

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: P651590

Luminaire Tested: **GALN-SA8D-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45860.6 lumens
Efficiency: N/A
Efficacy: 93.0 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

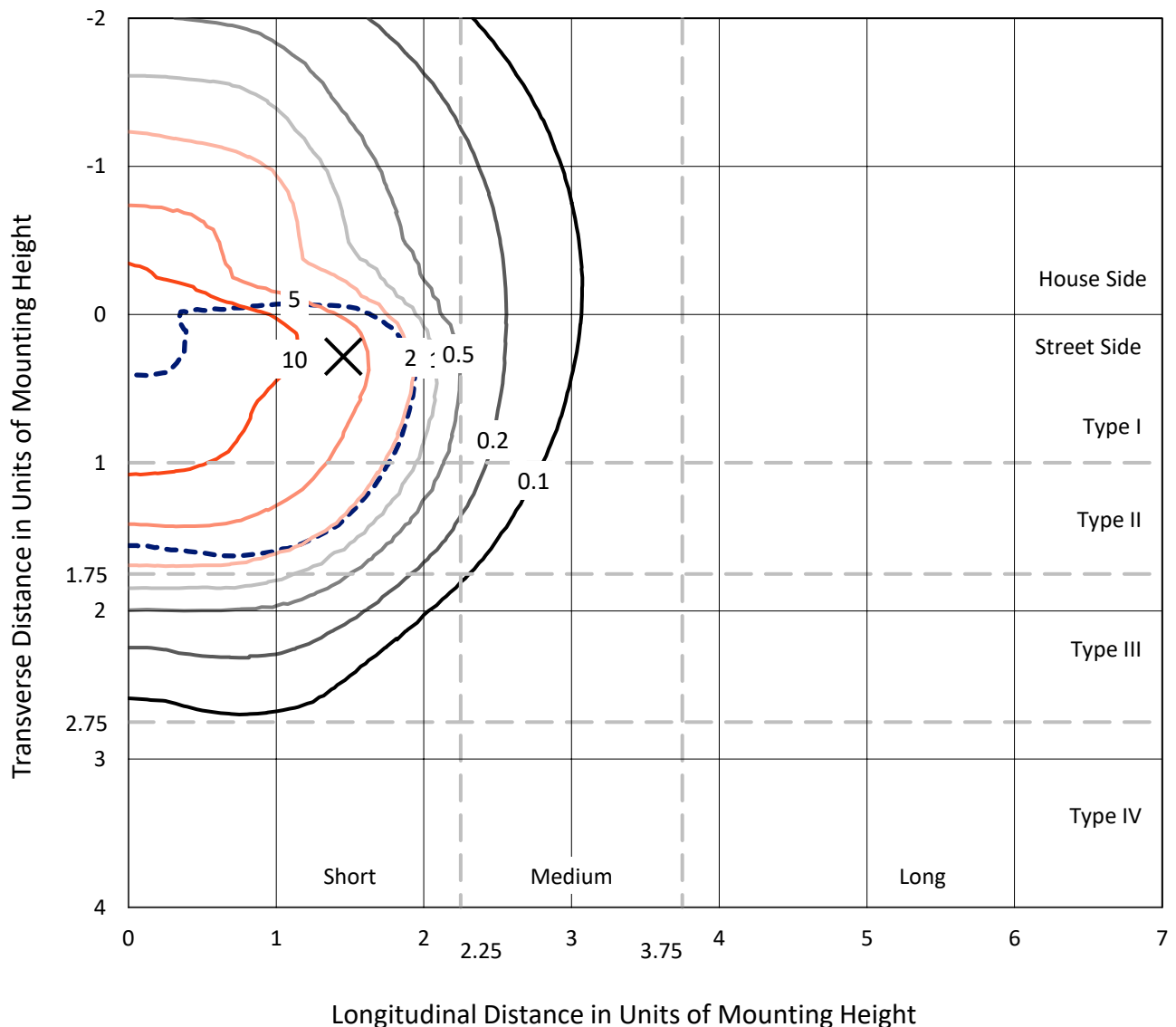
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

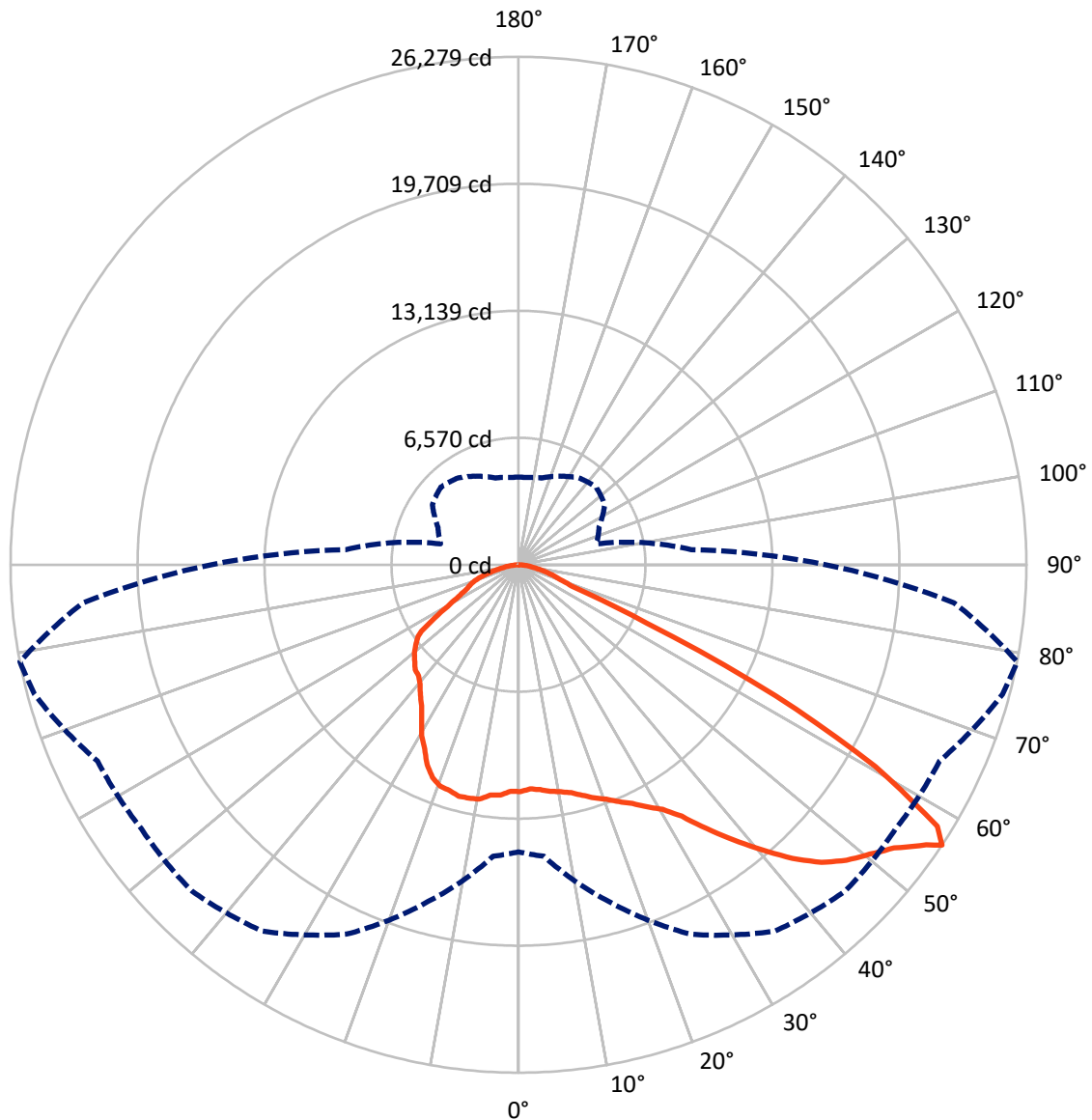
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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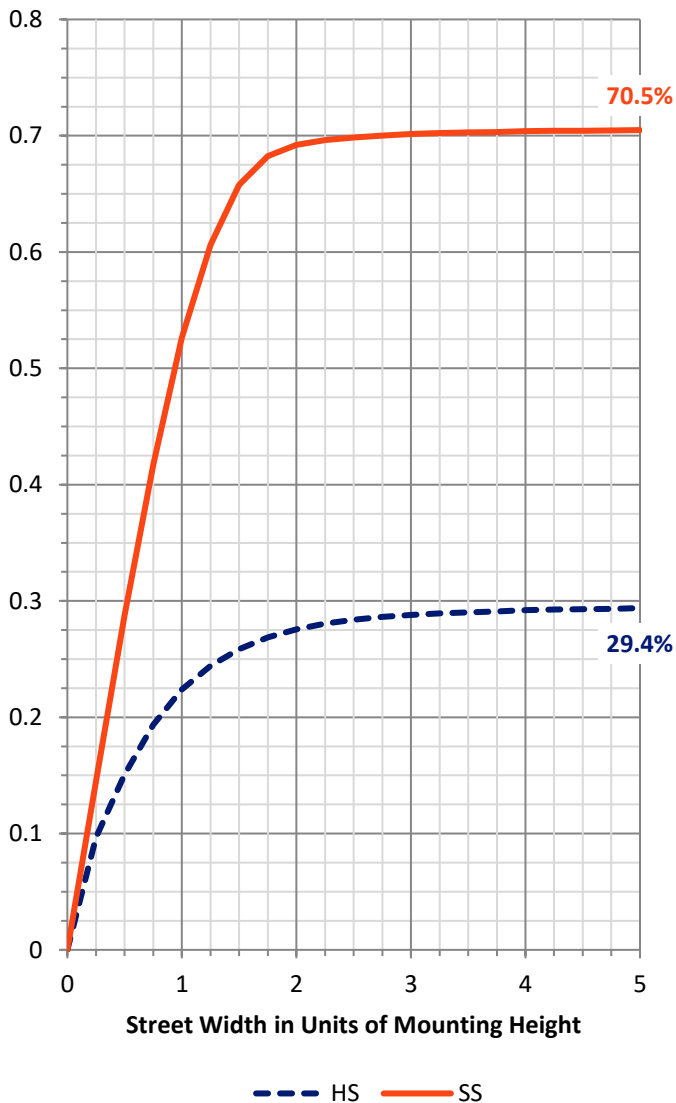
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13543.6	0.0	13543.6
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	32316.9	0.0	32316.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	45860.6	0.0	45860.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1066.8	2.3
10°-20°	2919.6	6.4
20°-30°	4994.9	10.9
30°-40°	7655.3	16.7
40°-50°	10346.2	22.6
50°-60°	11882.9	25.9
60°-70°	5416.6	11.8
70°-80°	1335.5	2.9
80°-90°	242.7	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°	45860.6	100.0
0°-180°	45860.6	100.0

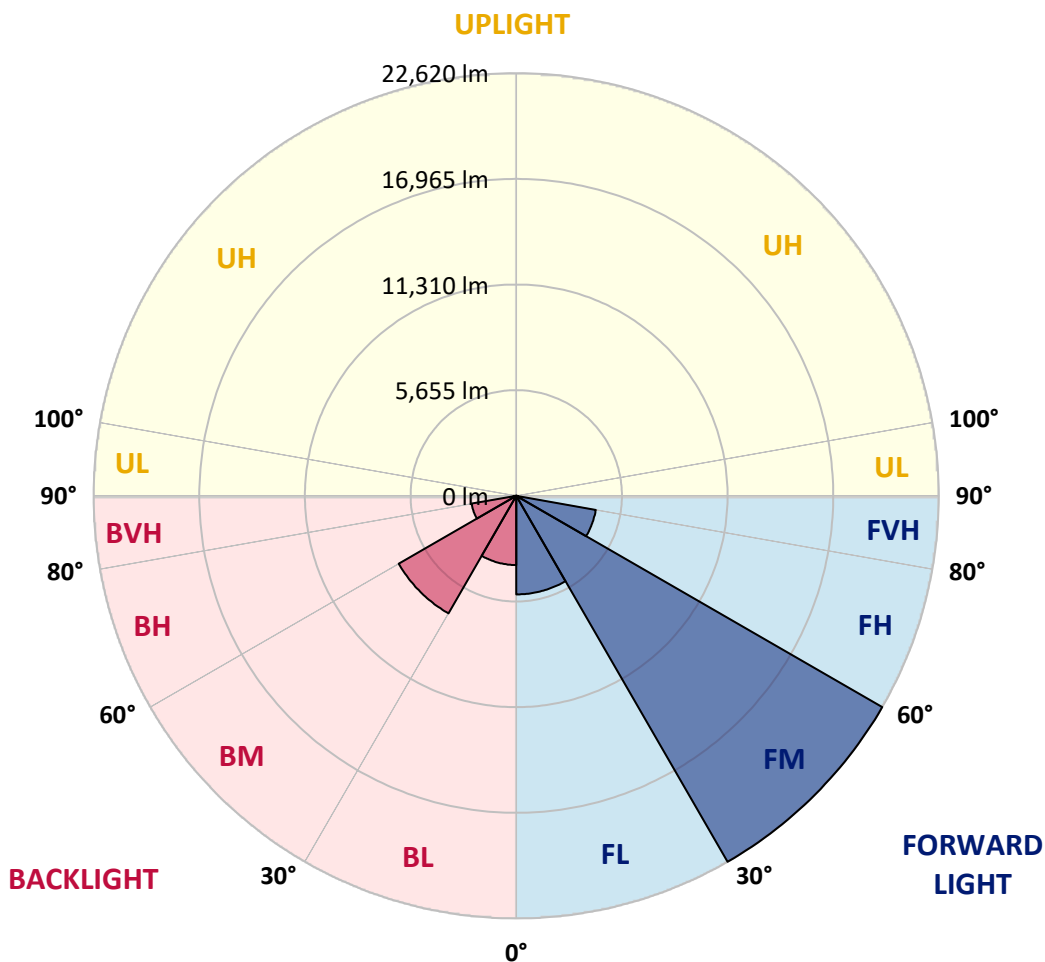


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5276.6	11.5			
FM (30°-60°)	22619.8	49.3			
FH (60°-80°)	4323.6	9.4			G2/5000
FVH (80°-90°)	96.9	0.2			G1/100
BL (0°-30°)	3704.8	8.1	B4/5000		
