

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: P533902

Luminaire Tested: **GALN-SA9B-760-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533902
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-SA9B-760-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 800mA 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: 43641 lumens
Efficiency: N/A
Efficacy: 119.9 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

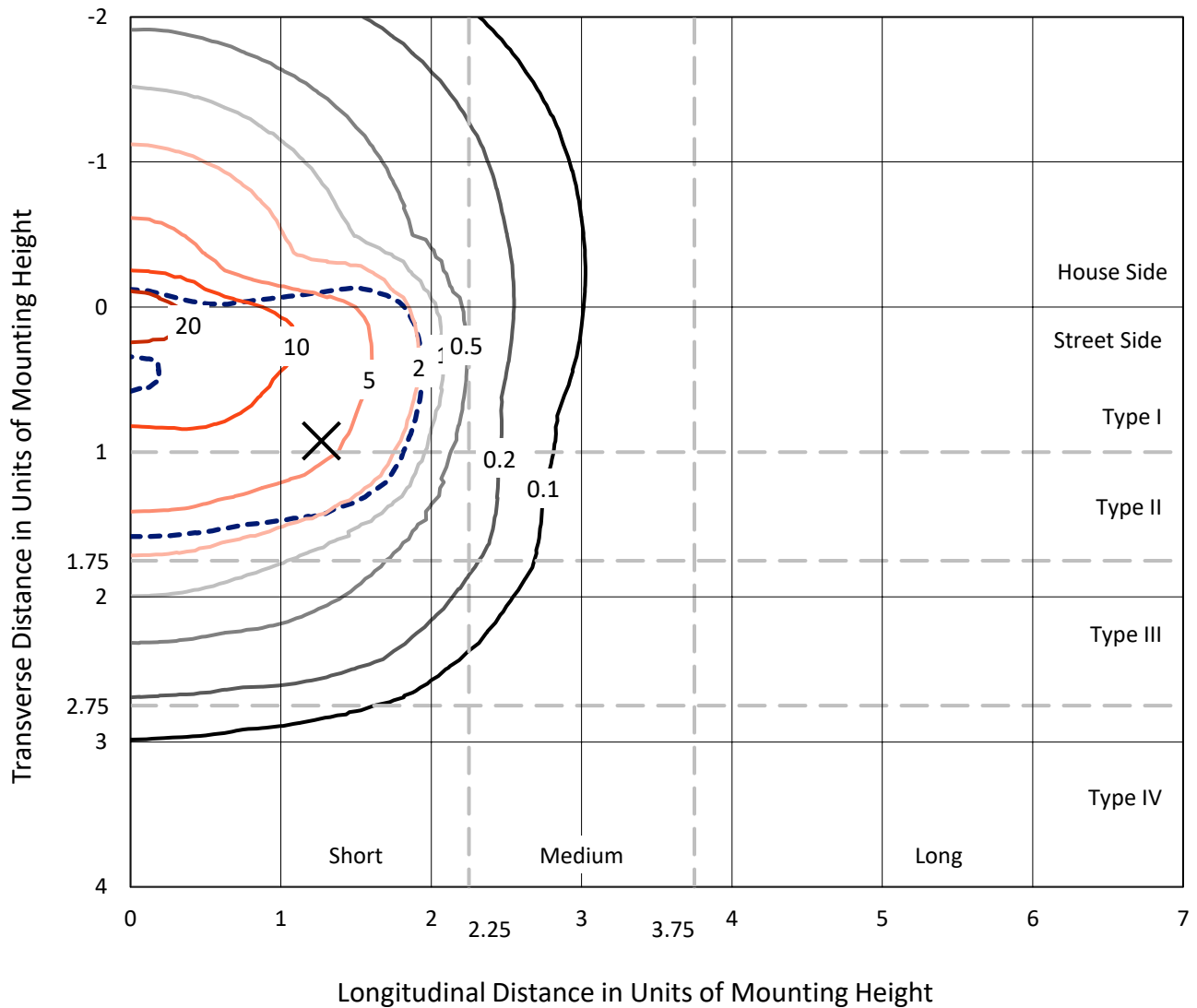
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

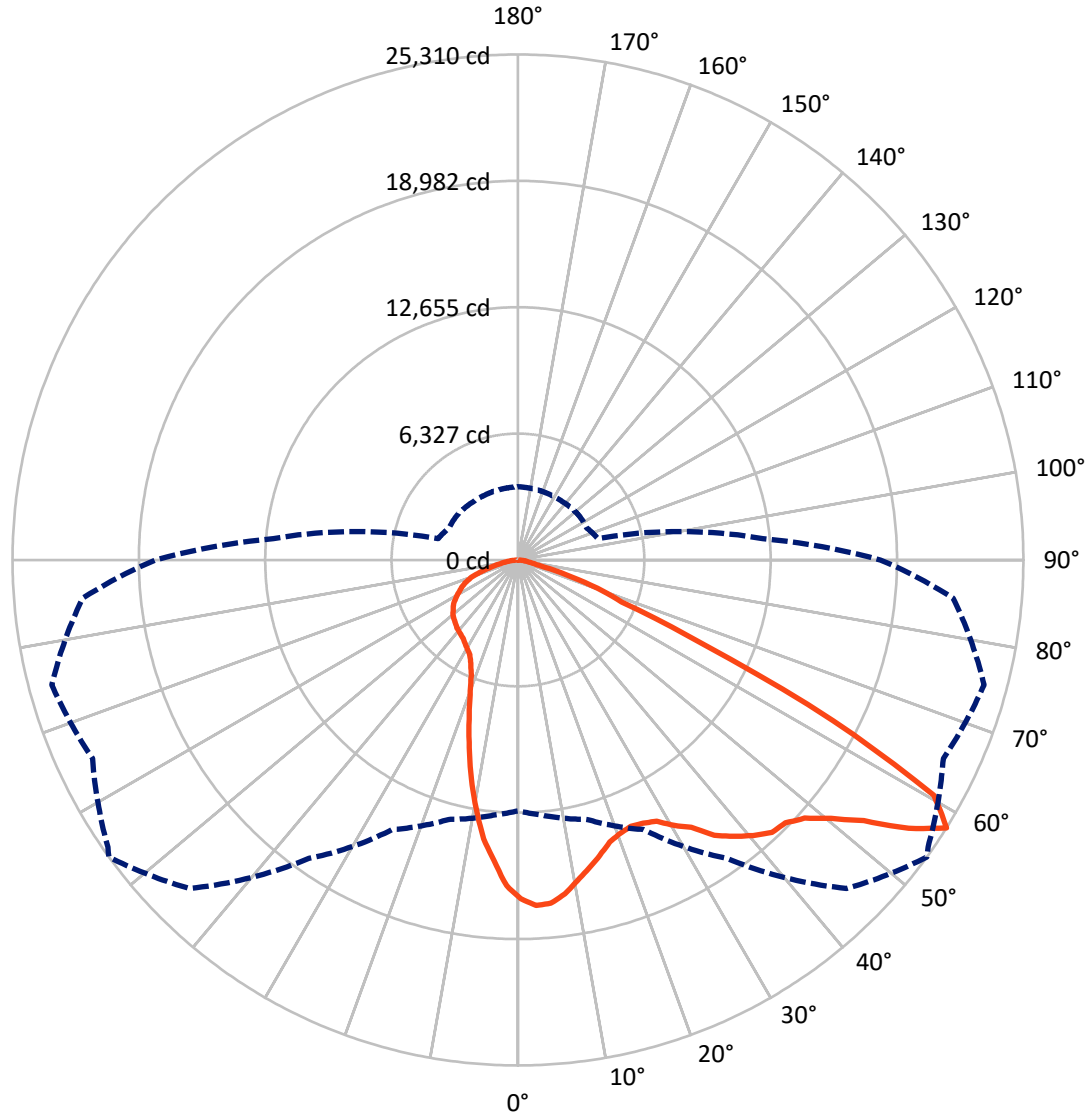
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.1 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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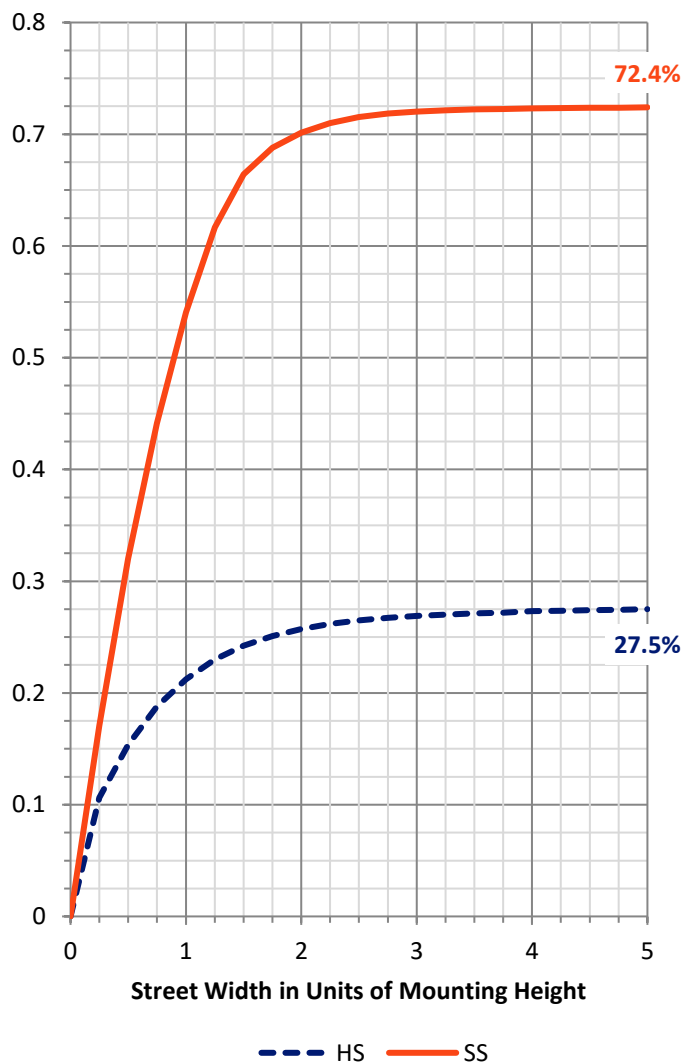
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12073.5	0.0	12073.5
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	31567.5	0.0	31567.5
	% Fixture	72.3	0.0	72.3
Total	Lumens	43641.0	0.0	43641.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1462.9	3.4
10°-20°	3387.1	7.8
20°-30°	4758.9	10.9
30°-40°	6653.0	15.2
40°-50°	9006.9	20.6
50°-60°	10970.8	25.1
60°-70°	5714.0	13.1
70°-80°	1464.2	3.4
80°-90°	223.3	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°	43641.0	100.0
0°-180°	43641.0	100.0

Coefficient of Utilization



