

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: P533703

Luminaire Tested: **GALN-SA9A-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533703
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-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 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: 18199 lumens
Efficiency: N/A
Efficacy: 66.4 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

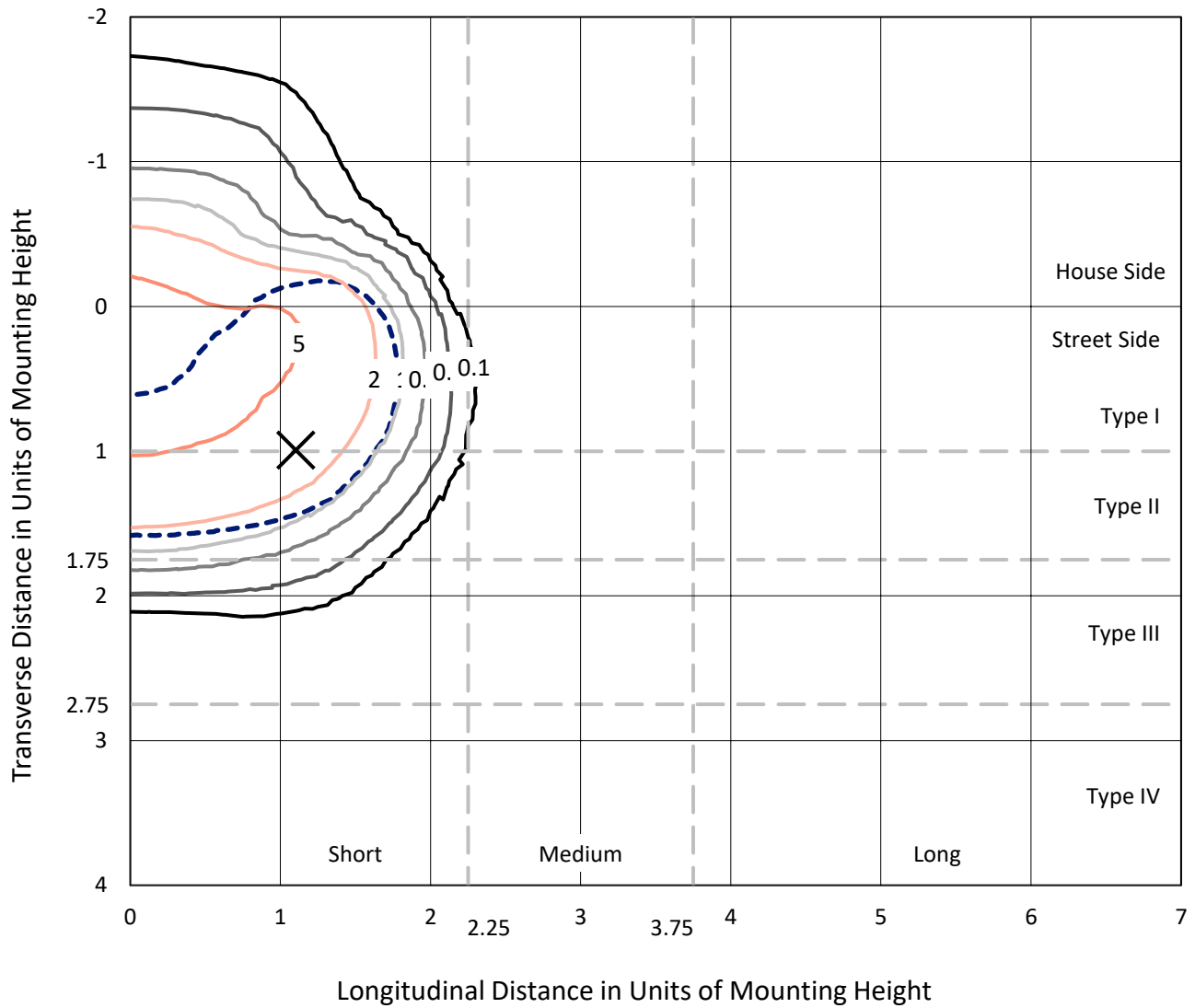
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

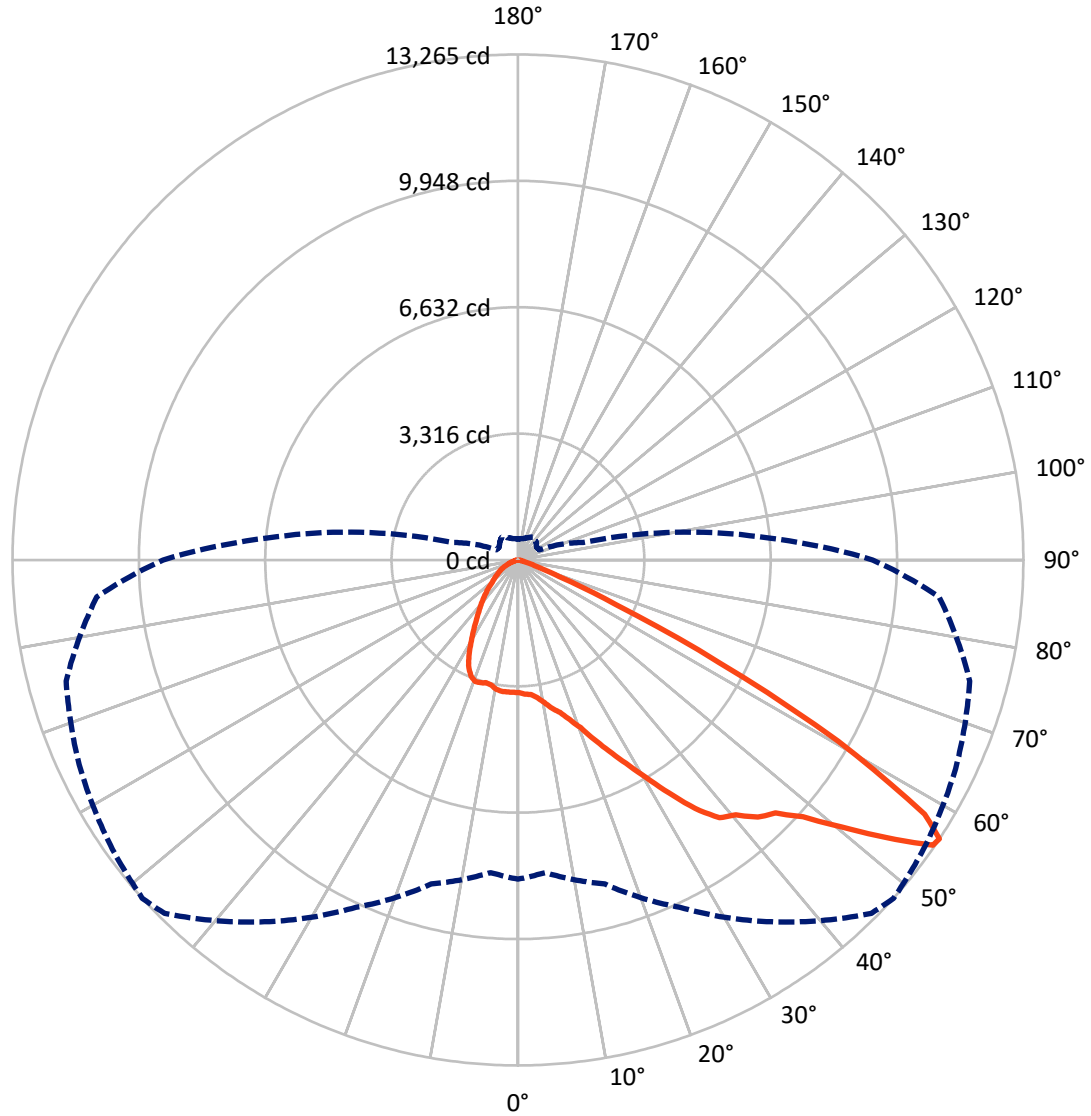
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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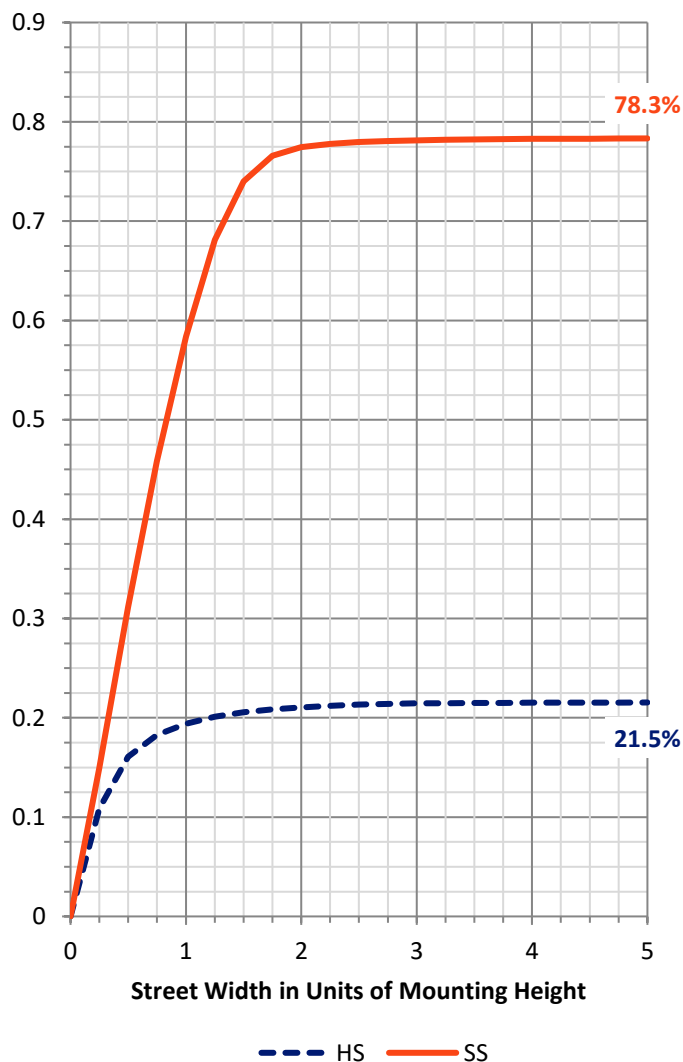
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3957.9	0.0	3957.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	14241.1	0.0	14241.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	18199.0	0.0	18199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.6	1.9
10°-20°	1082.1	5.9
20°-30°	1962.7	10.8
30°-40°	3083.1	16.9
40°-50°	4497.6	24.7
50°-60°	5418.8	29.8
60°-70°	1586.6	8.7
70°-80°	201.3	1.1
80°-90°	28.2	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°	18199.0	100.0
0°-180°	18199.0	100.0

Coefficient of Utilization

