

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: P533132

Luminaire Tested: **GALN-SA8C-735-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-735-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45089 lumens
Efficiency: N/A
Efficacy: 105.1 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

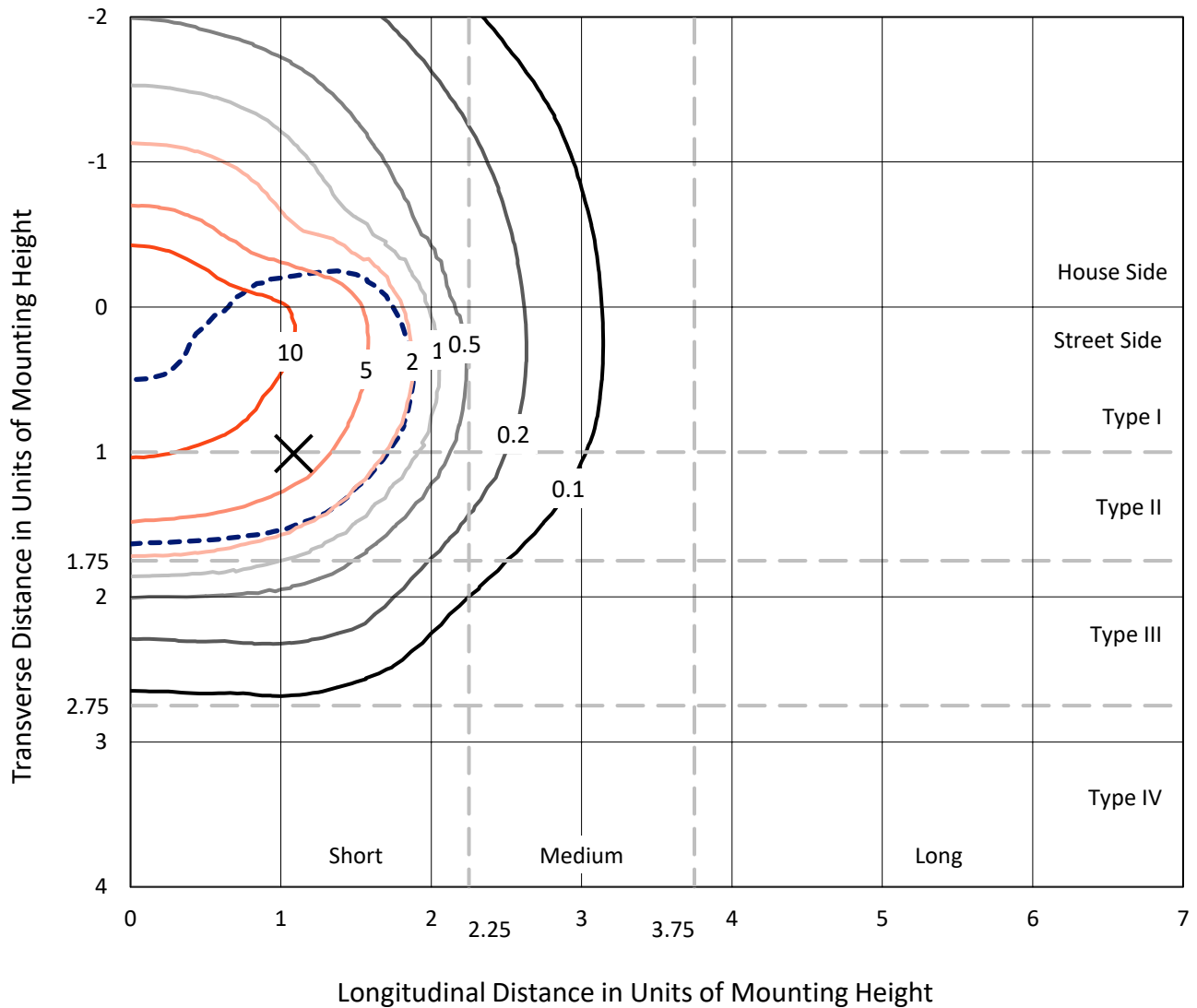
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

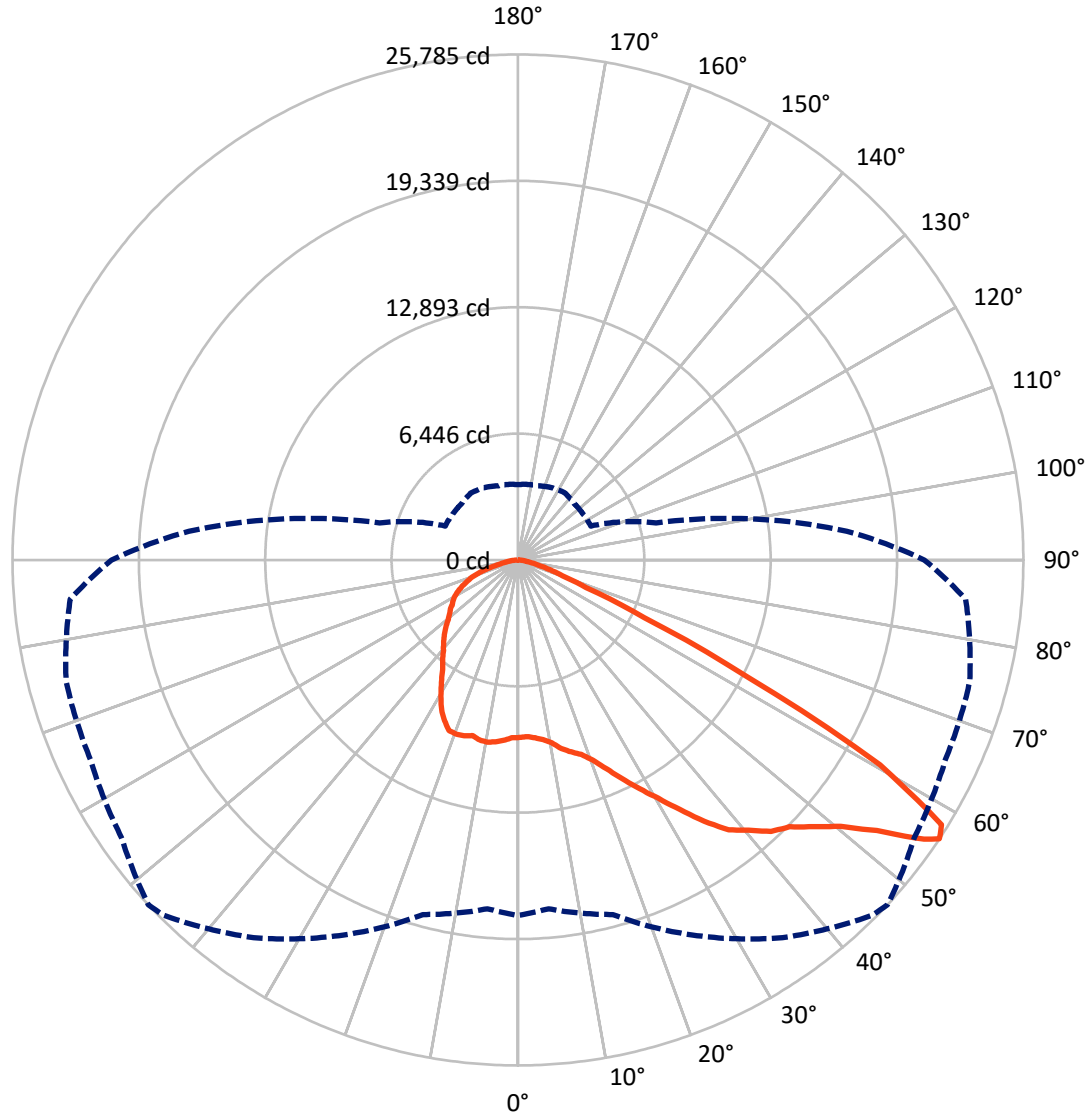
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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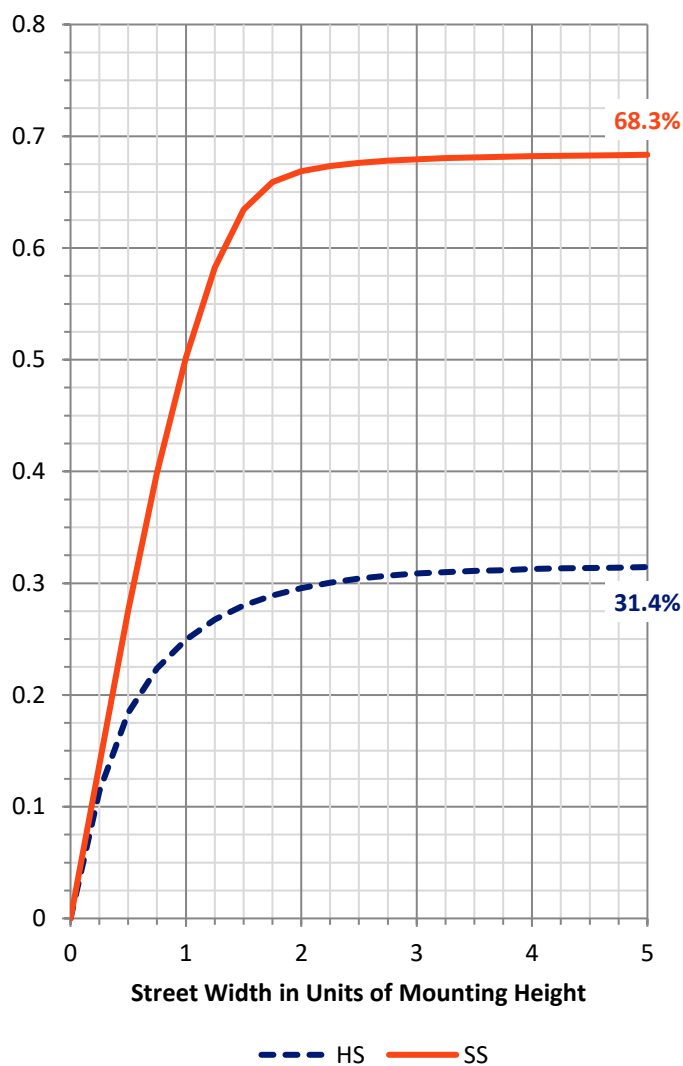
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14288.2	0.0	14288.2
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	30800.8	0.0	30800.8
	% Fixture	68.3	0.0	68.3
Total	Lumens	45089.0	0.0	45089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	882.5	2.0
10°-20°	2783.8	6.2
20°-30°	4921.1	10.9
30°-40°	7391.3	16.4
40°-50°	10143.8	22.5
50°-60°	12085.0	26.8
60°-70°	5171.7	11.5
70°-80°	1463.6	3.2
80°-90°	246.3	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°	45089.0	100.0
0°-180°	45089.0	100.0

Coefficient of Utilization

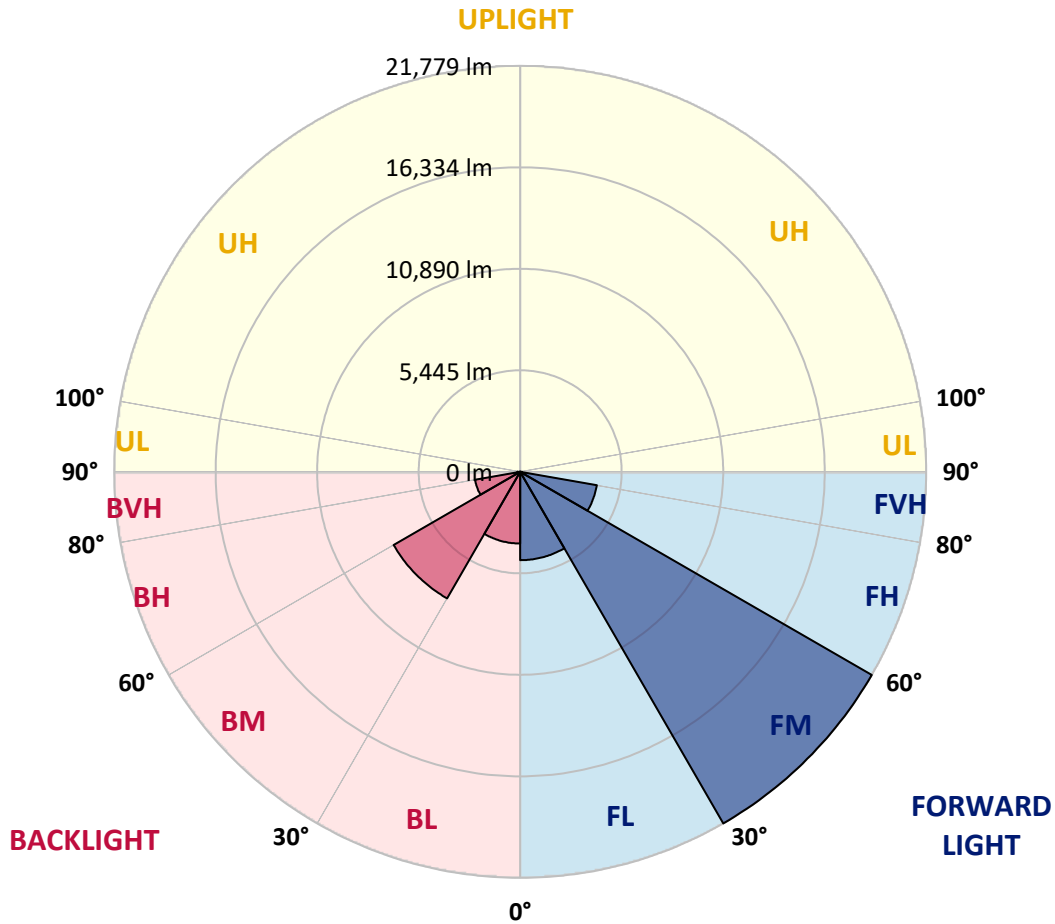


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4740.4	10.5			
FM (30°-60°)	21779.0	48.3			
FH (60°-80°)	4176.9	9.3			G2/5000