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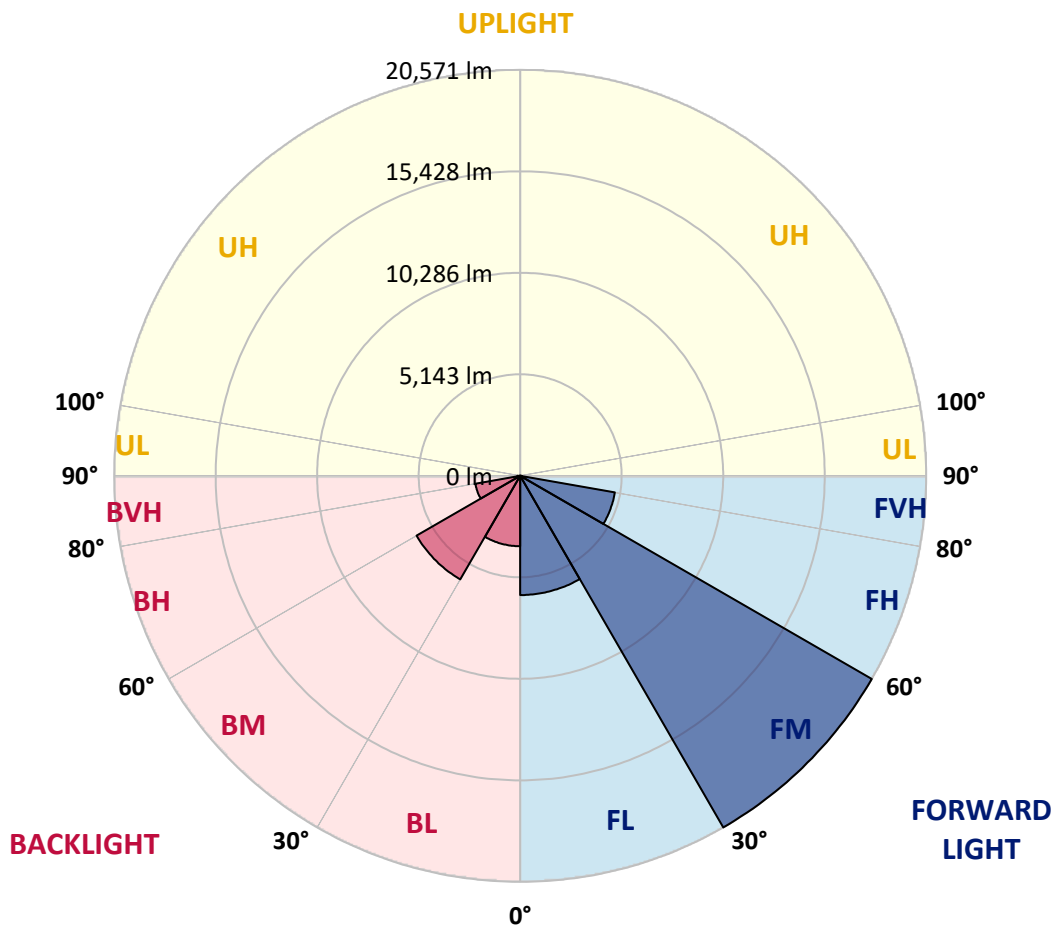
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6040.5	13.8			
FM (30°-60°)	20571.0	47.1			
FH (60°-80°)	4871.6	11.2			G2/5000
FVH (80°-90°)	84.4	0.2			G1/100
BL (0°-30°)	3568.3	8.2	B4/5000		
BM (30°-60°)	6059.6	13.9	B4/8500		
BH (60°-80°)	2306.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	139.0	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°	16962.8	16962.8	16962.8	16962.8	16962.8	16962.8	16962.8	16962.8	16962.8	16962.8	16962.8
2.5°	17445.2	17377.9	17389.1	17478.8	17366.6	17321.8	17321.8	17103.0	17119.8	16968.4	16929.1
5°	17041.3	16884.2	16990.8	17125.4	17147.9	17192.7	17265.7	17209.6	17052.5	16889.8	16626.2
7.5°	15986.7	16127.0	16166.2	16261.6	16463.5	16648.6	16878.6	16721.6	16715.9	16553.3	16396.2
10°	15061.2	14977.0	15190.2	15330.4	15667.0	15975.5	16328.9	16312.1	16396.2	16211.1	15941.9
12.5°	14141.2	14073.9	14174.9	14494.6	14965.8	15414.6	15835.3	15678.2	16127.0	16093.3	15515.5
15°	13165.2	13215.7	13361.5	13658.8	14275.9	14814.4	15347.3	15352.9	15751.1	15885.8	15111.7
17.5°	12480.9	12424.8	12609.9	13053.0	13602.7	14247.8	14853.6	14977.0	15588.5	15667.0	14988.3
20°	11970.4	12048.9	12290.1	12514.5	13148.4	13928.1	14612.4	14657.3	15554.8	15768.0	14791.9
22.5°	11847.0	11802.1	11880.7	12245.3	12766.9	13614.0	14483.4	14651.7	15549.2	15734.3	14421.7