BM (30°-60°)	7264.6	15.8	B4/8500		
BH (60°-80°)	2428.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	145.8	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°	55°	65°	75°	79°	85°
0°	11733.9	11733.9	11733.9	11733.9	11733.9	11733.9	11733.9	11733.9	11733.9	11733.9	11733.9
2.5°	11162.6	11134.1	11202.6	11254.0	11316.9	11396.9	11436.8	11459.7	11659.6	11608.2	11762.5
5°	10922.7	10848.4	10899.9	10939.8	11048.4	11145.5	11254.0	11425.4	11608.2	11688.2	11876.7
7.5°	10711.3	10671.4	10659.9	10688.4	10837.0	10962.7	11151.2	11402.5	11699.7	11831.0	11939.6
10°	10362.9	10305.7	10391.4	10579.9	10619.9	10882.7	11099.8	11459.7	11716.7	11945.3	12265.1
12.5°	10208.6	10151.5	10168.6	10277.2	10557.1	10808.4	11065.5	11471.2	12013.9	12105.3	12533.7
15°	10454.2	10397.1	10414.3	10385.7	10654.2	10785.6	11191.2	11699.7	12219.5	12373.7	12830.7
17.5°	11014.1	11019.8	10945.5	10882.7	10819.9	11099.8	11379.7	11836.7	12299.5	12687.9	13030.7
20°	12082.4	11893.8	11745.3	11391.2	11294.0	11414.0	11768.2	12208.0	12625.1	12945.0	13333.5
22.5°	12905.0	12922.1	12710.8	12128.1	11916.7	11968.1	12270.9	12630.8	13087.8	13316.3	13762.0
25°	14098.9	13979.0	13750.5	13287.8	12813.6	12853.6	13076.4	13402.0	13527.7	13687.6	14173.2
27.5°	15190.1	15224.4	14773.1	14338.9	13750.5	13636.2	14036.1	14093.2	13881.9	14184.6	14350.3
