

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: P533848

Luminaire Tested: **GALN-SA9B-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-740-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43722 lumens
Efficiency: N/A
Efficacy: 120.1 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

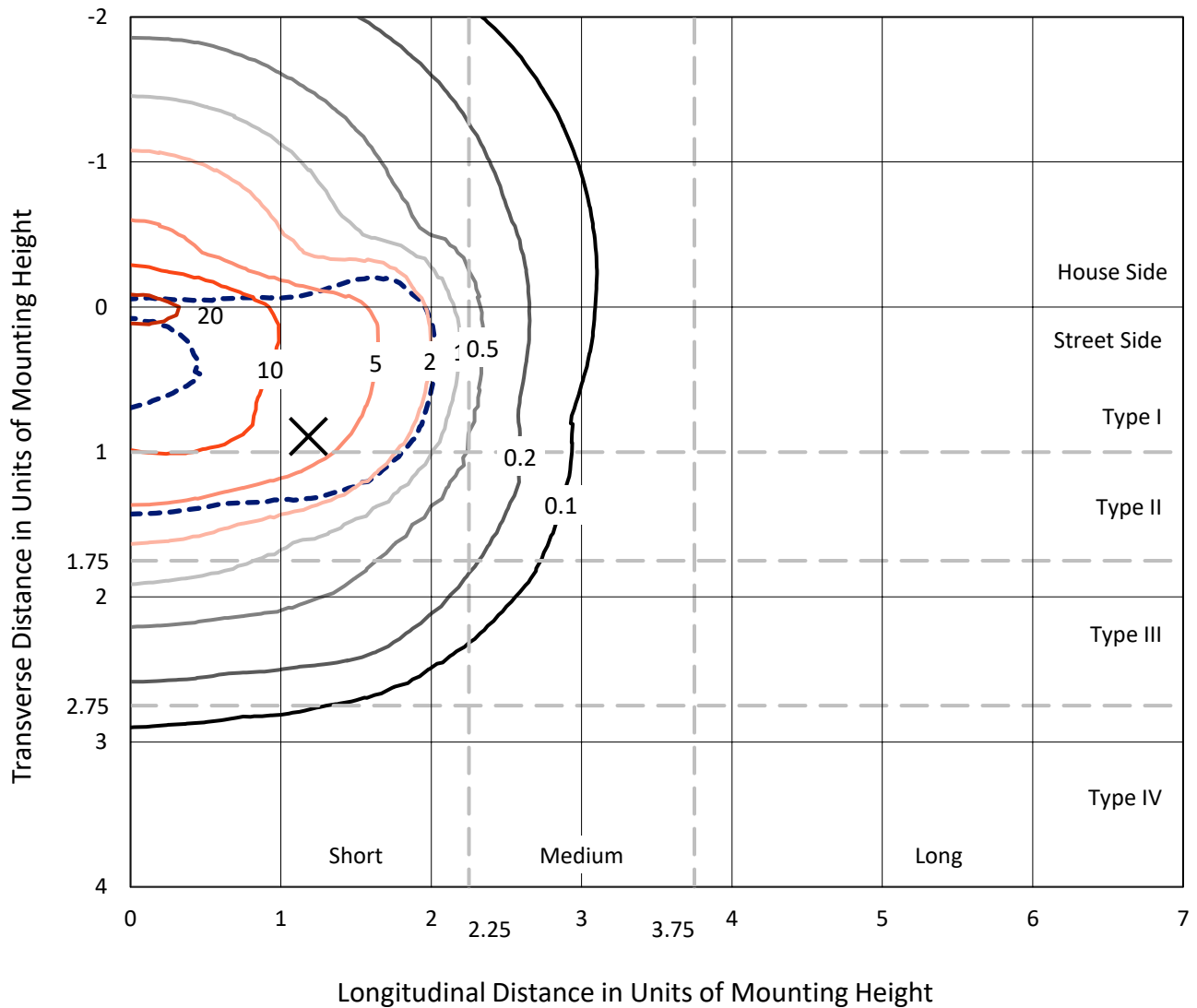
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

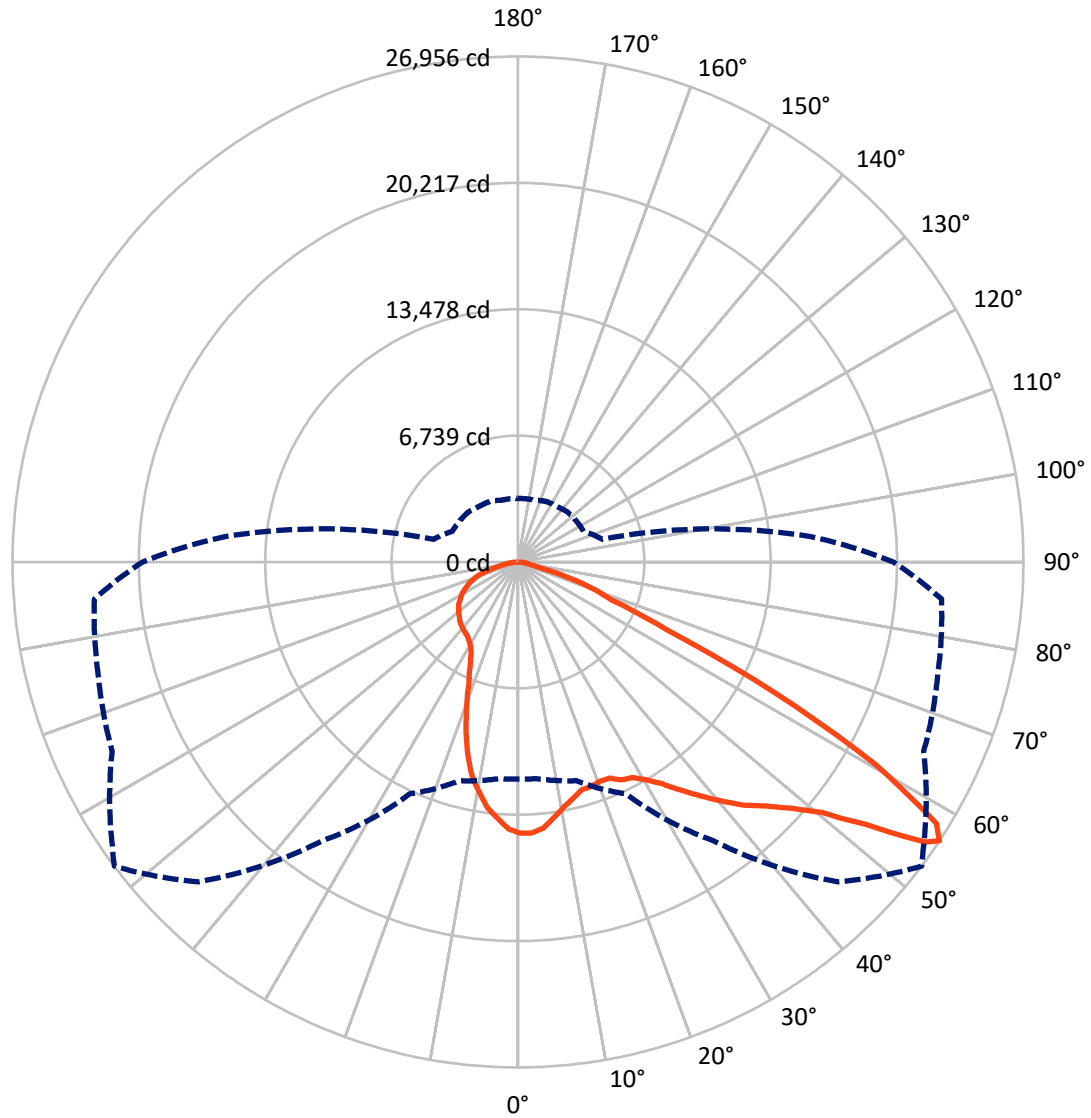
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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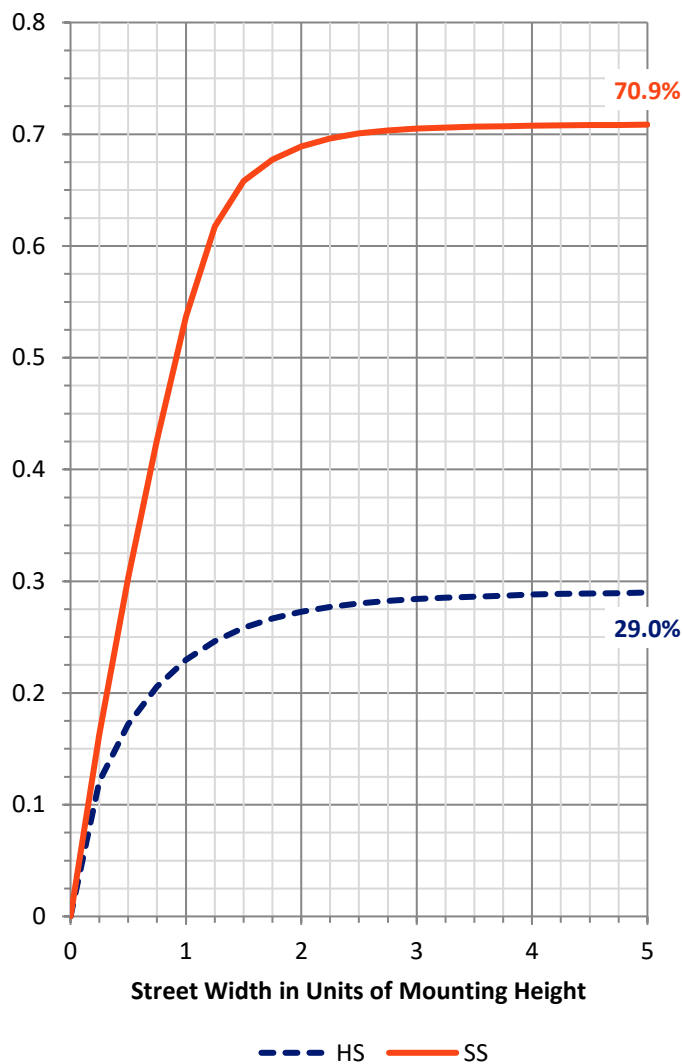
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12759.0	0.0	12759.0
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	30963.0	0.0	30963.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	43722.0	0.0	43722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1280.5	2.9
10°-20°	3198.3	7.3
20°-30°	4716.2	10.8
30°-40°	6738.5	15.4
40°-50°	9274.6	21.2
50°-60°	10960.1	25.1
60°-70°	5841.0	13.4
70°-80°	1481.8	3.4
80°-90°	231.1	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°	43722.0	100.0
0°-180°	43722.0	100.0

Coefficient of Utilization



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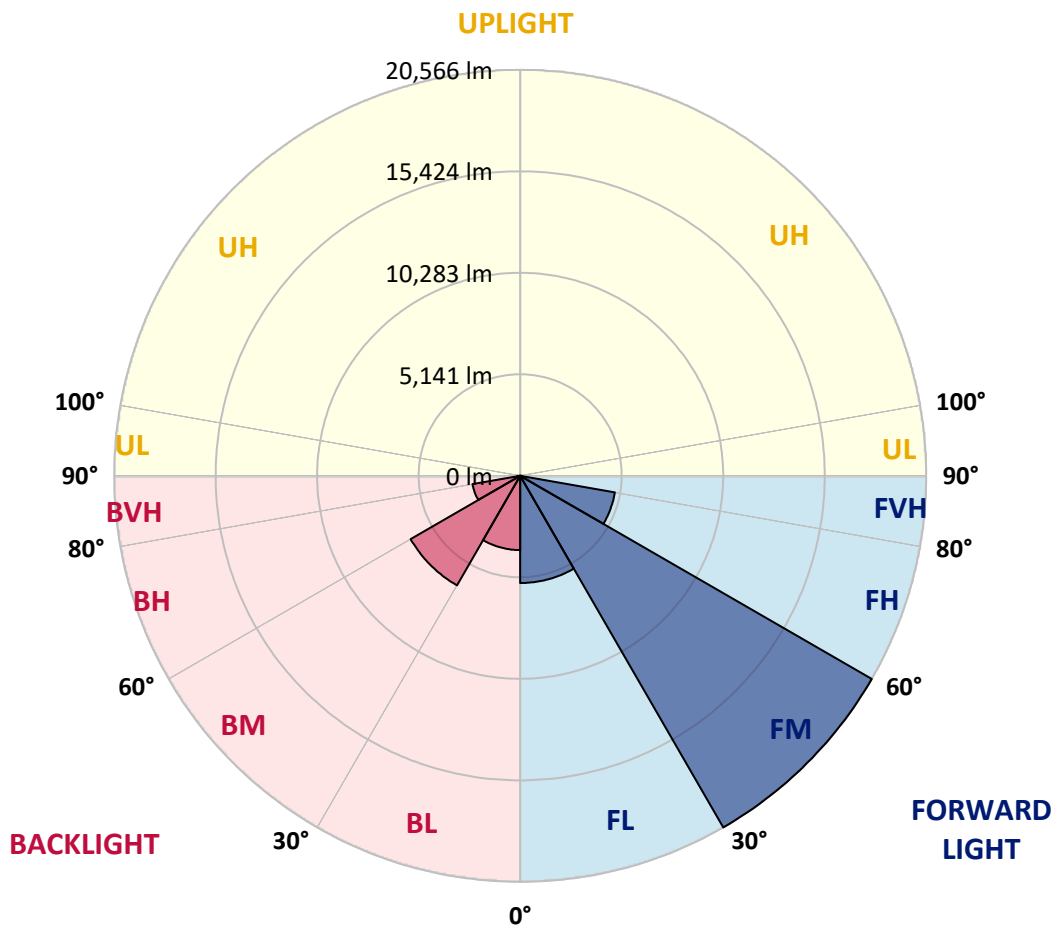
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5431.8	12.4			
FM (30°-60°)	20566.0	47.0			
