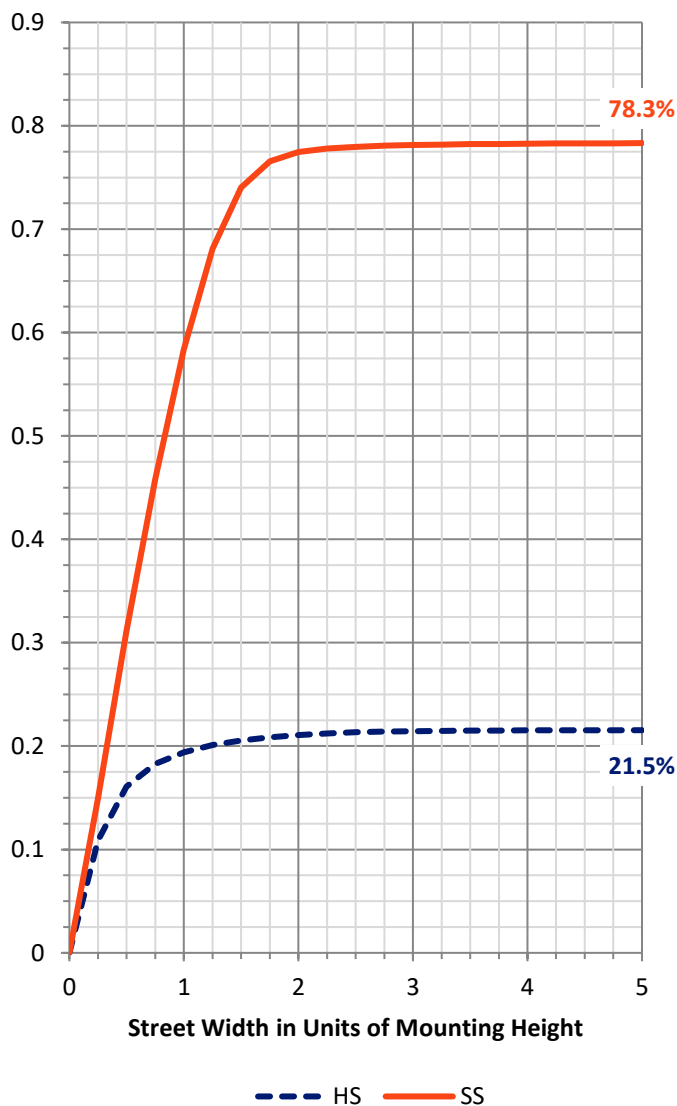
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3845.5	0.0	3845.5
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	13836.5	0.0	13836.5
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	17682.0	0.0	17682.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.0	1.9
10°-20°	1051.4	5.9
20°-30°	1907.0	10.8
30°-40°	2995.5	16.9
40°-50°	4369.9	24.7
50°-60°	5264.9	29.8
60°-70°	1541.5	8.7
70°-80°	195.6	1.1
80°-90°	27.4	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°	17682.0	100.0
0°-180°	17682.0	100.0

**Coefficient of Utilization**



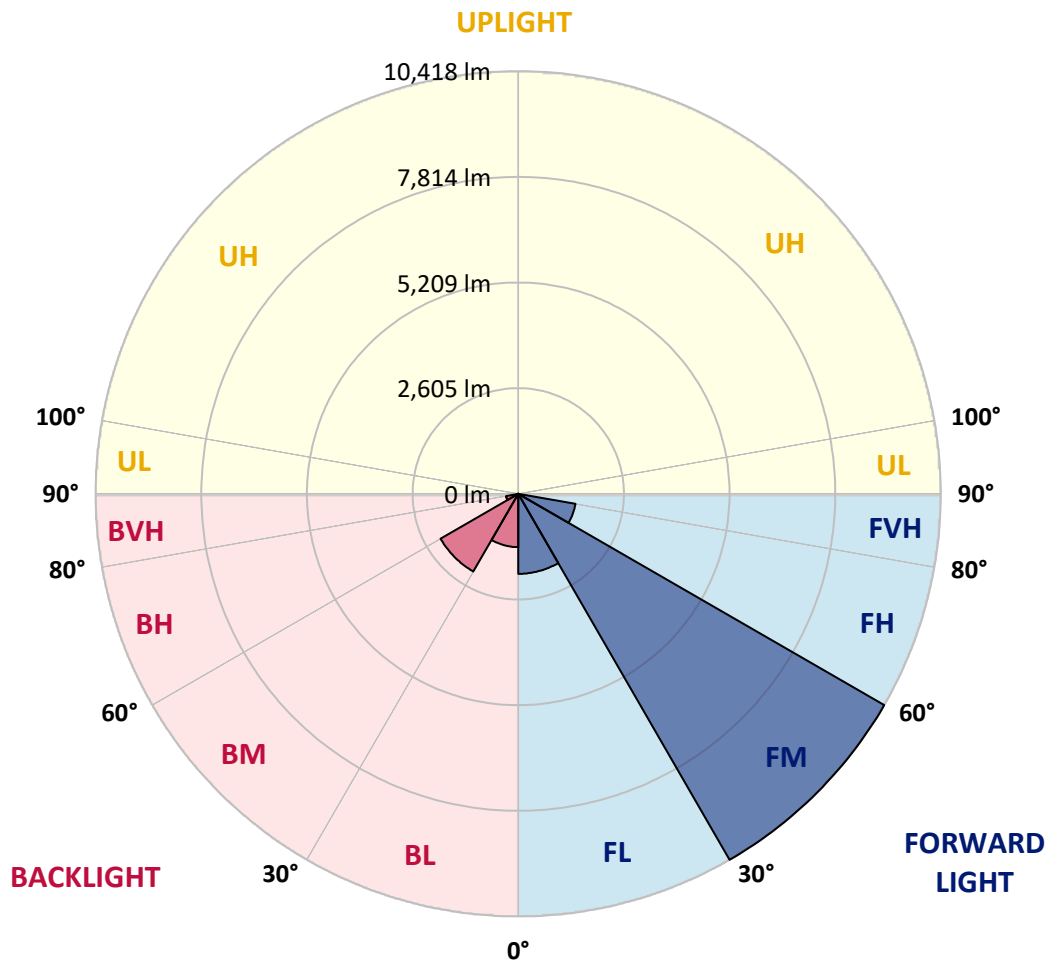
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1973.0	11.2			
FM (30°-60°)	10418.3	58.9			
FH (60°-80°)	1431.5	8.1			G1/1800
FVH (80°-90°)	13.8	0.1			G1/100
BL (0°-30°)	1314.4	7.4	B3/2500		
BM (30°-60°)	2211.9	12.5	B2/2500		
BH (60°-80°)	305.6	1.7	B1/500		G1/500
BVH (80°-90°)	13.7	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3377.3	3377.3	3377.3	3377.3	3377.3	3377.3	3377.3	3377.3	3377.3	3377.3	3377.3
2.5°	3438.4	3422.4	3422.4	3396.6	3425.6	3412.7	3422.4	3390.2	3422.4	3374.1	3412.7
5°	3454.6	3457.8	3444.9	3461.0	3461.0	3480.3	3448.1	3477.1	3493.2	3457.8	3441.6
7.5°	3538.3	3544.7	3541.5	3528.6	3554.3	3551.1	3547.9	3525.4	3531.8	3518.9	3499.7
10°	3702.4	3699.2	3715.3	3683.2	3663.8	3686.4	3692.7	3657.3	3631.6	3621.9	3560.8
12.5°	3940.7	3902.1	3879.5	3847.3	3857.0	3824.8	3882.7	3821.6	3808.7	3750.8	3689.6
15°	4133.9	4127.5	4130.7	4079.1	4021.2	4034.0	4034.0	4001.9	3982.6	3911.7	3824.8
17.5°	4529.9	4394.6	4423.6	4359.2	4311.0	4307.7	4278.8	4285.1	4233.7	4085.6	3953.5
20°	4838.9	4781.0	4735.9	4626.4	4552.4	4575.0	4562.1	4529.9	4513.7	4320.6	4133.9