30°	16298.3	16269.8	15972.7	15464.3	14887.3	14910.2	15087.3	14807.3	14516.0	14681.7	14795.9
32.5°	17446.6	17121.0	17109.6	16652.6	16212.6	16001.3	15784.2	15921.3	15470.0	15504.3	15395.8
35°	18366.3	18412.1	18149.3	17823.6	17606.6	17235.2	16641.1	16886.8	16801.1	16761.0	16292.6
37.5°	19034.8	18857.7	18989.0	18880.5	18674.8	18212.1	17595.1	17829.4	17869.3	18063.6	17520.9
40°	19583.2	19508.9	19857.4	19914.5	19771.7	18772.0	17663.7	18360.6	18960.5	19383.2	18737.6
42.5°	19845.9	20005.9	20371.5	20811.4	20491.5	19423.2	18017.9	18766.2	20103.0	20771.4	19891.7
45°	20200.1	19994.5	20537.2	21342.6	21348.4	19971.6	18360.6	19314.7	20994.2	21965.4	20680.0
47.5°	19840.2	19943.1	20502.9	21525.5	21788.3	20548.6	19286.1	20091.6	21976.8	22839.4	21411.3
50°	19034.8	19240.4	20263.0	21325.6	22119.6	21159.9	20348.7	20931.4	22885.1	23542.1	21531.2
52.5°	18195.0	18309.2	19908.8	21479.8	22268.2	21948.2	21771.1	22091.1	23993.4	24336.1	21679.7
55°	15909.9	16452.6	18737.6	21411.3	22993.6	23370.7	23233.6	23702.1	25250.2	25593.0	22490.9
56°	14853.1	15138.7	18035.0	21091.4	23136.5	23890.5	23822.0	24033.3	25918.5	26278.5	22616.6
57.5°	12899.3	12922.1	15378.6	19674.6	22599.4	24044.8	23976.2	24141.9	25787.2	25541.5	21514.0
60°	8072.1	8426.2	10465.7	15133.0	19217.5	22308.1	22696.6	21365.5	21742.5	21222.7	16738.3
62.5°	4181.7	4130.3	5484.2	8849.0	12756.5	15972.7	16332.6	16269.8	15687.1	14927.3	10934.1
