

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: P533226

Luminaire Tested: **GALN-SA8C-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35307 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

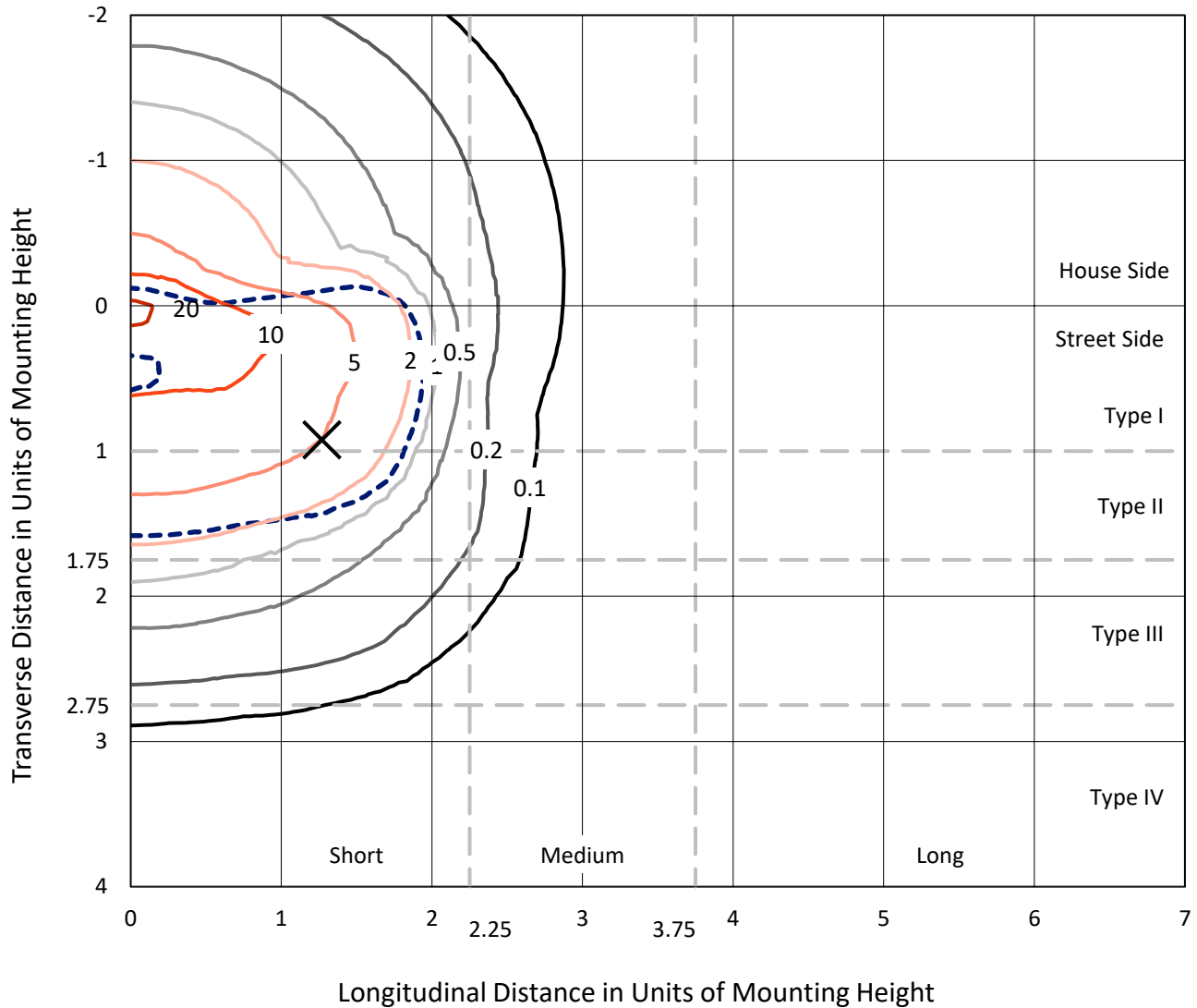
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

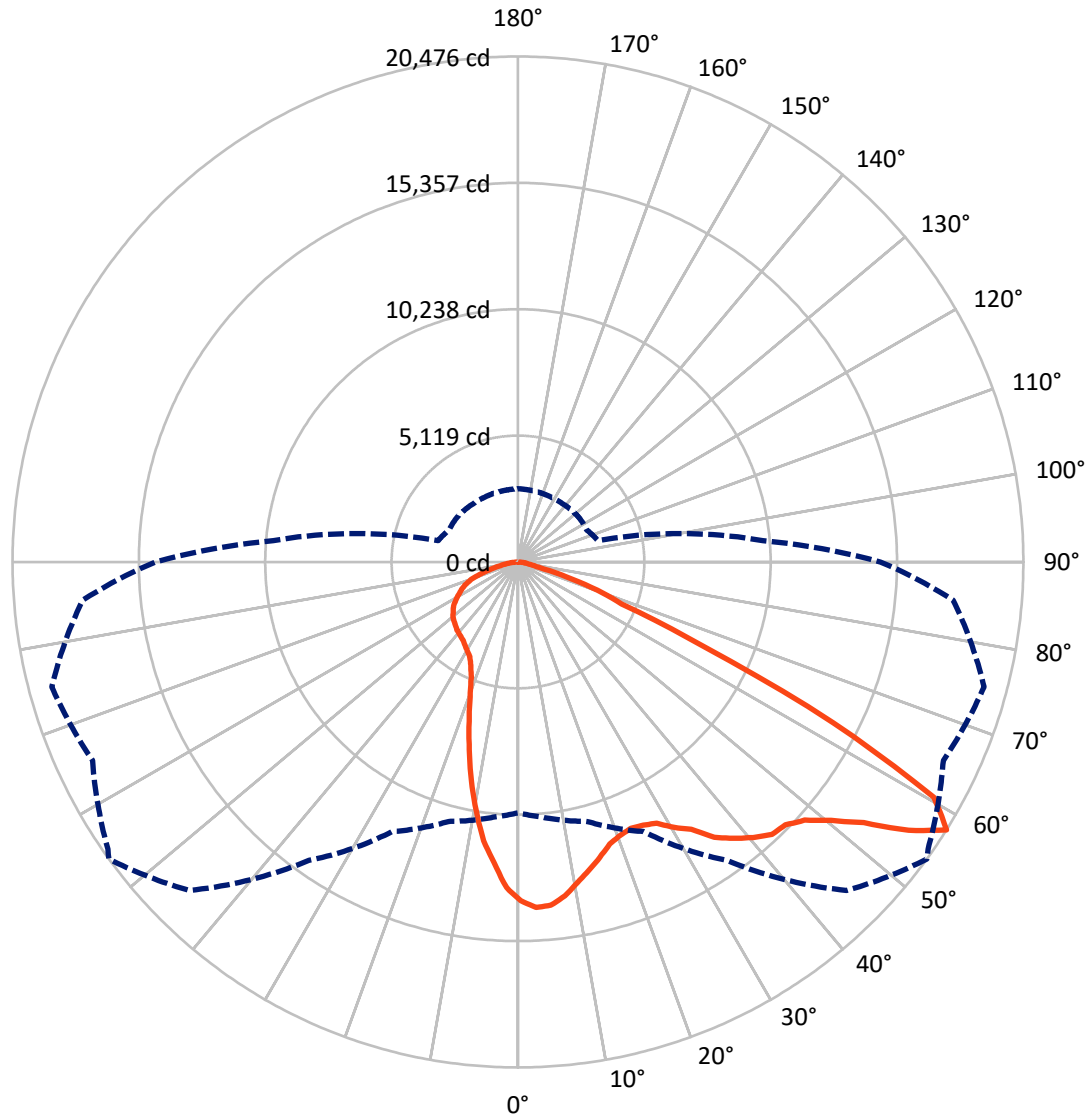
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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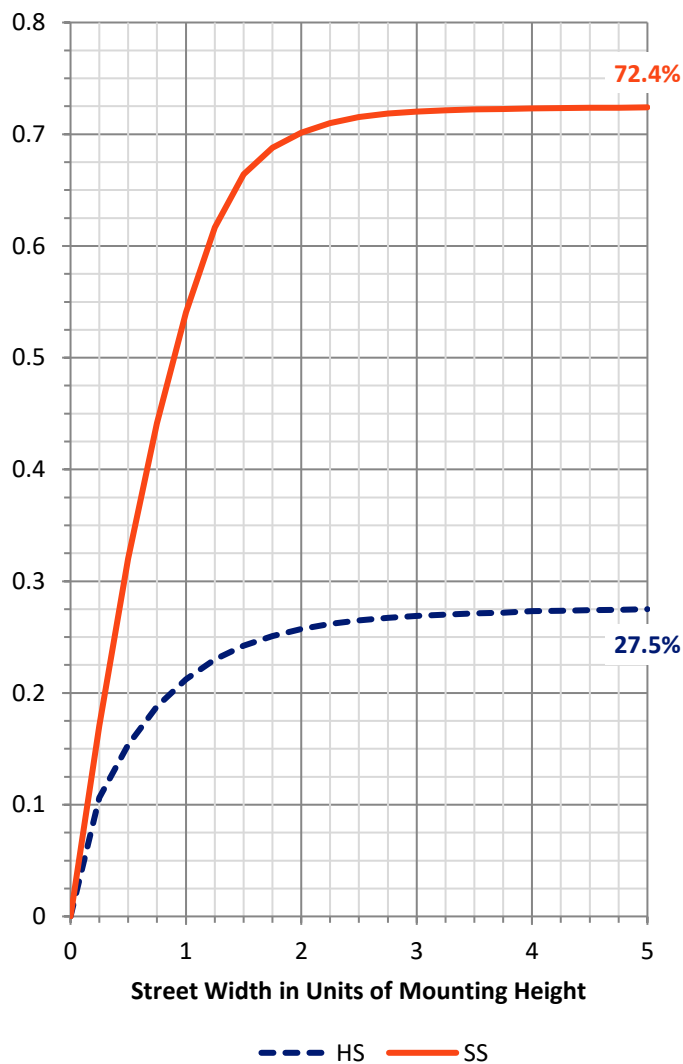
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9767.9	0.0	9767.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	25539.1	0.0	25539.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	35307.0	0.0	35307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1183.5	3.4
10°-20°	2740.3	7.8
20°-30°	3850.1	10.9
30°-40°	5382.5	15.2
40°-50°	7286.9	20.6
50°-60°	8875.7	25.1
60°-70°	4622.8	13.1
70°-80°	1184.5	3.4
80°-90°	180.7	0.5
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°	35307.0	100.0
0°-180°	35307.0	100.0

Coefficient of Utilization



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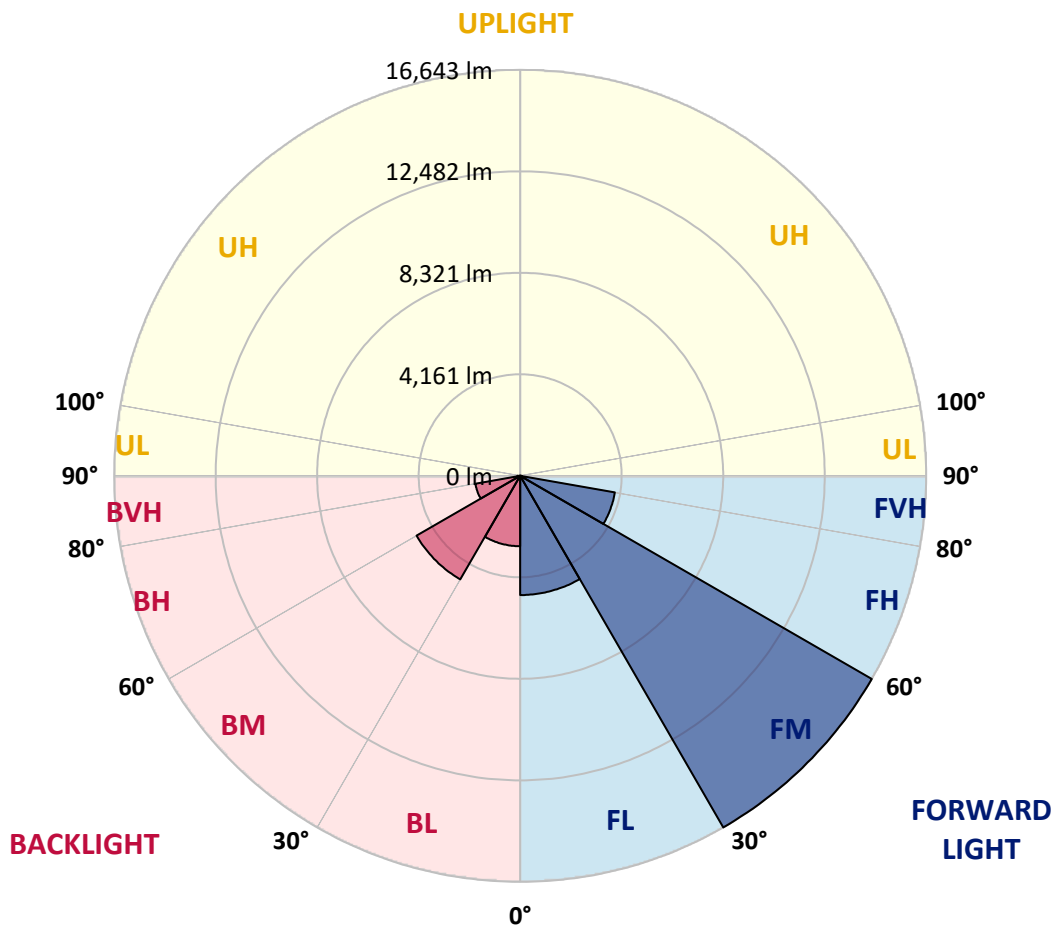
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4887.0	13.8			
FM (30°-60°)	16642.6	47.1			
FH (60°-80°)	3941.2	11.2			G2/5000