FH (60°-80°)	4872.3	11.1			G2/5000
FVH (80°-90°)	92.9	0.2			G1/100
BL (0°-30°)	3763.2	8.6	B4/5000		
BM (30°-60°)	6407.2	14.7	B4/8500		
BH (60°-80°)	2450.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	138.2	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°	53°	55°	65°	75°	85°
0°	14465.0	14465.0	14465.0	14465.0	14465.0	14465.0	14465.0	14465.0	14465.0	14465.0	14465.0
2.5°	14285.5	14162.1	14235.0	14207.0	14436.9	14504.2	14470.6	14498.6	14627.6	14565.9	14436.9
5°	13348.8	13522.7	13556.3	13640.5	13775.1	14038.7	14246.2	14302.3	14364.0	14650.0	14622.0
7.5°	12496.3	12614.1	12552.4	12799.2	13090.8	13517.1	13769.5	13814.3	14380.8	14537.9	14655.7
10°	11957.9	11840.1	12120.5	12187.8	12518.7	13006.7	13309.6	13494.6	14010.7	14633.2	14706.1
12.5°	11458.7	11419.4	11587.7	11778.4	12148.5	12653.3	12961.8	13034.7	13831.2	14487.4	14829.5
15°	11088.5	11043.6	11211.9	11352.1	11784.0	12232.7	12625.3	12832.8	13634.9	14403.3	14723.0
17.5°	10796.8	10791.2	10886.6	11139.0	11582.1	11957.9	12591.6	12602.9	13533.9	14532.3	14812.7
20°	10780.0	10774.4	10791.2	11071.7	11475.5	11935.4	12485.1	12586.0	13533.9	14442.5	14818.3
22.5°	10920.2	10830.5	10931.4	11110.9	11402.6	11974.7	12524.3	12748.7	13859.2	14885.6	15070.7
25°	11144.6	11167.0	11223.1	11284.8	11453.1	12064.4	12872.1	13057.2	14240.6	15267.0	15418.4