25°	11718.0	11863.8	11858.2	12222.8	12604.3	13361.5	14590.0	14775.1	15846.5	15908.2	14472.2
27.5°	12009.7	11992.8	12149.9	12178.0	12649.1	13428.8	14814.4	14954.6	16340.1	16289.6	14511.5
30°	12301.4	12217.2	12312.6	12643.5	12862.3	13815.9	15431.4	15420.2	16979.6	16945.9	14634.9
32.5°	12660.4	12621.1	12682.8	12974.5	13344.7	14332.0	15953.1	16284.0	17630.3	17843.4	15061.2
35°	12727.7	12890.3	13036.2	13428.8	13956.1	15167.8	16934.7	17209.6	18381.9	19049.4	15874.5
37.5°	13154.0	13215.7	13557.9	14253.4	14735.8	16284.0	17557.4	17731.2	19066.3	19823.5	16732.8
40°	13608.3	13681.3	14197.3	14926.6	15588.5	17013.2	18140.7	18196.8	19285.0	20418.1	17293.7
42.5°	14225.4	14292.7	14803.1	15717.5	16603.8	17635.9	18656.8	18718.5	19268.2	21102.5	18185.6
45°	14864.8	15027.5	15627.7	16665.5	17462.0	18365.1	18774.6	19027.0	19425.3	21713.9	18909.2
47.5°	15762.4	15913.8	16407.4	17422.7	18353.9	19004.6	19318.7	19565.5	19801.1	22246.8	19374.8
50°	16715.9	16744.0	17344.2	18264.1	18948.5	19728.2	20334.0	20418.1	20294.7	22863.8	20165.7
52.5°	17417.1	17506.9	17972.4	18869.9	19890.9	20850.1	21680.2	21770.0	21528.8	23093.8	20435.0
55°	16256.0	16205.5	16962.8	18157.6	20524.7	22521.6	23727.7	23795.0	22426.3	23806.2	21315.6
57.5°	12565.0	12806.2	13451.3	14892.9	18236.1	23262.1	25309.5	25068.3	23503.3	24165.2	21876.6
