

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: P531363

Luminaire Tested: **GALN-SA6C-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531363
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-SA6C-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 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: 18301 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

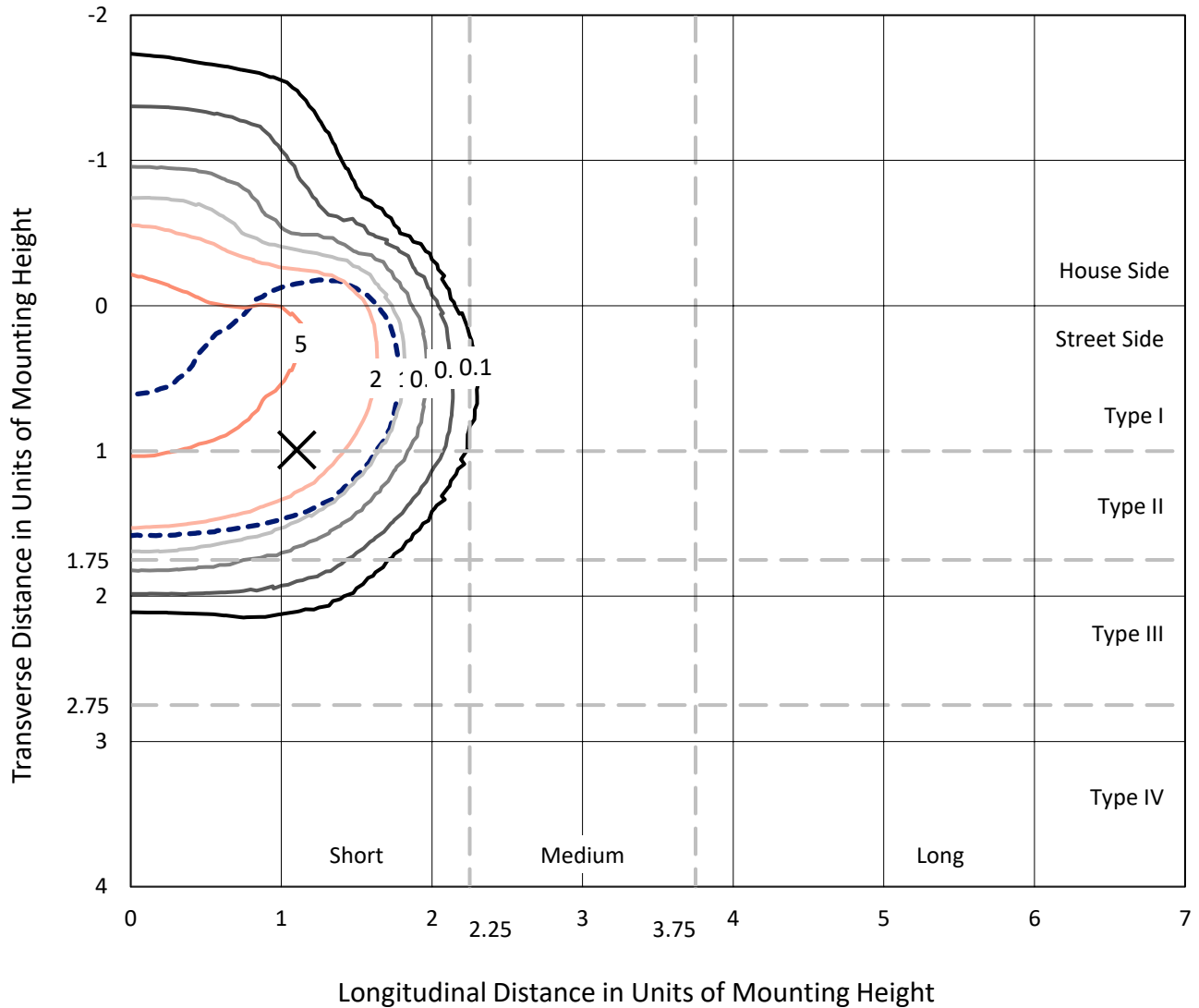
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

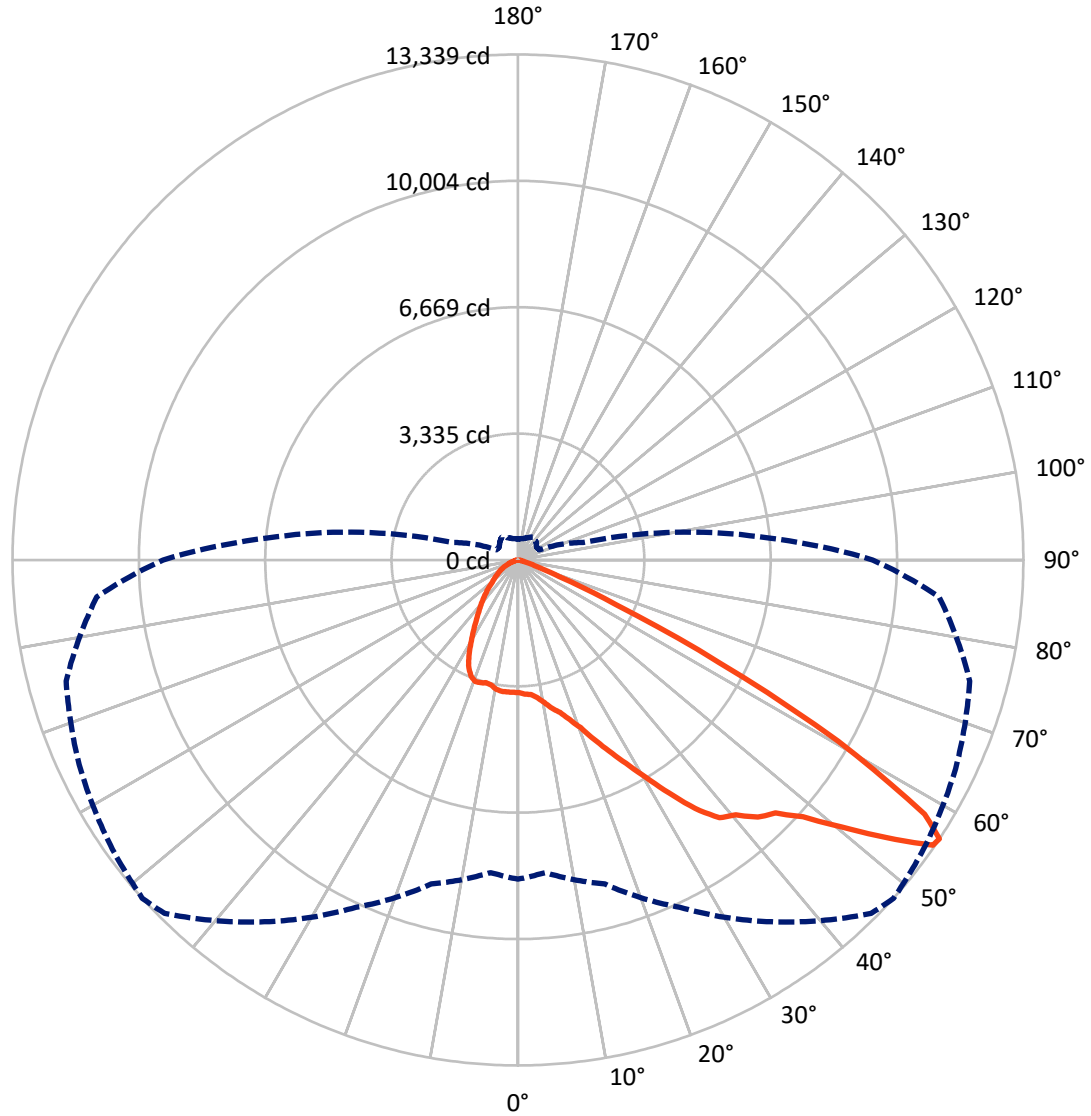
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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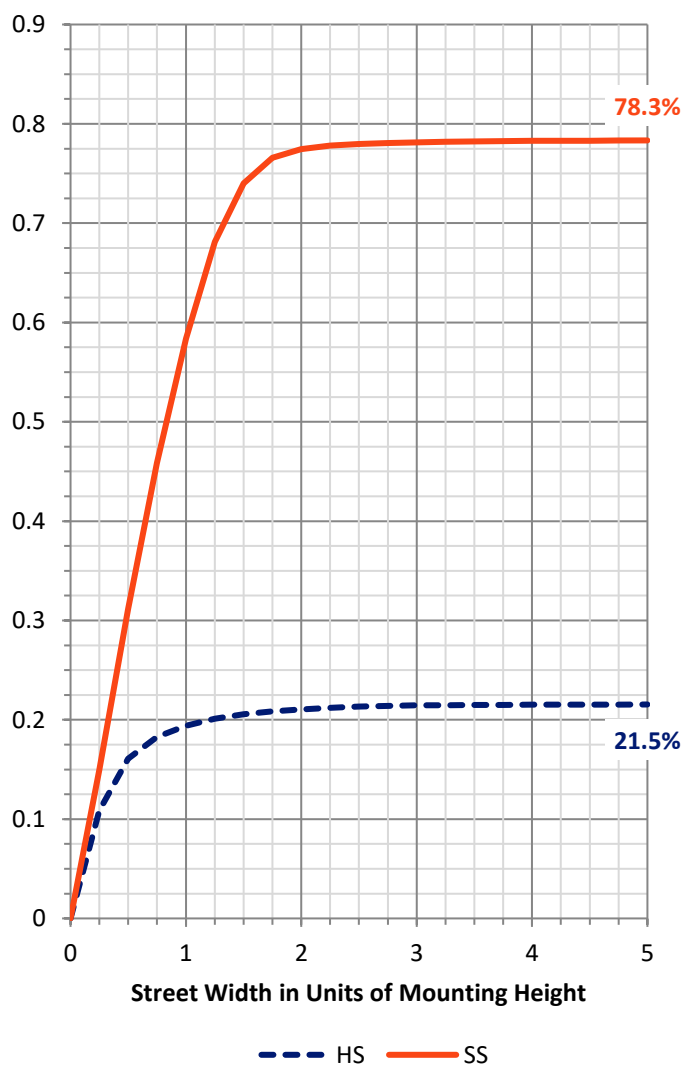
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3980.1	0.0	3980.1
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	14320.9	0.0	14320.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	18301.0	0.0	18301.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.5	1.9
10°-20°	1088.2	5.9
20°-30°	1973.7	10.8
30°-40°	3100.3	16.9
40°-50°	4522.9	24.7
50°-60°	5449.2	29.8
60°-70°	1595.5	8.7
70°-80°	202.4	1.1
80°-90°	28.4	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°	18301.0	100.0
0°-180°	18301.0	100.0

Coefficient of Utilization