22.5°	5115.8	5135.1	5061.1	5032.1	4929.1	4938.8	4964.5	4935.5	4813.2	4613.6	4336.7
25°	5505.4	5482.8	5383.1	5347.6	5251.0	5286.4	5386.3	5363.7	5286.4	4925.8	4494.5
27.5°	5965.8	5888.5	5907.9	5746.8	5653.5	5753.3	5872.4	5985.1	5766.1	5292.9	4681.2
30°	6290.9	6210.4	6204.0	6197.6	6175.0	6290.9	6429.4	6532.4	6355.4	5659.9	4990.2
32.5°	6451.9	6471.2	6526.0	6506.6	6703.0	6941.3	7086.2	7234.3	7012.1	6258.7	5399.1
35°	6880.1	6757.8	6880.1	6893.0	7095.9	7601.3	7784.8	8138.9	8084.2	7105.4	5898.2
37.5°	7131.3	7121.6	7137.7	7260.0	7456.4	8081.0	8341.8	8615.5	8512.4	7614.2	6519.5
40°	7546.5	7572.3	7569.1	7662.4	7878.2	8441.5	8547.8	8769.9	8779.6	8319.3	7433.9
42.5°	8213.0	8109.9	8042.3	8138.9	8441.5	8753.9	8966.3	8921.2	9240.0	9175.6	8609.0
45°	8811.8	8873.0	8773.2	8934.2	9043.6	9211.1	9204.6	9301.2	9706.8	10012.7	9494.4
47.5°	9372.0	9410.6	9459.0	9568.4	9806.6	9832.4	9777.7	9735.8	10296.0	10611.6	10180.1
50°	9706.8	9742.2	9967.6	10164.0	10608.3	10666.2	10698.4	10592.2	10972.1	11007.5	10827.2
52.5°	9616.7	9655.4	9970.8	10618.0	11326.3	11857.5	11760.9	11580.6	11558.0	11696.5	11426.1
55°	8818.2	8782.8	9217.4	10225.2	11551.6	12826.6	12839.5	12649.5	12285.7	12192.3	11335.9
56°	8138.9	8000.5	8554.2	9771.2	11261.9	12742.8	12887.7	12684.9	12343.6	11925.1	10778.9
57.5°	6667.6	6799.7	7350.2	8357.9	10260.6	12140.8	12224.5	12176.3	11918.7	11216.8	9484.7
60°	3676.7	3908.5	4394.6	5627.7	7305.1	9317.3	9384.9	9777.7	9826.0	8589.6	6526.0
62.5°	1561.5	1535.8	2041.2	2949.1	4159.6	5624.5	5750.1	6152.5	6226.5	4951.6	3274.3
65°	634.3	669.7	924.0	1484.2	2199.0	2562.7	2739.8	2871.8	3116.5	2044.4	1207.3
67.5°	418.6	415.3	544.1	846.7	1184.8	1142.9	1142.9	1207.3	1117.2	833.9	521.6