60°	9132.1	9076.0	9507.9	10472.7	13743.0	20047.9	23929.6	24176.4	22622.6	21781.2	18039.8
62.5°	7438.0	7359.5	7393.2	7426.8	8868.4	13305.4	17714.4	17708.8	17422.7	15655.8	12166.7
65°	5945.9	6131.0	6147.9	6400.3	6585.4	7948.5	10265.2	10814.9	9418.1	7724.1	5603.8
67.5°	4481.9	4414.6	4639.0	5536.5	5884.2	5738.4	5603.8	5665.5	4027.5	2905.7	2737.4
70°	2642.0	2614.0	2883.2	3859.3	4846.5	4560.4	4223.9	4229.5	2765.4	2030.6	2260.6
72.5°	1447.2	1441.6	1497.7	1957.7	2754.2	2860.8	2535.4	2614.0	1649.2	1643.5	1767.0
75°	807.8	790.9	774.1	863.8	992.9	1049.0	1071.4	1082.6	1133.1	1267.7	1318.2
77.5°	297.3	286.1	286.1	331.0	420.7	527.3	667.5	678.7	802.1	919.9	970.4
80°	101.0	112.2	151.5	207.5	280.5	375.8	454.4	465.6	566.5	645.1	661.9
82.5°	61.7	67.3	101.0	145.8	201.9	263.6	336.6	342.2	420.7	471.2	493.6
85°	28.0	33.7	56.1	89.8	129.0	173.9	179.5	179.5	173.9	179.5	168.3
87.5°	0.0	0.0	11.2	11.2	11.2	16.8	22.4	16.8	28.0	33.7	33.7
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°	16962.8	16962.8	16962.8	16962.8	16962.8	16962.8	16962.8	16962.8	16962.8	16962.8	16962.8
2.5°	16811.3	16749.6	16558.9	16390.6	16340.1	16115.7	15784.8	15824.1	15582.9	15695.0	15577.2
5°	16581.3	16373.8	15885.8	15678.2	15134.1	14887.3	14719.0	14298.3	14102.0	14062.7	13894.4
7.5°	15992.3	15863.3	15251.9	14691.0	14113.2	13619.6	12985.7	12553.8	12245.3	12161.1	11914.3