27.5°	11554.0	11542.8	11565.2	11598.9	11744.7	12148.5	13012.3	13489.0	15037.1	15945.7	15794.2
30°	12154.2	12114.9	12204.6	12322.4	12187.8	12417.8	13477.8	13836.8	15777.4	16629.9	16214.9
32.5°	12698.2	12844.0	13012.3	13062.8	12900.1	12945.0	14094.8	14459.4	16394.4	17471.2	16730.9
35°	13376.9	13494.6	13719.0	13876.0	13848.0	13713.4	14936.1	15418.4	17286.2	18088.2	17274.9
37.5°	14038.7	14178.9	14549.1	15014.6	14756.6	14694.9	15833.5	16231.7	17561.0	18419.1	17673.2
40°	15104.4	15098.7	15738.1	15979.3	16209.3	16102.7	16764.5	16899.2	17706.8	18346.2	17684.4
42.5°	16355.1	16276.6	16927.2	17303.0	17600.3	17611.5	17734.9	17690.0	17774.1	17976.0	17566.6
45°	17544.2	17712.4	18368.6	19041.7	19339.0	19372.6	18553.7	18469.6	17891.9	17869.5	17342.2
47.5°	18996.8	19036.1	19574.5	20460.7	21150.6	20915.0	19613.8	19428.7	18407.9	18581.8	17718.0
50°	19081.0	19372.6	19855.0	20898.2	23018.3	22956.6	20987.9	20640.2	19238.0	19591.4	18766.9
52.5°	17319.8	17252.5	17824.6	19529.7	22878.1	24987.0	23265.1	22435.0	21021.6	20752.4	20466.3
55°	13197.4	13354.4	13859.2	15581.1	19866.2	25015.0	26366.7	25688.1	22928.6	22468.6	22137.7
56°	11576.5	11598.9	12075.6	13646.1	18127.5	24123.2	26955.6	26406.0	23876.4	23175.3	22670.6
57.5°	9596.6	9467.6	9714.4	10572.5	15300.7	22238.7	26310.6	26849.1	24987.0	23938.1	23237.0
60°	7555.0	7526.9	7426.0	7583.0	9669.5	16753.3	21902.2	23113.6	24874.8	23220.2	22255.5