FVH (80°-90°)	104.5	0.2			G2/225
BL (0°-30°)	3847.0	8.5	B4/5000		
BM (30°-60°)	7841.1	17.4	B4/8500		
BH (60°-80°)	2458.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	141.8	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°	47°	55°	65°	75°	85°
0°	9057.0	9057.0	9057.0	9057.0	9057.0	9057.0	9057.0	9057.0	9057.0	9057.0	9057.0
2.5°	9022.5	9005.3	8993.8	9085.8	9051.3	9057.0	9022.5	9057.0	9080.0	9028.3	9103.0
5°	9005.3	9057.0	9011.0	9039.8	9114.5	9091.5	9114.5	9183.5	9166.3	9149.0	9126.0
7.5°	9166.3	9172.0	9206.5	9218.0	9241.0	9218.0	9252.5	9315.8	9298.5	9200.8	9212.3
10°	9396.3	9407.8	9413.5	9476.8	9517.0	9522.8	9482.5	9425.0	9419.3	9551.6	9459.5
12.5°	9660.8	9632.1	9701.1	9724.1	9770.1	9821.8	9873.6	9752.8	9827.6	9833.3	9724.1
15°	10046.1	10074.8	9994.3	9994.3	10011.6	10017.3	10161.1	10103.6	10092.1	10028.8	10074.8
17.5°	10621.1	10425.6	10419.9	10339.4	10327.9	10373.9	10425.6	10471.6	10626.9	10500.4	10253.1
20°	11040.9	11086.9	10920.2	10822.4	10839.7	10943.2	10891.4	11098.4	11207.7	11000.7	10759.2
22.5°	11782.7	11627.5	11667.7	11449.2	11466.5	11575.7	11570.0	11782.7	11846.0	11518.2	11167.4
25°	12283.0	12242.8	12277.3	12104.8	12127.8	12214.0	12352.0	12702.8	12599.3	12237.0	11426.2
27.5°	13013.3	12932.8	12904.1	12840.8	12817.8	13047.8	13208.9	13582.6	13507.9	12978.8	11886.2