65°	2085.2	2096.5	2867.8	4381.6	6535.3	8363.4	9368.8	9477.4	7929.2	7295.2	5187.1
67.5°	1513.9	1571.0	2062.3	2679.3	3079.2	3444.7	4221.7	4141.7	3136.3	2982.0	2765.0
70°	1176.8	1228.2	1673.8	2045.1	1856.6	1856.6	2022.3	2090.8	2233.7	2296.5	2370.8
72.5°	856.9	896.9	1279.7	1411.0	1216.8	1308.2	1513.9	1673.8	1822.4	1845.2	1930.9
75°	588.4	622.7	839.7	776.9	731.2	902.6	1108.3	1256.8	1365.4	1422.5	1473.9
77.5°	382.7	394.2	479.9	405.6	468.4	582.7	719.8	845.5	954.0	999.7	1011.1
80°	171.4	188.6	205.6	257.1	325.6	417.1	514.1	617.0	685.5	702.7	737.0
82.5°	97.1	97.1	125.6	182.8	239.9	302.8	371.3	445.6	525.5	542.7	537.0
85°	51.4	51.4	74.3	108.6	148.5	177.1	171.4	177.1	188.6	217.1	211.3
87.5°	17.2	17.2	22.9	22.9	28.6	34.3	28.6	39.9	51.4	51.4	51.4
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°	11733.9	11733.9	11733.9	11733.9	11733.9	11733.9	11733.9	11733.9	11733.9	11733.9	11733.9
2.5°	11716.7	11768.2	11699.7	11848.2	11848.2	11819.6	11676.8	11722.4	11756.8	11756.8	11785.4
5°	11939.6	11922.4	11968.1	11791.1	11682.5	11642.5	11408.2	11294.0	11196.9	11191.2	11105.5
7.5°	12065.2	12019.6	12002.4	11871.0	11391.2	11099.8	10597.1	10305.7	10242.9	10020.1	10105.8
10°	12265.1	12350.8	12265.1	11551.1	10882.7	10214.4	9723.1	9271.7	9094.7	8951.9	8866.2