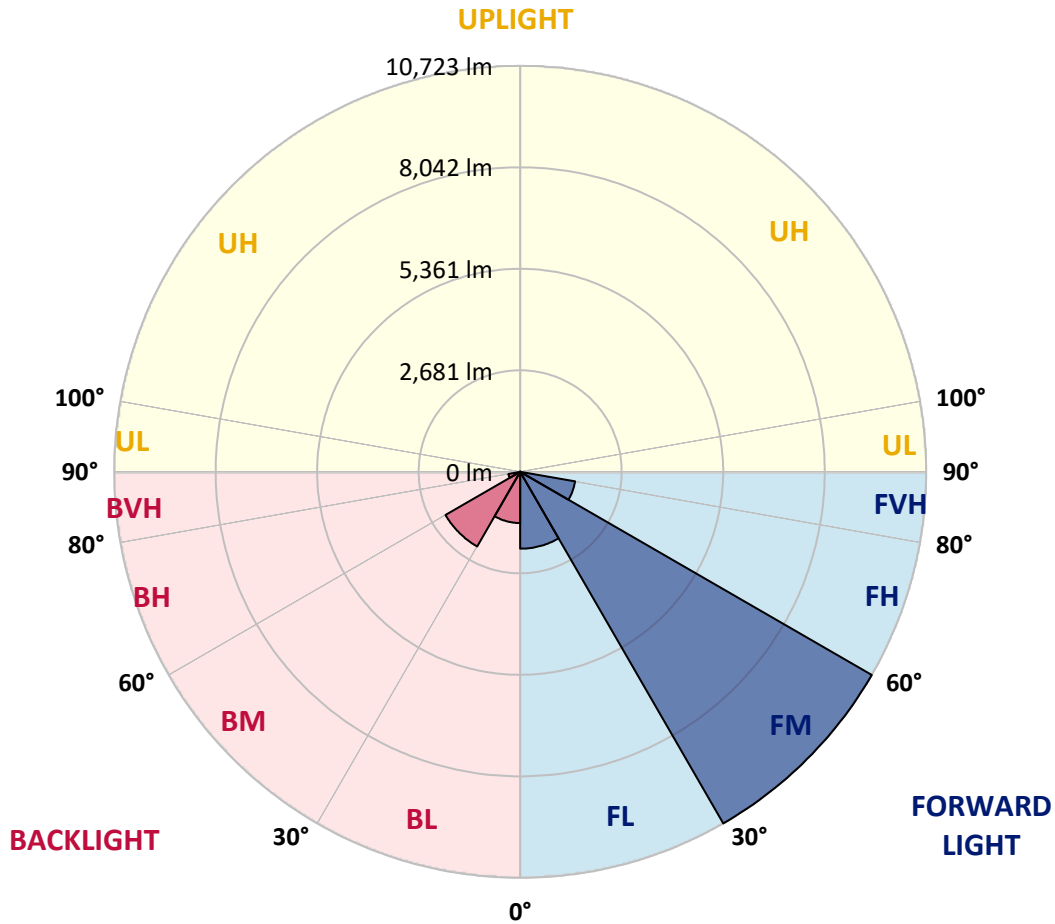


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2030.6	11.2			
FM (30°-60°)	10722.9	58.9			
FH (60°-80°)	1473.3	8.1			G1/1800
FVH (80°-90°)	14.2	0.1			G1/100
BL (0°-30°)	1352.8	7.4	B3/2500		
BM (30°-60°)	2276.6	12.5	B2/2500		
BH (60°-80°)	314.5	1.7	B1/500		G1/500
BVH (80°-90°)	14.1	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°	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0
2.5°	3539.0	3522.4	3522.4	3495.9	3525.7	3512.5	3522.4	3489.3	3522.4	3472.7	3512.5
5°	3555.5	3558.9	3545.6	3562.2	3562.2	3582.1	3548.9	3578.7	3595.3	3558.9	3542.3
7.5°	3641.7	3648.3	3645.0	3631.8	3658.3	3655.0	3651.6	3628.4	3635.1	3621.8	3601.9
10°	3810.7	3807.4	3823.9	3790.8	3770.9	3794.1	3800.8	3764.3	3737.8	3727.9	3664.9
12.5°	4055.9	4016.1	3992.9	3959.8	3969.8	3936.6	3996.3	3933.3	3920.0	3860.4	3797.4
15°	4254.7	4248.1	4251.4	4198.4	4138.7	4152.0	4152.0	4118.9	4099.0	4026.1	3936.6
17.5°	4662.3	4523.1	4553.0	4486.7	4437.0	4433.7	4403.8	4410.5	4357.4	4205.0	4069.2
20°	4980.4	4920.8	4874.4	4761.7	4685.5	4708.7	4695.4	4662.3	4645.7	4446.9	4254.7
22.5°	5265.4	5285.3	5209.1	5179.2	5073.2	5083.1	5109.6	5079.8	4953.9	4748.5	4463.5
25°	5666.3	5643.1	5540.4	5504.0	5404.6	5441.0	5543.7	5520.5	5441.0	5069.9	4625.9