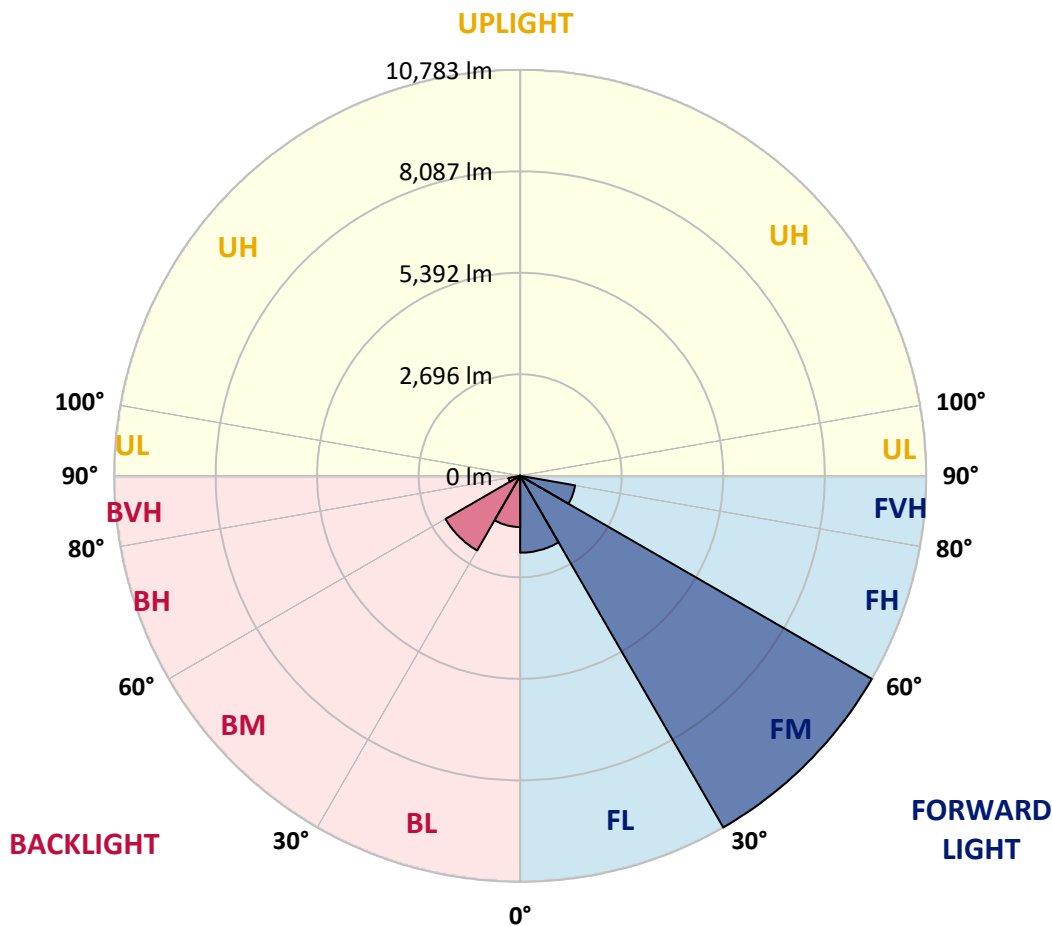


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2042.0	11.2			
FM (30°-60°)	10783.0	58.9			
FH (60°-80°)	1481.6	8.1			G1/1800
FVH (80°-90°)	14.2	0.1			G1/100
BL (0°-30°)	1360.4	7.4	B3/2500		
BM (30°-60°)	2289.4	12.5	B2/2500		
BH (60°-80°)	316.3	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°	3495.5	3495.5	3495.5	3495.5	3495.5	3495.5	3495.5	3495.5	3495.5	3495.5	3495.5
2.5°	3558.8	3542.1	3542.1	3515.5	3545.5	3532.2	3542.1	3508.8	3542.1	3492.2	3532.2
5°	3575.5	3578.8	3565.5	3582.1	3582.1	3602.1	3568.8	3598.8	3615.5	3578.8	3562.1
7.5°	3662.1	3668.8	3665.4	3652.1	3678.8	3675.4	3672.1	3648.8	3655.4	3642.1	3622.1
10°	3832.1	3828.7	3845.4	3812.1	3792.1	3815.4	3822.1	3785.4	3758.7	3748.7	3685.4
12.5°	4078.6	4038.7	4015.3	3982.0	3992.0	3958.7	4018.7	3955.3	3942.0	3882.0	3818.7
15°	4278.6	4271.9	4275.2	4221.9	4161.9	4175.3	4175.3	4141.9	4122.0	4048.6	3958.7
17.5°	4688.4	4548.5	4578.5	4511.8	4461.8	4458.5	4428.5	4435.2	4381.9	4228.6	4092.0
20°	5008.3	4948.3	4901.7	4788.4	4711.8	4735.1	4721.8	4688.4	4671.8	4471.8	4278.6
22.5°	5294.9	5314.9	5238.3	5208.3	5101.6	5111.6	5138.3	5108.3	4981.7	4775.1	4488.5
25°	5698.1	5674.8	5571.5	5534.8	5434.9	5471.5	5574.8	5551.5	5471.5	5098.3	4651.8
