

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: P531441

Luminaire Tested: **GALN-SA6D-727-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531441
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-SA6D-727-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA 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: 22910 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

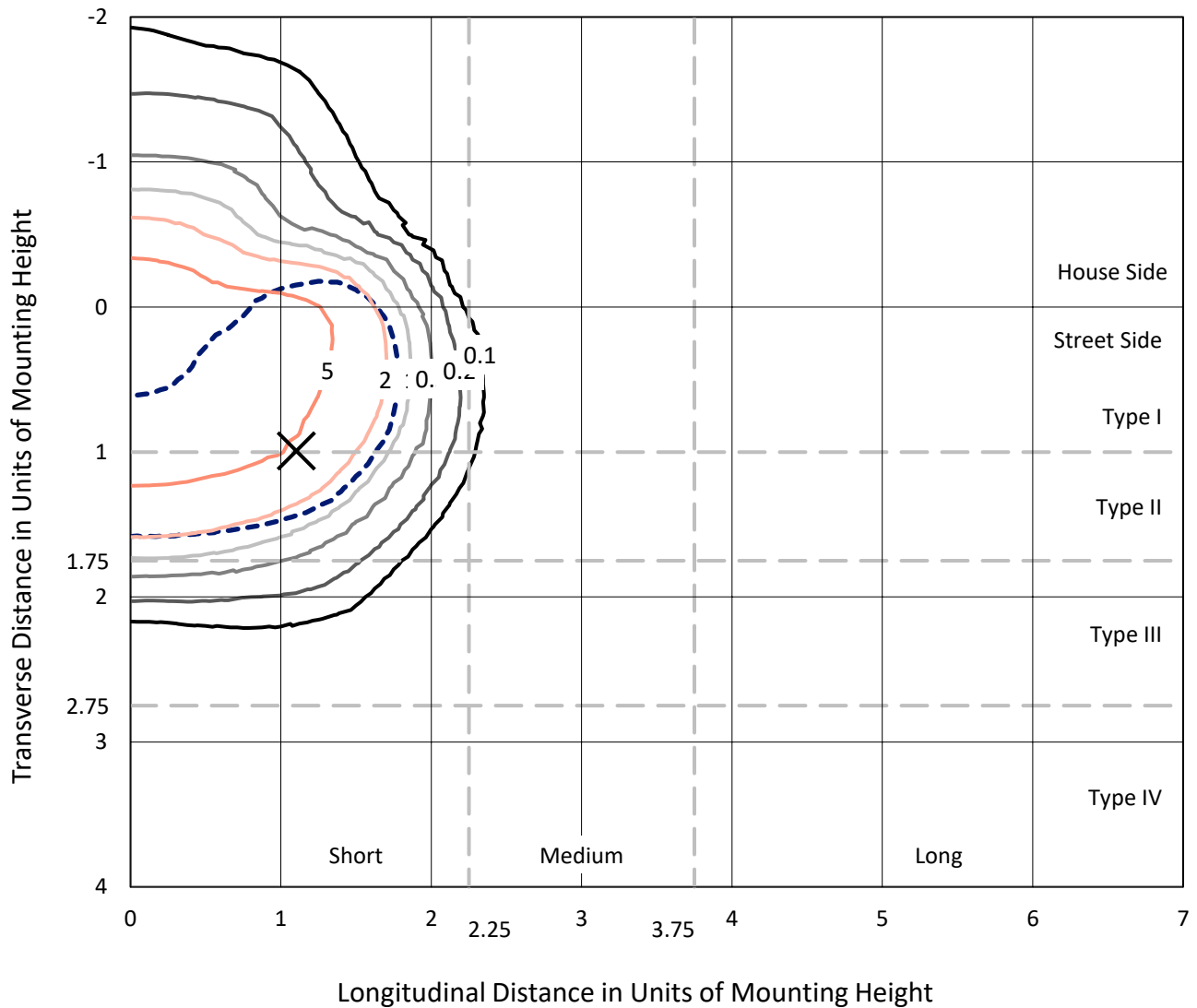
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

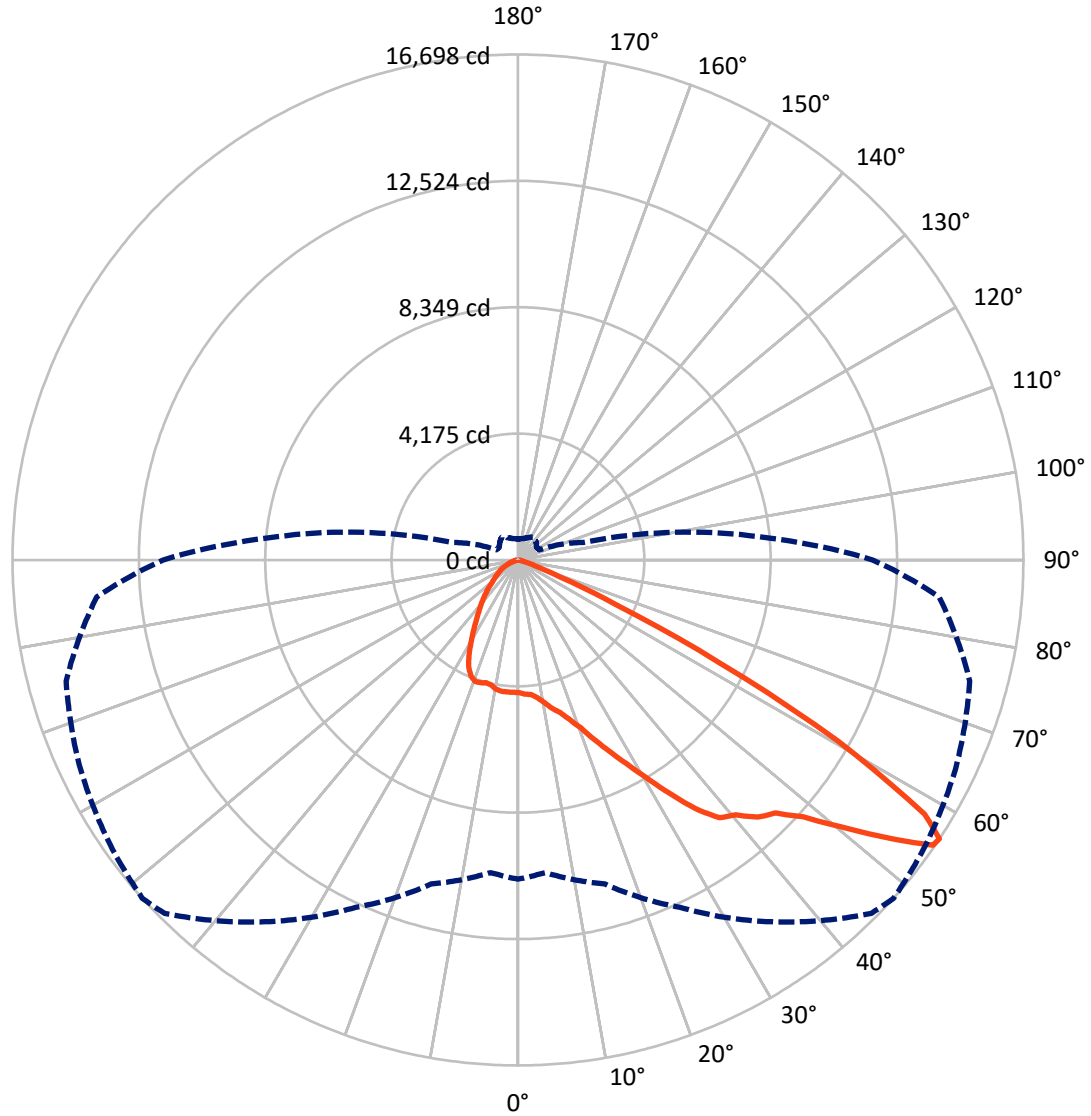
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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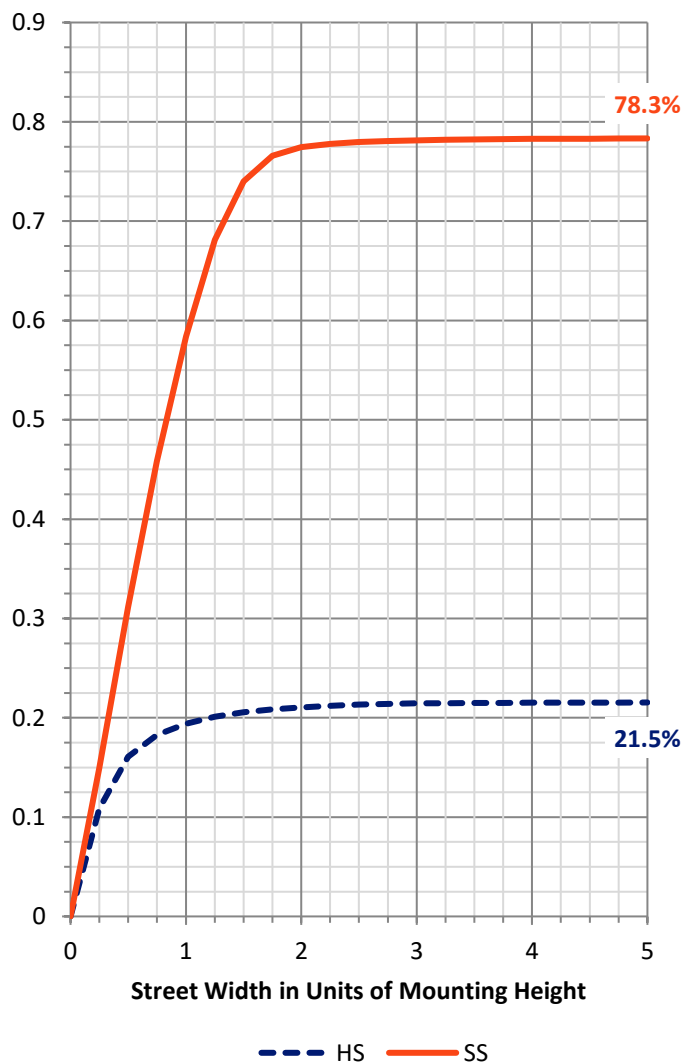
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4982.5	0.0	4982.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	17927.5	0.0	17927.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	22910.0	0.0	22910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.2	1.9
10°-20°	1362.2	5.9
20°-30°	2470.8	10.8
30°-40°	3881.2	16.9
40°-50°	5661.9	24.7
50°-60°	6821.5	29.8
60°-70°	1997.3	8.7
70°-80°	253.4	1.1
80°-90°	35.5	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°	22910.0	100.0
0°-180°	22910.0	100.0

Coefficient of Utilization

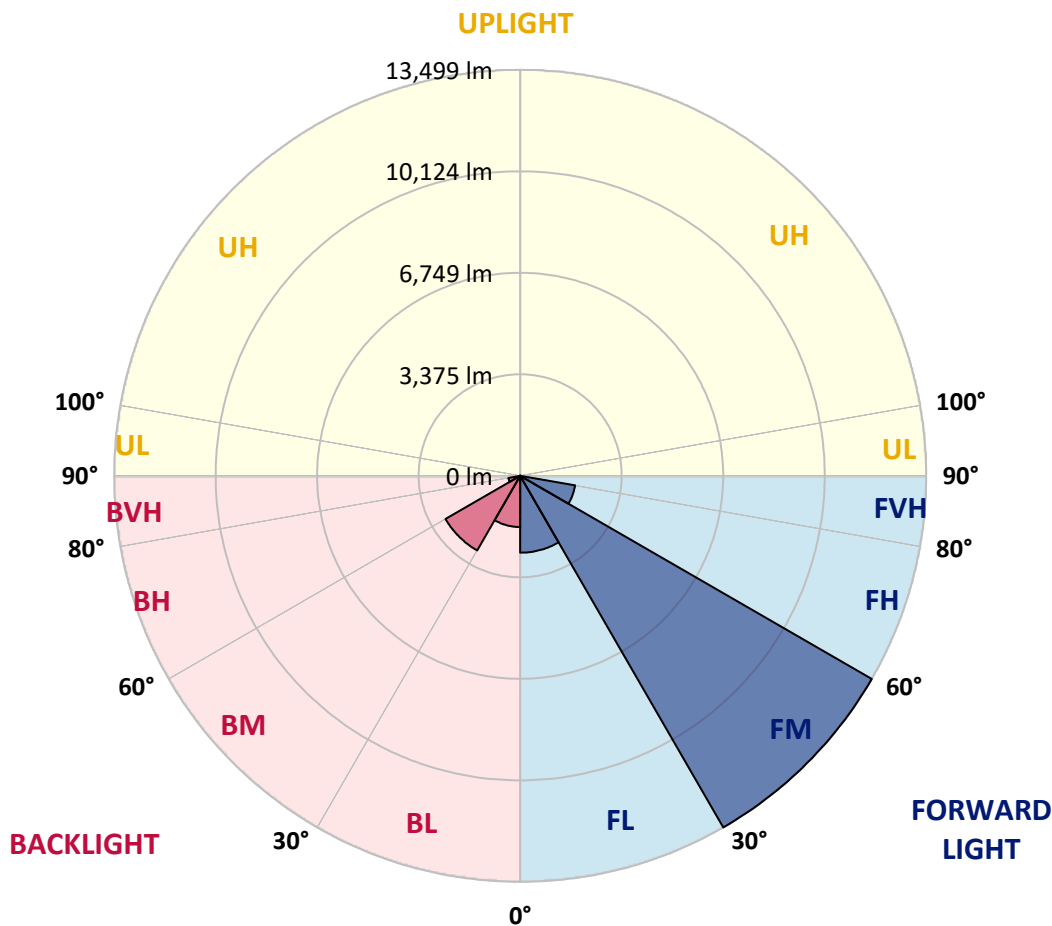