12.5°	12676.5	12636.5	12139.5	11174.0	10237.2	9443.1	8711.9	8237.8	8060.6	7934.9	7923.6
15°	13025.0	12825.0	12065.2	10579.9	9231.7	8386.3	7786.4	7449.4	7369.4	7380.8	7432.3
17.5°	13144.9	13007.8	11676.8	9963.0	8483.3	7489.4	7209.5	7158.0	7232.3	7318.0	7340.8
20°	13333.5	13116.4	11516.8	9123.2	7557.9	6929.5	6912.3	7095.2	7232.3	7358.0	7375.1
22.5°	13727.6	13179.2	10997.0	8329.1	6923.8	6763.8	6929.5	7083.7	7295.2	7397.9	7306.5
25°	13841.9	13042.1	10265.8	7375.1	6523.9	6661.1	6838.1	7049.5	7198.0	7255.1	7295.2
27.5°	13939.0	12830.7	9277.4	6741.0	6398.2	6655.3	6838.1	7015.2	7095.2	7146.6	7192.3
30°	14213.2	12767.9	8420.5	6318.3	6318.3	6541.0	6775.3	6821.0	6929.5	6992.3	7072.3
32.5°	14350.3	12333.8	7540.7	6049.7	6238.3	6598.1	6615.3	6701.0	6706.7	6758.1	6672.4
35°	14710.3	12025.3	6723.9	5855.5	6272.5	6541.0	6626.7	6575.4	6295.4	6158.3	6186.9
37.5°	14973.0	11871.0	6135.4	5832.7	6278.2	6603.9	6649.6	6261.2	5969.8	5741.3	5798.4
40°	15681.4	11488.2	5689.9	5792.7	6329.7	6672.4	6546.8	6124.0	5598.5	5364.2	5324.2
42.5°	16224.1	11214.1	5409.9	5747.0	6369.6	6769.5	6495.4	5849.8	5312.8	5095.7	5152.9
45°	16852.5	11151.2	5261.4	5758.4	6438.2	6821.0	6432.5	5638.5	5067.2	4981.5	4964.3
47.5°	17075.3	10699.9	5101.4	5661.3	6421.1	6803.9	6221.1	5478.5	4975.8	4987.2	5032.9
50°	16703.9	10237.2	4981.5	5461.4	6306.8	6649.6	5889.8	5267.1	4924.4	5067.2	5147.2