FVH (80°-90°)	68.3	0.2			G1/100
BL (0°-30°)	2886.9	8.2	B4/5000		
BM (30°-60°)	4902.4	13.9	B3/5000		
BH (60°-80°)	1866.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	112.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	13723.4	13723.4	13723.4	13723.4	13723.4	13723.4	13723.4	13723.4	13723.4	13723.4	13723.4
2.5°	14113.7	14059.3	14068.3	14140.9	14050.2	14013.9	14013.9	13836.9	13850.5	13728.0	13696.2
5°	13787.0	13659.9	13746.1	13855.0	13873.2	13909.5	13968.5	13923.1	13796.0	13664.4	13451.1
7.5°	12933.8	13047.2	13079.0	13156.2	13319.5	13469.3	13655.4	13528.3	13523.7	13392.1	13265.1
10°	12185.0	12116.9	12289.4	12402.8	12675.1	12924.7	13210.6	13197.0	13265.1	13115.3	12897.5
12.5°	11440.7	11386.3	11468.0	11726.6	12107.8	12470.9	12811.3	12684.2	13047.2	13020.0	12552.6
15°	10651.1	10691.9	10809.9	11050.4	11549.6	11985.3	12416.4	12421.0	12743.2	12852.1	12225.8
17.5°	10097.4	10052.0	10201.8	10560.3	11005.1	11527.0	12017.1	12116.9	12611.6	12675.1	12126.0
20°	9684.5	9748.0	9943.1	10124.7	10637.5	11268.3	11821.9	11858.2	12584.3	12756.8	11967.2
22.5°	9584.6	9548.3	9611.8	9906.8	10328.9	11014.1	11717.6	11853.7	12579.8	12729.6	11667.6
25°	9480.2	9598.2	9593.7	9888.7	10197.3	10809.9	11803.8	11953.5	12820.3	12870.3	11708.5
27.5°	9716.2	9702.6	9829.7	9852.4	10233.6	10864.4	11985.3	12098.8	13219.7	13178.8	11740.2