62.5°	6169.6	6029.4	6231.3	6455.7	6719.3	10393.0	15390.4	16102.7	19748.4	18536.9	16719.7
65°	4784.3	4717.0	4969.4	5698.5	5855.5	6601.5	8766.5	9316.1	11660.6	11453.1	10084.5
67.5°	3292.3	3303.6	3522.3	4632.8	5429.3	5362.0	5367.6	5653.6	6085.5	4520.7	3937.3
70°	2086.5	2080.8	2198.6	2983.9	4369.2	4414.1	4189.7	4105.6	3892.5	2355.7	2495.9
72.5°	1340.5	1301.2	1362.9	1649.0	2260.3	2613.7	2692.2	2742.7	2254.7	1850.9	2007.9
75°	757.2	717.9	695.5	768.4	891.8	1032.0	1133.0	1166.6	1306.8	1402.2	1486.3
77.5°	230.0	207.5	252.4	336.5	443.1	594.5	723.5	746.0	880.6	992.7	1076.9
80°	101.0	112.2	157.0	224.3	314.1	420.7	510.4	544.0	633.8	717.9	740.4
82.5°	61.7	67.3	106.6	151.4	218.7	297.3	364.6	375.8	465.5	532.8	549.7
85°	22.4	28.0	56.1	89.7	140.2	190.7	190.7	207.5	190.7	190.7	207.5
87.5°	0.0	0.0	5.6	11.2	11.2	16.8	22.4	22.4	28.0	33.7	39.3
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°	14465.0	14465.0	14465.0	14465.0	14465.0	14465.0	14465.0	14465.0	14465.0	14465.0	14465.0
2.5°	14504.2	14476.2	14431.3	14268.7	14251.8	14201.3	13920.9	13876.0	13920.9	13786.3	13797.5
5°	14476.2	14560.3	14223.8	14061.1	13758.3	13539.5	13287.1	13158.1	12928.2	12782.3	12945.0
7.5°	14599.6	14565.9	14145.3	13791.9	13337.6	12782.3	12339.2	12086.9	11683.0	11570.8	11655.0
10°	14554.7	14375.2	13881.7	13416.1	12558.0	12070.0	11352.1	10656.6	10275.2	10078.9	10050.9