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2556.3	11.2			
FM (30°-60°)	13498.6	58.9			
FH (60°-80°)	1854.7	8.1			G2/5000
FVH (80°-90°)	17.8	0.1			G1/100
BL (0°-30°)	1703.0	7.4	B3/2500		
BM (30°-60°)	2865.9	12.5	B3/5000		
BH (60°-80°)	395.9	1.7	B1/500		G1/500
BVH (80°-90°)	17.7	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°	48°	55°	65°	75°	85°
0°	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8
2.5°	4455.1	4434.2	4434.2	4400.8	4438.4	4421.7	4434.2	4392.5	4434.2	4371.6	4421.7
5°	4475.9	4480.1	4463.4	4484.3	4484.3	4509.3	4467.6	4505.1	4526.0	4480.1	4459.2
7.5°	4584.4	4592.7	4588.6	4571.9	4605.2	4601.1	4596.9	4567.7	4576.0	4559.4	4534.3
10°	4797.1	4793.0	4813.8	4772.1	4747.1	4776.3	4784.6	4738.7	4705.4	4692.8	4613.6
12.5°	5105.8	5055.8	5026.6	4984.8	4997.4	4955.6	5030.7	4951.5	4934.8	4859.7	4780.4
15°	5356.1	5347.8	5351.9	5285.2	5210.1	5226.8	5226.8	5185.1	5160.0	5068.3	4955.6
17.5°	5869.2	5694.0	5731.5	5648.1	5585.5	5581.4	5543.8	5552.2	5485.4	5293.5	5122.5
20°	6269.6	6194.6	6136.2	5994.3	5898.4	5927.6	5910.9	5869.2	5848.3	5598.0	5356.1
22.5°	6628.4	6653.4	6557.5	6519.9	6386.4	6399.0	6432.3	6394.8	6236.3	5977.6	5618.9
25°	7133.1	7103.9	6974.6	6928.7	6803.6	6849.5	6978.8	6949.6	6849.5	6382.3	5823.3