27.5°	6174.6	6094.6	6114.6	5948.0	5851.4	5954.7	6078.0	6194.6	5968.0	5478.2	4845.0
30°	6511.2	6427.9	6421.2	6414.5	6391.2	6511.2	6654.4	6761.1	6577.8	5858.0	5164.9
32.5°	6677.8	6697.8	6754.4	6734.4	6937.7	7184.3	7334.2	7487.5	7257.6	6477.8	5588.1
35°	7121.0	6994.3	7121.0	7134.3	7344.2	7867.4	8057.3	8423.9	8367.2	7354.2	6104.6
37.5°	7380.9	7370.9	7387.5	7514.2	7717.4	8363.9	8633.8	8917.0	8810.4	7880.7	6747.7
40°	7810.7	7837.4	7834.0	7930.7	8153.9	8737.1	8847.0	9077.0	9087.0	8610.5	7694.1
42.5°	8500.5	8393.9	8323.9	8423.9	8737.1	9060.3	9280.2	9233.6	9563.5	9496.8	8910.4
45°	9120.3	9183.6	9080.3	9246.9	9360.2	9533.5	9526.8	9626.8	10046.6	10363.2	9826.7
47.5°	9700.1	9740.1	9790.1	9903.4	10149.9	10176.6	10120.0	10076.6	10656.4	10983.0	10536.5
50°	10046.6	10083.3	10316.6	10519.8	10979.7	11039.6	11073.0	10963.0	11356.2	11392.9	11206.3
52.5°	9953.3	9993.3	10319.9	10989.7	11722.8	12272.6	12172.6	11986.0	11962.7	12106.0	11826.0
55°	9127.0	9090.3	9540.1	10583.1	11956.0	13275.6	13288.9	13092.3	12715.8	12619.1	11732.7
56°	8423.9	8280.6	8853.7	10113.3	11656.1	13188.9	13338.9	13128.9	12775.7	12342.5	11156.3
57.5°	6901.0	7037.6	7607.5	8650.4	10619.8	12565.8	12652.4	12602.5	12335.9	11609.5	9816.7