12.5°	14493.0	14442.5	13618.0	12816.0	11913.0	10886.6	9877.0	9220.8	8598.2	8329.0	8368.3
15°	14565.9	14139.7	13124.5	12109.3	10909.0	9562.9	8474.8	7627.9	7196.0	7022.2	7022.2
17.5°	14532.3	13993.8	12888.9	11318.5	9798.5	8205.6	7010.9	6500.5	6321.1	6321.1	6371.5
20°	14549.1	14089.2	12412.2	10527.6	8486.0	6910.0	6040.6	5855.5	5934.1	5962.1	5990.1
22.5°	14644.4	13775.1	11946.6	9658.3	7268.9	5911.6	5485.4	5491.0	5631.2	5782.6	5754.6
25°	14762.2	13651.7	11380.1	8794.5	6337.9	5423.7	5289.0	5272.2	5378.8	5457.3	5468.5
27.5°	14661.3	13438.6	10802.4	7717.6	5575.1	5098.4	5070.3	5081.5	5115.2	5272.2	5221.7
30°	14992.2	13500.3	10078.9	6814.6	5154.4	4991.8	4958.1	4941.3	4991.8	5036.7	4997.4
32.5°	15401.6	13281.5	9540.5	5945.3	4946.9	4913.3	4846.0	4823.5	4851.6	4806.7	4829.1
35°	15581.1	13242.3	8839.4	5322.7	4784.3	4756.2	4717.0	4711.3	4717.0	4677.7	4644.0
37.5°	15682.1	13427.3	8037.3	5036.7	4683.3	4711.3	4621.6	4610.4	4509.4	4531.9	4548.7
40°	15855.9	13141.3	7386.7	4761.8	4621.6	4565.5	4487.0	4470.2	4402.9	4363.6	4402.9
42.5°	15603.5	13057.2	6747.3	4644.0	4531.9	4470.2	4414.1	4318.7	4296.3	4262.6	4240.2
45°	15401.6	12574.8	6175.2	4498.2	4425.3	4391.6	4285.1	4184.1	4100.0	4133.6	4083.2
47.5°	15553.1	12406.6	5608.7	4374.8	4279.5	4240.2	4133.6	4055.1	3971.0	3931.7	3920.5
50°	16158.8	12720.6	5132.0	4285.1	4156.1	4133.6	3993.4	3903.7	3825.2	3797.1	3808.3