27.5°	7729.6	7629.5	7654.6	7446.0	7325.0	7454.3	7608.7	7754.7	7471.0	6857.8	6065.2
30°	8151.0	8046.7	8038.3	8030.0	8000.8	8151.0	8330.3	8463.8	8234.4	7333.4	6465.7
32.5°	8359.5	8384.6	8455.5	8430.4	8684.9	8993.6	9181.3	9373.2	9085.4	8109.2	6995.5
35°	8914.3	8755.8	8914.3	8931.0	9193.8	9848.7	10086.5	10545.4	10474.4	9206.3	7642.0
37.5°	9239.7	9227.2	9248.0	9406.6	9661.0	10470.3	10808.2	11162.7	11029.2	9865.4	8447.1
40°	9777.8	9811.2	9807.0	9928.0	10207.5	10937.5	11075.1	11362.9	11375.5	10779.0	9631.8
42.5°	10641.3	10507.8	10420.2	10545.4	10937.5	11342.1	11617.4	11559.0	11972.0	11888.5	11154.4
45°	11417.2	11496.4	11367.1	11575.7	11717.5	11934.4	11926.1	12051.2	12576.8	12973.1	12301.5
47.5°	12143.0	12193.1	12255.6	12397.5	12706.1	12739.5	12668.6	12614.4	13340.2	13749.0	13190.0
50°	12576.8	12622.7	12914.7	13169.2	13744.8	13819.9	13861.6	13724.0	14216.2	14262.1	14028.5
52.5°	12460.0	12510.1	12918.9	13757.3	14675.1	15363.3	15238.2	15004.6	14975.4	15154.8	14804.4
55°	11425.5	11379.6	11942.8	13248.4	14967.1	16618.9	16635.6	16389.5	15918.1	15797.2	14687.6
56°	10545.4	10366.0	11083.5	12660.3	14591.6	16510.5	16698.2	16435.4	15993.2	15450.9	13965.9
57.5°	8639.0	8810.0	9523.4	10829.0	13294.3	15730.4	15838.9	15776.3	15442.6	14533.2	12289.0