27.5°	6140.2	6060.7	6080.5	5914.9	5818.8	5921.5	6044.1	6160.1	5934.7	5447.6	4818.0
30°	6474.9	6392.0	6385.4	6378.8	6355.6	6474.9	6617.4	6723.4	6541.1	5825.4	5136.2
32.5°	6640.6	6660.4	6716.8	6696.9	6899.0	7144.2	7293.3	7445.8	7217.1	6441.7	5557.0
35°	7081.3	6955.3	7081.3	7094.5	7303.3	7823.5	8012.4	8376.9	8320.6	7313.2	6070.6
37.5°	7339.7	7329.8	7346.4	7472.3	7674.4	8317.3	8585.7	8867.3	8761.3	7836.8	6710.1
40°	7767.2	7793.7	7790.4	7886.5	8108.5	8688.4	8797.7	9026.4	9036.3	8562.5	7651.2
42.5°	8453.1	8347.1	8277.5	8376.9	8688.4	9009.8	9228.5	9182.1	9510.2	9443.9	8860.7
45°	9069.5	9132.4	9029.7	9195.4	9308.0	9480.3	9473.7	9573.1	9990.6	10305.4	9771.9
47.5°	9646.0	9685.8	9735.5	9848.2	10093.4	10119.9	10063.5	10020.5	10597.0	10921.8	10477.8
50°	9990.6	10027.1	10259.1	10461.2	10918.5	10978.1	11011.3	10901.9	11292.9	11329.4	11143.8
52.5°	9897.9	9937.6	10262.4	10928.4	11657.4	12204.2	12104.8	11919.2	11896.0	12038.5	11760.1
55°	9076.1	9039.6	9487.0	10524.1	11889.4	13201.6	13214.8	13019.3	12644.9	12548.8	11667.4
56°	8376.9	8234.4	8804.4	10056.9	11591.1	13115.4	13264.5	13055.8	12704.5	12273.8	11094.1
57.5°	6862.6	6998.4	7565.1	8602.2	10560.6	12495.8	12581.9	12532.2	12267.1	11544.8	9762.0