70°	299.4	309.1	389.6	585.9	737.3	547.3	524.8	502.2	569.9	550.5	421.8
72.5°	196.4	209.2	260.8	350.9	383.2	299.4	299.4	360.6	470.0	444.3	344.5
75°	128.8	132.0	161.0	202.8	190.0	154.6	170.6	241.5	341.3	328.4	244.6
77.5°	87.0	90.2	109.5	132.0	106.2	87.0	93.4	122.4	167.4	167.4	128.8
80°	32.2	35.4	45.1	41.9	48.3	61.1	67.6	83.7	99.8	99.8	87.0
82.5°	0.0	3.2	9.7	22.5	35.4	48.3	54.7	64.4	74.0	83.7	80.5
85°	0.0	3.2	9.7	16.1	25.7	29.0	32.2	22.5	19.3	19.3	16.1
87.5°	0.0	0.0	3.2	3.2	3.2	3.2	3.2	3.2	6.5	3.2	3.2
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°	3377.3	3377.3	3377.3	3377.3	3377.3	3377.3	3377.3	3377.3	3377.3	3377.3	3377.3
2.5°	3377.3	3374.1	3374.1	3364.4	3383.7	3374.1	3380.5	3377.3	3335.4	3367.6	3345.1
5°	3412.7	3435.2	3399.8	3393.4	3367.6	3377.3	3377.3	3345.1	3374.1	3370.8	3364.4
7.5°	3502.8	3464.2	3425.6	3387.0	3380.5	3370.8	3335.4	3322.5	3345.1	3319.3	3357.9
10°	3541.5	3547.9	3490.0	3438.4	3390.2	3322.5	3274.3	3245.3	3209.8	3248.5	3271.1
12.5°	3718.6	3654.1	3554.3	3473.8	3309.7	3242.1	3193.8	3180.9	3242.1	3254.9	3232.4
15°	3779.7	3770.0	3641.3	3461.0	3290.3	3209.8	3219.5	3193.8	3200.2	3168.0	3174.4
17.5°	3905.3	3795.9	3644.5	3419.2	3287.1	3267.8	3209.8	3106.8	3048.9	3023.1	3045.7
20°	4043.7	3937.5	3718.6	3435.2	3316.1	3264.6	3074.6	2949.1	2830.0	2765.5	2768.8
22.5°	4166.1	4034.0	3686.4	3441.6	3341.9	3129.4	2900.8	2652.9	2504.8	2405.0	2408.2
25°	4314.2	4127.5	3699.2	3454.6	3274.3	2913.6	2585.2	2343.8	2166.8	2099.1	2121.7
27.5°	4397.8	4185.4	3770.0	3483.5	3097.2	2607.8	2253.6	2028.3	1925.3	1893.1	1889.9
30°	4649.0	4314.2	3857.0	3425.6	2801.0	2279.4	1951.0	1812.6	1712.8	1683.8	1690.2
32.5°	5022.5	4549.1	3969.7	3274.3	2498.4	1986.4	1754.7	1651.6	1558.2	1503.5	1497.1