60°	4763.8	5064.1	5694.0	7291.6	9465.0	12072.1	12159.7	12668.6	12731.2	11129.3	8455.5
62.5°	2023.1	1989.8	2644.7	3821.0	5389.5	7287.5	7450.2	7971.6	8067.5	6415.6	4242.3
65°	821.8	867.7	1197.2	1923.0	2849.1	3320.5	3549.9	3720.9	4037.9	2648.9	1564.3
67.5°	542.3	538.1	705.0	1097.1	1535.1	1480.9	1480.9	1564.3	1447.5	1080.4	675.8
70°	387.9	400.5	504.7	759.2	955.3	709.1	679.9	650.7	738.3	713.3	546.5
72.5°	254.5	271.1	337.9	454.7	496.4	387.9	387.9	467.2	609.0	575.7	446.3
75°	166.9	171.0	208.6	262.8	246.1	200.2	221.1	312.9	442.2	425.5	317.0
77.5°	112.6	116.8	141.8	171.0	137.7	112.6	121.0	158.5	216.9	216.9	166.9
80°	41.7	45.9	58.4	54.2	62.6	79.3	87.6	108.5	129.3	129.3	112.6
82.5°	0.0	4.2	12.5	29.2	45.9	62.6	70.9	83.4	95.9	108.5	104.3
85°	0.0	4.2	12.5	20.9	33.4	37.5	41.7	29.2	25.0	25.0	20.9
87.5°	0.0	0.0	4.2	4.2	4.2	4.2	4.2	4.2	8.3	4.2	4.2
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°	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8
2.5°	4375.8	4371.6	4371.6	4359.1	4384.2	4371.6	4380.0	4375.8	4321.6	4363.3	4334.1
5°	4421.7	4450.9	4405.0	4396.7	4363.3	4375.8	4375.8	4334.1	4371.6	4367.5	4359.1
7.5°	4538.5	4488.4	4438.4	4388.3	4380.0	4367.5	4321.6	4304.9	4334.1	4300.7	4350.8
10°	4588.6	4596.9	4521.8	4455.1	4392.5	4304.9	4242.3	4204.8	4158.9	4209.0	4238.2