30°	13760.9	13709.2	13737.9	13479.1	13571.1	14059.9	14105.9	14617.7	14583.2	13651.6	12398.0
32.5°	14278.4	14307.2	14359.0	14215.2	14623.5	15014.5	15169.8	15750.6	15779.3	14807.5	13387.1
35°	15112.3	15014.5	15043.3	15210.0	15399.8	16112.9	16365.9	16751.2	16992.7	16020.8	14336.0
37.5°	15635.6	15739.1	15618.3	15882.8	16377.4	17234.2	17464.2	17861.0	18114.0	17216.9	15629.8
40°	16452.1	16285.4	16371.6	16561.4	17067.4	18183.0	18119.8	18528.1	18608.6	18234.8	16837.4
42.5°	17332.0	17251.4	17130.7	17562.0	17987.5	18798.3	18924.8	18735.1	19143.4	19229.6	18562.6
45°	18384.3	18482.1	18499.3	18510.8	18884.6	19591.9	19419.4	19252.6	19724.2	20351.0	19632.1
47.5°	19361.9	19051.3	19275.6	19586.1	20115.2	20120.9	20322.2	19925.4	20425.7	20983.5	20598.2
50°	19689.7	19540.1	19839.2	20425.7	21242.3	21328.5	21351.5	20788.0	21046.8	21489.6	20931.8
52.5°	19563.1	19511.4	20276.2	21184.8	22380.9	22817.9	22932.9	22237.1	22380.9	22179.6	21667.8
55°	18959.3	19114.6	19885.2	21736.8	23571.2	24922.6	25141.1	24261.3	23347.0	23502.2	22938.7
56°	18131.3	17861.0	18723.6	21110.0	23519.5	25606.9	25785.2	24686.8	24065.8	23864.5	22927.2
57.5°	15382.5	15031.8	16164.6	18993.8	22214.1	25348.1	25480.4	24865.1	23945.0	23536.7	21253.8
60°	9005.3	9177.8	10615.4	13099.6	17136.4	20782.2	21225.0	21673.6	21058.3	19229.6	15819.6