60°	3805.4	4045.3	4548.5	5824.7	7560.8	9643.4	9713.4	10120.0	10169.9	8890.4	6754.4
62.5°	1616.1	1589.5	2112.6	3052.3	4305.2	5821.4	5951.3	6367.9	6444.5	5125.0	3388.9
65°	656.4	693.1	956.3	1536.2	2275.9	2652.4	2835.7	2972.3	3225.6	2116.0	1249.6
67.5°	433.2	429.9	563.1	876.4	1226.3	1182.9	1182.9	1249.6	1156.3	863.0	539.8
70°	309.9	319.9	403.2	606.5	763.1	566.5	543.2	519.8	589.8	569.8	436.5
72.5°	203.3	216.6	269.9	363.2	396.5	309.9	309.9	373.2	486.5	459.8	356.5
75°	133.3	136.6	166.6	209.9	196.6	159.9	176.6	249.9	353.2	339.9	253.2
77.5°	90.0	93.3	113.3	136.6	110.0	90.0	96.6	126.6	173.3	173.3	133.3
80°	33.3	36.7	46.7	43.3	50.0	63.3	70.0	86.6	103.3	103.3	90.0
82.5°	0.0	3.3	10.0	23.3	36.7	50.0	56.6	66.6	76.6	86.6	83.3
85°	0.0	3.3	10.0	16.7	26.7	30.0	33.3	23.3	20.0	20.0	16.7
87.5°	0.0	0.0	3.3	3.3	3.3	3.3	3.3	3.3	6.7	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°	3495.5	3495.5	3495.5	3495.5	3495.5	3495.5	3495.5	3495.5	3495.5	3495.5	3495.5
2.5°	3495.5	3492.2	3492.2	3482.2	3502.2	3492.2	3498.8	3495.5	3452.2	3485.5	3462.2
5°	3532.2	3555.5	3518.8	3512.2	3485.5	3495.5	3495.5	3462.2	3492.2	3488.8	3482.2
7.5°	3625.5	3585.5	3545.5	3505.5	3498.8	3488.8	3452.2	3438.9	3462.2	3435.5	3475.5