60°	3784.2	4022.8	4523.1	5792.3	7518.7	9589.7	9659.3	10063.5	10113.3	8840.8	6716.8
62.5°	1607.1	1580.6	2100.9	3035.3	4281.2	5788.9	5918.2	6332.4	6408.6	5096.4	3370.0
65°	652.8	689.2	951.0	1527.6	2263.2	2637.7	2819.9	2955.8	3207.6	2104.2	1242.6
67.5°	430.8	427.5	560.0	871.5	1219.4	1176.3	1176.3	1242.6	1149.8	858.2	536.8
70°	308.2	318.1	401.0	603.1	758.8	563.3	540.1	516.9	586.5	566.6	434.1
72.5°	202.1	215.4	268.4	361.2	394.3	308.2	308.2	371.1	483.8	457.3	354.6
75°	132.5	135.9	165.7	208.8	195.5	159.1	175.6	248.5	351.2	338.0	251.8
77.5°	89.5	92.8	112.7	135.9	109.4	89.5	96.1	125.9	172.3	172.3	132.5
80°	33.1	36.5	46.4	43.1	49.7	63.0	69.6	86.2	102.7	102.7	89.5
82.5°	0.0	3.3	9.9	23.2	36.5	49.7	56.3	66.3	76.2	86.2	82.8
85°	0.0	3.3	9.9	16.6	26.5	29.8	33.1	23.2	19.9	19.9	16.6
87.5°	0.0	0.0	3.3	3.3	3.3	3.3	3.3	3.3	6.6	3.3	3.3
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°	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0	3476.0
2.5°	3476.0	3472.7	3472.7	3462.8	3482.6	3472.7	3479.3	3476.0	3432.9	3466.1	3442.9
5°	3512.5	3535.7	3499.2	3492.6	3466.1	3476.0	3476.0	3442.9	3472.7	3469.4	3462.8
7.5°	3605.2	3565.5	3525.7	3486.0	3479.3	3469.4	3432.9	3419.7	3442.9	3416.4	3456.1
10°	3645.0	3651.6	3592.0	3539.0	3489.3	3419.7	3370.0	3340.2	3303.7	3343.5	3366.7