10°	15526.8	15240.7	14393.7	13541.0	12716.5	11858.2	11033.6	10388.6	10074.4	9709.8	9586.4
12.5°	15066.8	14634.9	13490.6	12396.7	11330.9	10248.3	9249.9	8464.6	7780.2	7617.5	7561.4
15°	14780.7	14029.1	12682.8	11364.6	9850.1	8436.5	7438.0	6922.0	6501.3	6327.4	6450.8
17.5°	14404.9	13529.8	11908.7	10153.0	8487.0	7185.6	6349.8	6030.1	5878.6	5895.5	5845.0
20°	13933.7	13058.6	10893.4	9053.5	7269.8	6232.0	5755.2	5637.4	5659.9	5699.1	5682.3
22.5°	13597.1	12486.5	10158.6	7931.7	6282.5	5704.7	5508.4	5424.3	5497.2	5530.8	5502.8
25°	13339.1	11998.5	9266.7	6938.8	5710.3	5407.4	5317.7	5312.1	5424.3	5469.1	5441.1
27.5°	13103.5	11544.1	8380.4	6181.5	5328.9	5177.5	5149.4	5216.7	5289.6	5334.5	5373.8
30°	12963.3	11196.3	7550.2	5547.7	5138.2	5065.3	5014.8	5076.5	5115.8	5160.6	5138.2
32.5°	13097.9	10949.5	6748.1	5188.7	4981.1	4908.2	4975.5	4936.3	5003.6	5042.8	4981.1
35°	13518.6	10730.7	6175.9	4998.0	4801.6	4829.7	4840.9	4824.1	4852.1	4818.5	4891.4
37.5°	13933.7	10652.2	5648.6	4835.3	4717.5	4717.5	4706.3	4672.6	4728.7	4717.5	4751.1
40°	14461.0	10702.7	5199.9	4661.4	4639.0	4627.7	4582.9	4577.3	4554.8	4560.4	4571.6
42.5°	14920.9	10814.9	4941.9	4549.2	4566.0	4588.5	4504.3	4437.0	4465.1	4409.0	4409.0
45°	15409.0	10915.8	4711.9	4470.7	4453.8	4448.2	4380.9	4341.7	4319.2	4324.8	4375.3
47.5°	16177.4	11061.7	4538.0	4364.1	4375.3	4291.2	4274.3	4223.9	4246.3	4280.0	4285.6