10°	3665.4	3672.1	3612.1	3558.8	3508.8	3438.9	3388.9	3358.9	3322.2	3362.2	3385.5
12.5°	3848.7	3782.1	3678.8	3595.5	3425.5	3355.5	3305.6	3292.2	3355.5	3368.9	3345.5
15°	3912.0	3902.0	3768.7	3582.1	3405.5	3322.2	3332.2	3305.6	3312.2	3278.9	3285.6
17.5°	4042.0	3928.7	3772.1	3538.8	3402.2	3382.2	3322.2	3215.6	3155.6	3129.0	3152.3
20°	4185.3	4075.3	3848.7	3555.5	3432.2	3378.9	3182.3	3052.3	2929.0	2862.4	2865.7
22.5°	4311.9	4175.3	3815.4	3562.1	3458.8	3238.9	3002.3	2745.7	2592.5	2489.2	2492.5
25°	4465.2	4271.9	3828.7	3575.5	3388.9	3015.7	2675.8	2425.9	2242.6	2172.6	2195.9
27.5°	4551.8	4331.9	3902.0	3605.5	3205.6	2699.1	2332.6	2099.3	1992.7	1959.3	1956.0
30°	4811.7	4465.2	3992.0	3545.5	2899.0	2359.2	2019.3	1876.0	1772.7	1742.8	1749.4
32.5°	5198.3	4708.4	4108.6	3388.9	2585.8	2056.0	1816.1	1709.4	1612.8	1556.1	1549.5
35°	5521.5	5125.0	4231.9	3145.6	2222.6	1822.7	1672.8	1539.5	1392.9	1329.6	1312.9
37.5°	6137.9	5594.8	4205.3	2779.1	1876.0	1649.4	1519.5	1356.2	1229.6	1143.0	1133.0
40°	6957.7	6144.6	4075.3	2332.6	1619.5	1496.2	1356.2	1199.6	1043.0	969.7	963.0
42.5°	7954.0	6817.7	3838.7	1879.4	1362.9	1342.9	1216.3	1036.3	896.4	843.1	846.4
45°	8763.7	7394.2	3598.8	1509.5	1172.9	1192.9	1083.0	913.0	816.4	773.1	773.1