12.5°	3827.3	3761.0	3658.3	3575.4	3406.4	3336.8	3287.1	3273.9	3336.8	3350.1	3326.9
15°	3890.2	3880.3	3747.7	3562.2	3386.5	3303.7	3313.6	3287.1	3293.8	3260.6	3267.3
17.5°	4019.5	3906.8	3751.0	3519.1	3383.2	3363.4	3303.7	3197.7	3138.0	3111.5	3134.7
20°	4161.9	4052.6	3827.3	3535.7	3413.1	3360.0	3164.5	3035.3	2912.7	2846.4	2849.7
22.5°	4287.9	4152.0	3794.1	3542.3	3439.6	3220.9	2985.6	2730.4	2578.0	2475.3	2478.6
25°	4440.3	4248.1	3807.4	3555.5	3370.0	2998.9	2660.9	2412.3	2230.1	2160.5	2183.7
27.5°	4526.4	4307.7	3880.3	3585.4	3187.7	2684.1	2319.6	2087.6	1981.6	1948.4	1945.1
30°	4784.9	4440.3	3969.8	3525.7	2882.9	2346.1	2008.1	1865.6	1762.9	1733.0	1739.7
32.5°	5169.3	4682.2	4085.7	3370.0	2571.4	2044.5	1805.9	1699.9	1603.8	1547.5	1540.8
35°	5490.7	5096.4	4208.3	3128.1	2210.2	1812.6	1663.5	1530.9	1385.1	1322.1	1305.6
37.5°	6103.7	5563.6	4181.8	2763.6	1865.6	1640.3	1511.0	1348.7	1222.7	1136.6	1126.6
40°	6918.9	6110.4	4052.6	2319.6	1610.4	1487.8	1348.7	1192.9	1037.2	964.3	957.6
42.5°	7909.7	6779.7	3817.3	1868.9	1355.3	1335.4	1209.5	1030.5	891.4	838.4	841.7
45°	8714.9	7353.0	3578.7	1501.1	1166.4	1186.3	1076.9	907.9	811.8	768.8	768.8
47.5°	9430.6	7740.7	3320.3	1239.3	990.8	1037.2	941.1	841.7	758.8	725.7	719.1