52.5°	16229.8	9763.0	4735.8	5192.8	6072.6	6409.7	5735.5	5255.7	4872.9	4827.3	4844.4
55°	16372.6	9374.5	4393.0	4827.3	5695.6	5964.0	5564.1	5147.2	4747.3	4575.9	4633.0
56°	15909.9	8974.6	4170.3	4598.8	5438.5	5678.4	5478.5	5050.0	4644.4	4530.2	4530.2
57.5°	14601.7	7632.2	3878.9	4233.1	4895.8	5181.4	5312.8	4992.9	4530.2	4330.2	4335.9
60°	10768.4	5427.1	3479.0	3730.4	4056.1	4284.6	4895.8	4833.0	4244.5	4107.4	4056.1
62.5°	6638.2	3964.6	3193.4	3290.5	3456.2	3644.7	4273.1	4376.0	3941.8	3793.2	3758.9
65°	3719.0	3033.5	2976.3	3016.3	3096.3	3193.4	3547.6	3776.1	3479.0	3250.5	3239.1
67.5°	2719.3	2713.6	2759.2	2793.5	2827.8	2827.8	2913.5	3004.9	2964.9	2782.1	2765.0
70°	2416.4	2433.6	2467.9	2473.6	2485.0	2445.0	2376.5	2347.9	2393.7	2279.4	2256.5
72.5°	1993.8	2050.9	2090.8	2096.5	2033.7	1982.3	1890.9	1793.8	1759.5	1736.7	1730.9
75°	1531.0	1571.0	1588.1	1582.4	1559.6	1485.3	1376.8	1279.7	1216.8	1148.2	1182.5
77.5°	1034.0	1091.1	1119.7	1119.7	1085.4	971.2	919.7	845.5	782.6	708.4	719.8
80°	725.5	765.5	811.2	805.5	748.4	691.2	617.0	548.4	497.0	439.8	434.1
82.5°	542.7	565.6	588.4	577.0	537.0	479.9	428.5	365.6	308.5	268.5	268.5
85°	194.3	211.3	257.1	268.5	291.3	291.3	245.7	205.6	165.7	137.1	137.1
87.5°	57.1	57.1	62.8	62.8	57.1	62.8	51.4	57.1	62.8	39.9	39.9
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)