62.5°	4347.4	4238.1	5267.4	7510.1	10442.9	13266.4	13134.1	14393.5	15083.5	13663.1	9988.6
65°	2277.2	2265.7	2875.2	4100.1	5739.0	6969.6	7090.3	7768.9	8717.7	7038.6	5071.9
67.5°	1673.4	1719.4	2024.2	2881.0	3691.8	3766.6	3749.3	4088.6	4180.6	3536.5	3116.8
70°	1311.1	1334.1	1558.4	2190.9	2748.7	2461.2	2409.5	2449.7	2720.0	2835.0	2697.0
72.5°	948.8	971.8	1161.6	1477.9	1719.4	1679.1	1713.6	1937.9	2271.4	2392.2	2248.4
75°	632.6	649.8	753.3	902.8	1017.8	1098.3	1161.6	1420.4	1730.9	1799.9	1730.9
77.5°	437.0	454.3	523.3	638.3	649.8	701.6	724.6	845.3	1035.1	1121.3	1075.3
80°	247.3	247.3	281.8	327.8	402.5	471.5	483.0	580.8	667.1	724.6	736.1
82.5°	115.0	120.8	149.5	201.3	264.5	327.8	339.3	402.5	465.8	523.3	540.5
85°	57.5	63.3	86.3	120.8	161.0	195.5	189.8	195.5	207.0	195.5	201.3
87.5°	17.3	17.3	23.0	28.8	23.0	28.8	28.8	34.5	40.3	46.0	51.8
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°	9057.0	9057.0	9057.0	9057.0	9057.0	9057.0	9057.0	9057.0	9057.0	9057.0	9057.0
2.5°	9108.8	9126.0	9011.0	9120.3	9080.0	9074.3	9154.8	9143.3	9172.0	9160.5	9091.5
5°	9114.5	9074.3	9195.0	9085.8	9137.5	9246.8	9172.0	9344.5	9258.3	9315.8	9189.3
7.5°	9292.8	9304.3	9281.3	9327.3	9304.3	9356.0	9315.8	9356.0	9287.0	9292.8	9407.8
10°	9448.0	9413.5	9453.8	9396.3	9436.5	9419.3	9327.3	9298.5	9321.5	9292.8	9367.5
12.5°	9735.6	9672.3	9643.6	9574.6	9528.5	9356.0	9212.3	9131.8	9241.0	9258.3	9223.8