12.5°	4818.0	4734.6	4605.2	4501.0	4288.2	4200.6	4138.0	4121.4	4200.6	4217.3	4188.1
15°	4897.2	4884.7	4717.9	4484.3	4263.2	4158.9	4171.4	4138.0	4146.4	4104.7	4113.0
17.5°	5059.9	4918.1	4722.0	4430.0	4259.0	4234.0	4158.9	4025.4	3950.3	3917.0	3946.2
20°	5239.3	5101.6	4818.0	4450.9	4296.6	4229.8	3983.7	3821.0	3666.7	3583.3	3587.4
22.5°	5397.8	5226.8	4776.3	4459.2	4329.9	4054.6	3758.4	3437.3	3245.4	3116.1	3120.2
25°	5589.7	5347.8	4793.0	4475.9	4242.3	3775.1	3349.7	3036.8	2807.4	2719.8	2749.0
27.5°	5698.2	5422.8	4884.7	4513.5	4012.9	3378.9	2920.0	2628.0	2494.5	2452.8	2448.6
30°	6023.5	5589.7	4997.4	4438.4	3629.1	2953.4	2527.9	2348.5	2219.2	2181.7	2190.0
32.5°	6507.4	5894.2	5143.4	4242.3	3237.0	2573.8	2273.4	2139.9	2019.0	1948.1	1939.7
35°	6912.0	6415.6	5297.7	3937.8	2782.3	2281.8	2094.1	1927.2	1743.7	1664.4	1643.5
37.5°	7683.8	7003.8	5264.3	3479.0	2348.5	2064.9	1902.2	1697.8	1539.3	1430.8	1418.3
40°	8709.9	7692.1	5101.6	2920.0	2027.3	1873.0	1697.8	1501.7	1305.7	1213.9	1205.5
42.5°	9957.2	8534.7	4805.5	2352.7	1706.1	1681.1	1522.6	1297.3	1122.1	1055.4	1059.5
45°	10970.8	9256.4	4505.1	1889.7	1468.3	1493.4	1355.7	1143.0	1022.0	967.8	967.8
47.5°	11871.9	9744.4	4179.8	1560.1	1247.3	1305.7	1184.7	1059.5	955.3	913.5	905.2