52.5°	17605.9	13578.8	4806.7	4100.0	4038.3	3937.3	3858.8	3746.6	3696.2	3606.4	3662.5
55°	19439.9	14975.4	4722.6	3926.1	3892.5	3802.7	3696.2	3612.0	3516.7	3443.8	3426.9
56°	20028.8	15642.8	4655.3	3858.8	3802.7	3752.3	3612.0	3561.6	3410.1	3393.3	3382.1
57.5°	20505.6	16231.7	4666.5	3729.8	3673.7	3628.9	3544.7	3421.3	3320.4	3258.7	3286.7
60°	19428.7	15194.1	4453.3	3533.5	3522.3	3438.2	3320.4	3264.3	3140.9	3068.0	3051.2
62.5°	14442.5	10314.5	3612.0	3281.1	3275.5	3185.8	3051.2	2989.5	2967.0	2866.1	2866.1
65°	8317.8	6466.9	3124.1	3073.6	3028.7	2939.0	2804.4	2753.9	2697.8	2664.2	2636.1
67.5°	3550.3	3354.0	2838.0	2832.4	2781.9	2669.8	2535.2	2456.6	2383.7	2316.4	2350.1
70°	2574.4	2613.7	2563.2	2535.2	2473.5	2333.2	2215.5	2120.1	2007.9	1963.1	1996.7
72.5°	2041.6	2125.7	2198.6	2204.2	2131.3	1968.7	1839.7	1710.7	1587.3	1525.6	1553.6
75°	1548.0	1604.1	1677.0	1693.8	1587.3	1475.1	1351.7	1217.1	1121.7	1048.8	1060.1
77.5°	1116.1	1104.9	1172.2	1161.0	1110.5	1032.0	919.8	796.4	689.9	622.6	628.2
80°	762.8	779.6	818.9	813.3	751.6	701.1	617.0	516.0	437.5	381.4	370.2
82.5°	532.8	560.9	594.5	566.5	516.0	465.5	403.8	330.9	269.2	224.3	213.1
85°	190.7	218.7	252.4	269.2	286.0	274.8	230.0	185.1	134.6	112.2	106.6
87.5°	39.3	44.9	50.5	50.5	50.5	44.9	39.3	39.3	33.7	16.8	16.8
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)