47.5°	9483.5	7784.1	3338.9	1246.3	996.3	1043.0	946.4	846.4	763.1	729.8	723.1
50°	10176.6	8180.6	3079.0	1009.7	849.7	896.4	886.4	806.4	739.8	699.8	703.1
52.5°	10609.8	8243.9	2749.1	826.4	743.1	796.4	829.7	756.4	683.1	659.8	653.1
55°	10080.0	7427.5	2132.6	679.8	629.8	699.8	763.1	679.8	623.1	583.1	579.8
56°	9366.9	6641.1	1782.7	626.5	596.5	673.1	739.8	649.8	586.5	563.1	546.5
57.5°	7930.7	5434.9	1316.2	556.5	553.1	626.5	703.1	619.8	546.5	526.5	526.5
60°	4945.0	3059.0	796.4	466.5	479.8	556.5	633.1	553.1	486.5	486.5	496.5
62.5°	2252.6	1272.9	483.2	396.5	413.2	479.8	563.1	499.8	463.2	499.8	506.5
65°	766.4	549.8	349.9	316.6	326.6	396.5	483.2	506.5	503.2	526.5	539.8
67.5°	429.9	353.2	293.2	263.2	256.6	293.2	396.5	506.5	486.5	476.5	483.2
70°	363.2	299.9	259.9	233.3	223.3	236.6	306.6	383.2	343.2	333.2	326.6
72.5°	293.2	249.9	226.6	209.9	179.9	153.3	140.0	146.6	163.3	173.3	189.9
75°	206.6	189.9	189.9	169.9	130.0	96.6	76.6	63.3	43.3	30.0	33.3
77.5°	116.6	116.6	120.0	103.3	83.3	63.3	46.7	33.3	16.7	6.7	3.3
80°	80.0	86.6	93.3	83.3	70.0	56.6	40.0	23.3	10.0	0.0	0.0
82.5°	80.0	90.0	96.6	83.3	70.0	53.3	40.0	23.3	10.0	3.3	0.0
85°	16.7	20.0	23.3	26.7	40.0	40.0	30.0	20.0	10.0	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)