30°	9952.2	9884.1	9961.3	10229.0	10406.0	11177.5	12484.5	12475.4	13737.0	13709.8	11840.1
32.5°	10242.7	10210.9	10260.8	10496.8	10796.3	11595.0	12906.6	13174.3	14263.5	14435.9	12185.0
35°	10297.1	10428.7	10546.7	10864.4	11291.0	12271.2	13700.7	13923.1	14871.6	15411.6	12843.0
37.5°	10642.0	10691.9	10968.8	11531.5	11921.8	13174.3	14204.5	14345.2	15425.2	16037.9	13537.4
40°	11009.6	11068.6	11486.1	12076.1	12611.6	13764.3	14676.4	14721.8	15602.2	16518.9	13991.2
42.5°	11508.8	11563.3	11976.2	12716.0	13433.0	14268.0	15094.0	15143.9	15588.6	17072.6	14712.7
45°	12026.2	12157.8	12643.3	13482.9	14127.3	14858.0	15189.3	15393.5	15715.7	17567.3	15298.2
47.5°	12752.3	12874.8	13274.1	14095.6	14848.9	15375.3	15629.5	15829.1	16019.7	17998.4	15674.8
50°	13523.7	13546.4	14032.0	14776.3	15329.9	15960.7	16450.9	16518.9	16419.1	18497.6	16314.7
52.5°	14091.0	14163.6	14540.3	15266.4	16092.4	16868.4	17540.0	17612.6	17417.5	18683.6	16532.6
55°	13151.6	13110.8	13723.4	14690.1	16605.2	18220.8	19196.5	19250.9	18143.6	19260.0	17245.0
57.5°	10165.5	10360.6	10882.5	12048.8	14753.6	18819.8	20476.2	20281.1	19014.9	19550.4	17698.9
60°	7388.1	7342.8	7692.2	8472.8	11118.5	16219.4	19359.8	19559.5	18302.4	17621.7	14594.8