50°	16721.6	11370.2	4403.4	4240.7	4280.0	4223.9	4122.9	4100.5	4100.5	4156.5	4145.3
52.5°	17103.0	11802.1	4274.3	4106.1	4122.9	4078.0	4044.4	3993.9	3960.2	4038.8	4078.0
55°	18269.7	12520.1	4240.7	3993.9	3988.3	3943.4	3881.7	3831.2	3814.4	3825.6	3904.1
57.5°	18157.6	12295.8	4134.1	3797.5	3786.3	3724.6	3662.9	3646.1	3640.5	3651.7	3674.1
60°	14741.4	9081.6	3691.0	3573.2	3556.3	3545.1	3483.4	3416.1	3382.5	3416.1	3388.1
62.5°	9754.7	6080.6	3253.4	3303.9	3315.1	3287.1	3186.1	3118.8	3130.0	3169.3	3107.6
65°	4790.4	3573.2	2950.5	3085.2	3096.4	3017.8	2922.5	2844.0	2804.7	2838.3	2810.3
67.5°	2737.4	2731.8	2703.7	2844.0	2838.3	2759.8	2608.4	2541.0	2473.7	2485.0	2468.1
70°	2322.3	2367.2	2423.3	2507.4	2501.8	2412.0	2232.5	2182.0	2086.7	2075.5	2047.4
72.5°	1828.7	1907.2	2030.6	2092.3	2041.8	1929.6	1811.8	1727.7	1643.5	1593.1	1609.9
75°	1357.5	1469.7	1537.0	1576.2	1497.7	1436.0	1340.6	1239.7	1138.7	1093.8	1077.0
77.5°	987.3	1020.9	1082.6	1110.7	1060.2	998.5	942.4	841.4	746.0	684.3	667.5
80°	690.0	712.4	757.3	757.3	757.3	729.2	656.3	555.3	493.6	437.5	426.3
82.5°	482.4	504.8	549.7	527.3	521.7	488.0	443.1	364.6	297.3	258.0	246.8
85°	168.3	185.1	224.4	269.3	286.1	280.5	252.4	201.9	157.1	129.0	117.8
87.5°	39.3	39.3	44.9	39.3	39.3	44.9	39.3	39.3	39.3	28.0	22.4
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)