15°	10028.8	10034.6	9902.3	9747.1	9459.5	9200.8	9235.3	9264.0	9264.0	9310.0	9223.8
17.5°	10212.9	10212.9	10092.1	9781.6	9488.3	9338.8	9304.3	9212.3	9131.8	9120.3	9114.5
20°	10534.9	10437.1	10161.1	9775.8	9476.8	9407.8	9149.0	8930.5	8763.7	8706.2	8700.5
22.5°	10902.9	10655.6	10270.4	9787.3	9459.5	9361.8	8878.7	8551.0	8251.9	8125.4	8142.7
25°	11242.2	10845.4	10333.6	9735.6	9396.3	8924.7	8384.2	7929.9	7619.4	7515.9	7464.1
27.5°	11478.0	11046.7	10333.6	9781.6	9160.5	8436.0	7883.9	7303.1	7032.8	6963.8	6975.3
30°	11794.2	11299.7	10511.9	9683.8	8689.0	7803.4	7142.1	6762.6	6601.6	6544.0	6584.3
32.5°	12536.1	11961.0	10759.2	9448.0	8131.2	7170.9	6636.1	6423.3	6187.5	6072.5	6032.3
35°	13341.1	12587.8	11000.7	9051.3	7504.4	6595.8	6262.3	6066.8	5785.0	5658.5	5681.5
37.5°	14479.7	13392.9	11017.9	8395.7	6825.8	6273.8	5969.0	5664.2	5434.2	5238.7	5181.2
40°	16015.1	14491.2	10977.7	7705.6	6279.5	5894.2	5670.0	5290.4	5031.7	4893.7	4922.4
42.5°	17366.5	15779.3	10810.9	6923.6	5785.0	5635.5	5382.5	5008.7	4755.6	4611.9	4600.4
45°	18505.1	16728.2	10494.6	6256.5	5371.0	5347.9	5054.7	4767.2	4565.9	4433.6	4491.1
47.5°	19557.4	17493.0	10017.3	5589.5	4991.4	5037.4	4755.6	4577.4	4450.9	4330.1	4324.4
50°	19936.9	17481.5	9597.6	5037.4	4686.6	4663.6	4652.1	4462.4	4330.1	4226.6	4272.6