50°	12739.5	10240.8	3854.4	1263.9	1063.7	1122.1	1109.6	1009.5	926.1	876.0	880.2
52.5°	13281.8	10320.1	3441.4	1034.5	930.2	997.0	1038.7	946.9	855.1	825.9	817.6
55°	12618.5	9298.1	2669.7	851.0	788.4	876.0	955.3	851.0	780.1	730.0	725.8
56°	11725.9	8313.6	2231.7	784.2	746.7	842.6	926.1	813.4	734.2	705.0	684.1
57.5°	9928.0	6803.6	1647.7	696.6	692.5	784.2	880.2	775.9	684.1	659.1	659.1
60°	6190.4	3829.4	997.0	584.0	600.7	696.6	792.6	692.5	609.0	609.0	621.5
62.5°	2819.9	1593.5	604.9	496.4	517.3	600.7	705.0	625.7	579.8	625.7	634.1
65°	959.4	688.3	438.0	396.3	408.8	496.4	604.9	634.1	629.9	659.1	675.8
67.5°	538.1	442.2	367.1	329.5	321.2	367.1	496.4	634.1	609.0	596.5	604.9
70°	454.7	375.4	325.4	292.0	279.5	296.2	383.8	479.7	429.7	417.1	408.8
72.5°	367.1	312.9	283.7	262.8	225.3	191.9	175.2	183.5	204.4	216.9	237.8
75°	258.6	237.8	237.8	212.7	162.7	121.0	95.9	79.3	54.2	37.5	41.7
77.5°	146.0	146.0	150.2	129.3	104.3	79.3	58.4	41.7	20.9	8.3	4.2
80°	100.1	108.5	116.8	104.3	87.6	70.9	50.1	29.2	12.5	0.0	0.0
82.5°	100.1	112.6	121.0	104.3	87.6	66.7	50.1	29.2	12.5	4.2	0.0
85°	20.9	25.0	29.2	33.4	50.1	50.1	37.5	25.0	12.5	4.2	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	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)