62.5°	6017.6	5954.1	5981.3	6008.5	7174.8	10764.5	14331.5	14327.0	14095.6	12666.0	9843.3
65°	4810.5	4960.2	4973.8	5178.1	5327.8	6430.6	8304.9	8749.6	7619.6	6249.1	4533.6
67.5°	3626.0	3571.5	3753.1	4479.2	4760.5	4642.5	4533.6	4583.6	3258.4	2350.8	2214.6
70°	2137.5	2114.8	2332.6	3122.3	3921.0	3689.5	3417.2	3421.8	2237.3	1642.8	1828.9
72.5°	1170.8	1166.3	1211.7	1583.8	2228.2	2314.5	2051.3	2114.8	1334.2	1329.7	1429.5
75°	653.5	639.9	626.3	698.9	803.3	848.6	866.8	875.9	916.7	1025.6	1066.5
77.5°	240.5	231.4	231.4	267.8	340.4	426.6	540.0	549.1	649.0	744.3	785.1
80°	81.7	90.8	122.5	167.9	226.9	304.1	367.6	376.7	458.4	521.9	535.5
82.5°	49.9	54.5	81.7	118.0	163.4	213.3	272.3	276.8	340.4	381.2	399.4
85°	22.7	27.2	45.4	72.6	104.4	140.7	145.2	145.2	140.7	145.2	136.1
87.5°	0.0	0.0	9.1	9.1	9.1	13.6	18.2	13.6	22.7	27.2	27.2
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°	13723.4	13723.4	13723.4	13723.4	13723.4	13723.4	13723.4	13723.4	13723.4	13723.4	13723.4
2.5°	13600.9	13551.0	13396.7	13260.5	13219.7	13038.2	12770.4	12802.2	12607.0	12697.8	12602.5
5°	13414.8	13246.9	12852.1	12684.2	12244.0	12044.3	11908.2	11567.8	11409.0	11377.2	11241.0
7.5°	12938.3	12833.9	12339.3	11885.5	11418.0	11018.7	10505.9	10156.4	9906.8	9838.8	9639.1
10°	12561.7	12330.2	11644.9	10955.1	10288.0	9593.7	8926.6	8404.7	8150.6	7855.6	7755.7