52.5°	20569.5	17677.0	9143.3	4657.9	4410.6	4416.4	4456.6	4318.6	4169.1	4105.8	4163.3
55°	21478.1	17705.7	8142.7	4215.1	4180.6	4220.9	4220.9	4128.8	4002.3	3950.6	3921.8
56°	20736.2	16848.9	7303.1	4100.1	4065.6	4065.6	4174.9	4071.3	3916.1	3875.8	3841.3
57.5°	19126.1	14761.5	6112.8	3962.1	3910.3	3990.8	4048.3	3939.1	3795.3	3737.8	3772.3
60°	13191.6	9988.6	4594.6	3663.1	3663.1	3795.3	3841.3	3680.3	3617.1	3611.3	3565.3
62.5°	7699.9	5819.5	3594.1	3392.8	3404.3	3513.5	3548.0	3456.0	3375.5	3473.3	3519.3
65°	4082.8	3473.3	3082.3	3105.3	3111.0	3197.3	3346.8	3341.0	3335.3	3364.0	3369.8
67.5°	2955.7	2886.7	2800.5	2777.5	2789.0	2852.2	3001.8	3116.8	3111.0	3042.0	2990.3
70°	2633.7	2536.0	2484.2	2490.0	2444.0	2518.7	2639.5	2714.2	2582.0	2501.5	2467.0
72.5°	2190.9	2162.2	2127.7	2133.4	2041.4	2024.2	1886.2	1886.2	1851.7	1828.7	1868.9
75°	1673.4	1661.9	1679.1	1650.4	1552.6	1449.1	1368.6	1293.9	1178.8	1132.8	1109.8
77.5°	1058.1	1092.6	1132.8	1069.6	1029.3	954.6	874.1	799.3	707.3	655.6	655.6
80°	718.8	747.6	776.3	764.8	718.8	649.8	586.5	506.0	442.8	402.5	396.8
82.5°	546.3	569.3	609.6	563.5	517.5	460.0	408.3	350.8	293.3	247.3	247.3
85°	195.5	224.3	247.3	270.3	287.5	293.3	253.0	207.0	166.8	132.3	126.5
87.5°	51.8	57.5	63.3	57.5	57.5	57.5	63.3	57.5	51.8	40.3	40.3
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)