35°	5334.7	4951.6	4088.8	3039.2	2147.4	1761.1	1616.2	1487.4	1345.8	1284.6	1268.5
37.5°	5930.3	5405.6	4063.0	2685.1	1812.6	1593.7	1468.1	1310.4	1188.0	1104.3	1094.6
40°	6722.4	5936.8	3937.5	2253.6	1564.7	1445.6	1310.4	1159.1	1007.7	936.9	930.5
42.5°	7685.0	6587.1	3708.9	1815.8	1316.8	1297.5	1175.1	1001.3	866.1	814.5	817.8
45°	8467.4	7144.1	3477.1	1458.5	1133.2	1152.6	1046.4	882.1	788.8	746.9	746.9
47.5°	9162.8	7520.8	3226.0	1204.1	962.6	1007.7	914.3	817.8	737.3	705.1	698.6
50°	9832.4	7903.9	2974.9	975.5	821.0	866.1	856.4	779.1	714.8	676.1	679.4
52.5°	10250.9	7965.1	2656.1	798.4	718.0	769.4	801.6	730.8	660.0	637.5	631.0
55°	9739.0	7176.3	2060.4	656.8	608.5	676.1	737.3	656.8	602.1	563.4	560.2
56°	9050.1	6416.5	1722.5	605.3	576.3	650.3	714.8	627.8	566.7	544.1	528.0
57.5°	7662.4	5251.0	1271.7	537.7	534.5	605.3	679.4	598.8	528.0	508.7	508.7
60°	4777.8	2955.5	769.4	450.7	463.6	537.7	611.7	534.5	470.0	470.0	479.7
62.5°	2176.4	1229.9	466.8	383.2	399.2	463.6	544.1	482.9	447.5	482.9	489.4
65°	740.5	531.3	338.1	305.9	315.5	383.2	466.8	489.4	486.2	508.7	521.6
67.5°	415.3	341.3	283.3	254.3	247.9	283.3	383.2	489.4	470.0	460.4	466.8
70°	350.9	289.7	251.1	225.4	215.7	228.6	296.2	370.2	331.6	321.9	315.5
72.5°	283.3	241.5	218.9	202.8	173.8	148.1	135.2	141.6	157.8	167.4	183.5
75°	199.6	183.5	183.5	164.2	125.6	93.4	74.0	61.1	41.9	29.0	32.2
77.5°	112.7	112.7	115.9	99.8	80.5	61.1	45.1	32.2	16.1	6.5	3.2
80°	77.3	83.7	90.2	80.5	67.6	54.7	38.6	22.5	9.7	0.0	0.0
82.5°	77.3	87.0	93.4	80.5	67.6	51.6	38.6	22.5	9.7	3.2	0.0
85°	16.1	19.3	22.5	25.7	38.6	38.6	29.0	19.3	9.7	3.2	0.0
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	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)