12.5°	12189.5	11840.1	10914.3	10029.4	9167.1	8291.2	7483.4	6848.1	6294.4	6162.8	6117.5
15°	11958.1	11350.0	10260.8	9194.3	7969.0	6825.4	6017.6	5600.1	5259.7	5119.1	5218.9
17.5°	11654.0	10946.1	9634.5	8214.1	6866.3	5813.4	5137.2	4878.5	4756.0	4769.6	4728.8
20°	11272.8	10564.9	8813.1	7324.6	5881.5	5041.9	4656.2	4560.9	4579.0	4610.8	4597.2
22.5°	11000.5	10102.0	8218.6	6417.0	5082.8	4615.3	4456.5	4388.4	4447.4	4474.6	4451.9
25°	10791.8	9707.1	7497.1	5613.7	4619.9	4374.8	4302.2	4297.6	4388.4	4424.7	4402.0
27.5°	10601.2	9339.6	6780.0	5001.1	4311.3	4188.7	4166.0	4220.5	4279.5	4315.8	4347.6
30°	10487.7	9058.2	6108.4	4488.3	4157.0	4098.0	4057.1	4107.0	4138.8	4175.1	4157.0
32.5°	10596.6	8858.5	5459.4	4197.8	4029.9	3970.9	4025.4	3993.6	4048.0	4079.8	4029.9
35°	10937.0	8681.5	4996.5	4043.5	3884.7	3907.4	3916.4	3902.8	3925.5	3898.3	3957.3
37.5°	11272.8	8618.0	4569.9	3911.9	3816.6	3816.6	3807.5	3780.3	3825.7	3816.6	3843.8
40°	11699.4	8658.8	4206.9	3771.2	3753.1	3744.0	3707.7	3703.1	3685.0	3689.5	3698.6
42.5°	12071.5	8749.6	3998.1	3680.5	3694.1	3712.2	3644.2	3589.7	3612.4	3567.0	3567.0
45°	12466.4	8831.3	3812.1	3616.9	3603.3	3598.8	3544.3	3512.5	3494.4	3498.9	3539.8
47.5°	13088.1	8949.3	3671.4	3530.7	3539.8	3471.7	3458.1	3417.2	3435.4	3462.6	3467.2