50°	10119.9	8135.0	3061.8	1004.0	845.0	891.4	881.4	801.9	735.6	695.9	699.2
52.5°	10550.7	8198.0	2733.8	821.8	738.9	792.0	825.1	752.2	679.3	656.1	649.5
55°	10023.8	7386.1	2120.7	676.0	626.3	695.9	758.8	676.0	619.7	579.9	576.6
56°	9314.7	6604.1	1772.8	623.0	593.1	669.4	735.6	646.2	583.2	560.0	543.4
57.5°	7886.5	5404.6	1308.9	553.4	550.1	623.0	699.2	616.3	543.4	523.6	523.6
60°	4917.5	3041.9	792.0	463.9	477.2	553.4	629.6	550.1	483.8	483.8	493.7
62.5°	2240.0	1265.8	480.5	394.3	410.9	477.2	560.0	497.0	460.6	497.0	503.7
65°	762.1	546.8	347.9	314.8	324.7	394.3	480.5	503.7	500.4	523.6	536.8
67.5°	427.5	351.2	291.6	261.8	255.2	291.6	394.3	503.7	483.8	473.9	480.5
70°	361.2	298.2	258.5	232.0	222.0	235.3	304.9	381.1	341.3	331.4	324.7
72.5°	291.6	248.5	225.3	208.8	178.9	152.4	139.2	145.8	162.4	172.3	188.9
75°	205.4	188.9	188.9	169.0	129.2	96.1	76.2	63.0	43.1	29.8	33.1
77.5°	116.0	116.0	119.3	102.7	82.8	63.0	46.4	33.1	16.6	6.6	3.3
80°	79.5	86.2	92.8	82.8	69.6	56.3	39.8	23.2	9.9	0.0	0.0
82.5°	79.5	89.5	96.1	82.8	69.6	53.0	39.8	23.2	9.9	3.3	0.0
85°	16.6	19.9	23.2	26.5	39.8	39.8	29.8	19.9	9.9	3.3	0.0
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	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)