50°	13528.3	9198.9	3562.5	3430.9	3462.6	3417.2	3335.6	3317.4	3317.4	3362.8	3353.7
52.5°	13836.9	9548.3	3458.1	3321.9	3335.6	3299.2	3272.0	3231.2	3203.9	3267.5	3299.2
55°	14780.8	10129.2	3430.9	3231.2	3226.6	3190.3	3140.4	3099.6	3086.0	3095.0	3158.6
57.5°	14690.1	9947.7	3344.6	3072.3	3063.3	3013.3	2963.4	2949.8	2945.3	2954.3	2972.5
60°	11926.3	7347.3	2986.1	2890.8	2877.2	2868.1	2818.2	2763.7	2736.5	2763.7	2741.1
62.5°	7891.9	4919.4	2632.1	2673.0	2682.1	2659.4	2577.7	2523.2	2532.3	2564.1	2514.1
65°	3875.6	2890.8	2387.1	2496.0	2505.1	2441.5	2364.4	2300.9	2269.1	2296.3	2273.6
67.5°	2214.6	2210.1	2187.4	2300.9	2296.3	2232.8	2110.2	2055.8	2001.3	2010.4	1996.8
70°	1878.8	1915.1	1960.5	2028.6	2024.0	1951.4	1806.2	1765.3	1688.2	1679.1	1656.4
72.5°	1479.4	1543.0	1642.8	1692.7	1651.9	1561.1	1465.8	1397.8	1329.7	1288.8	1302.5
75°	1098.2	1189.0	1243.5	1275.2	1211.7	1161.8	1084.6	1002.9	921.2	884.9	871.3
77.5°	798.7	825.9	875.9	898.6	857.7	807.8	762.4	680.7	603.6	553.7	540.0
80°	558.2	576.3	612.7	612.7	612.7	590.0	531.0	449.3	399.4	354.0	344.9
82.5°	390.3	408.4	444.7	426.6	422.0	394.8	358.5	295.0	240.5	208.8	199.7
85°	136.1	149.8	181.5	217.8	231.4	226.9	204.2	163.4	127.1	104.4	95.3
87.5°	31.8	31.8	36.3	31.8	31.8	36.3	31.8	31.8	31.8	22.7	18.2
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)