

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: P534276

Luminaire Tested: **GALN-SA9D-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534276
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-SA9D-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA 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: 54454 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G4

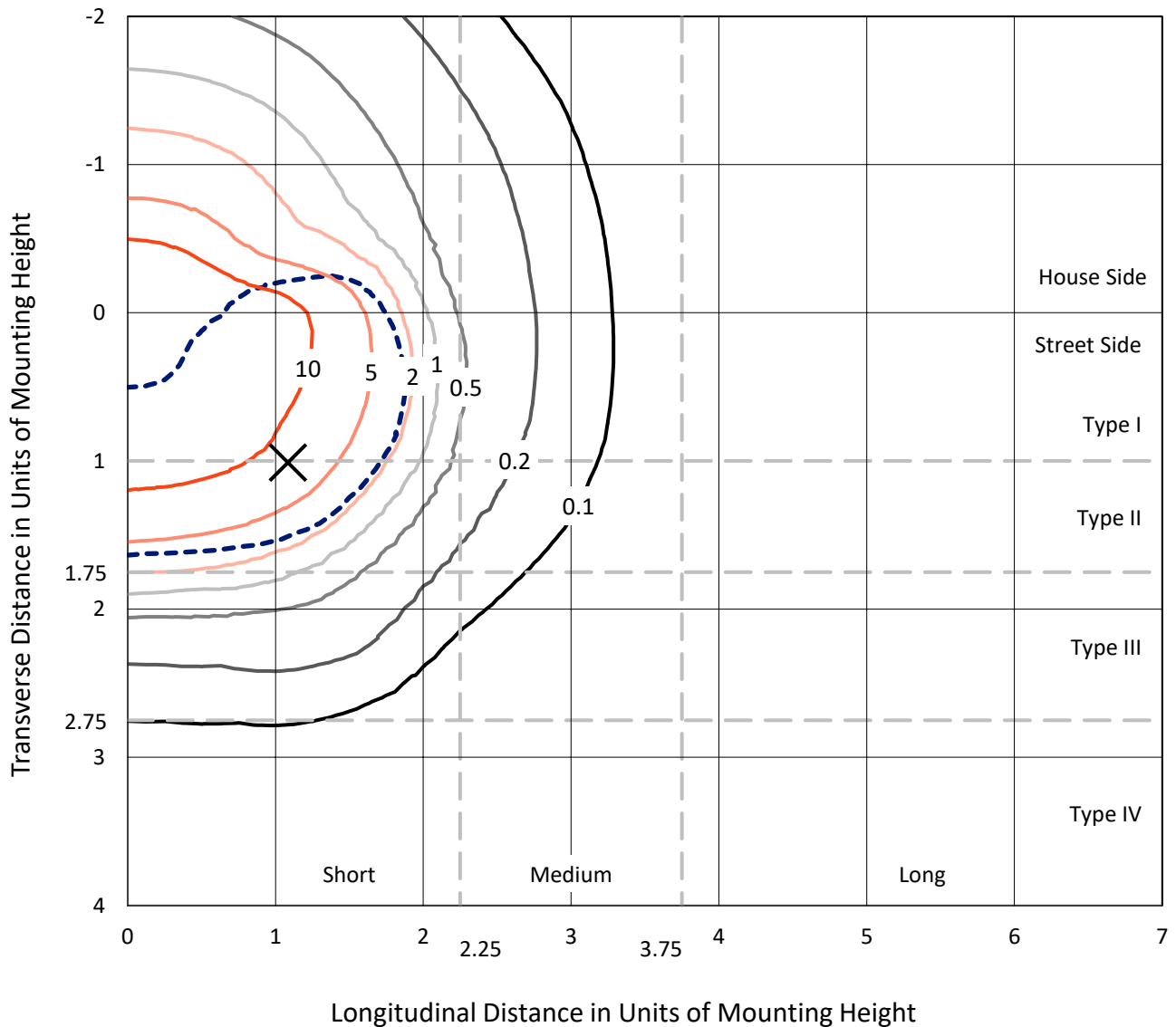
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

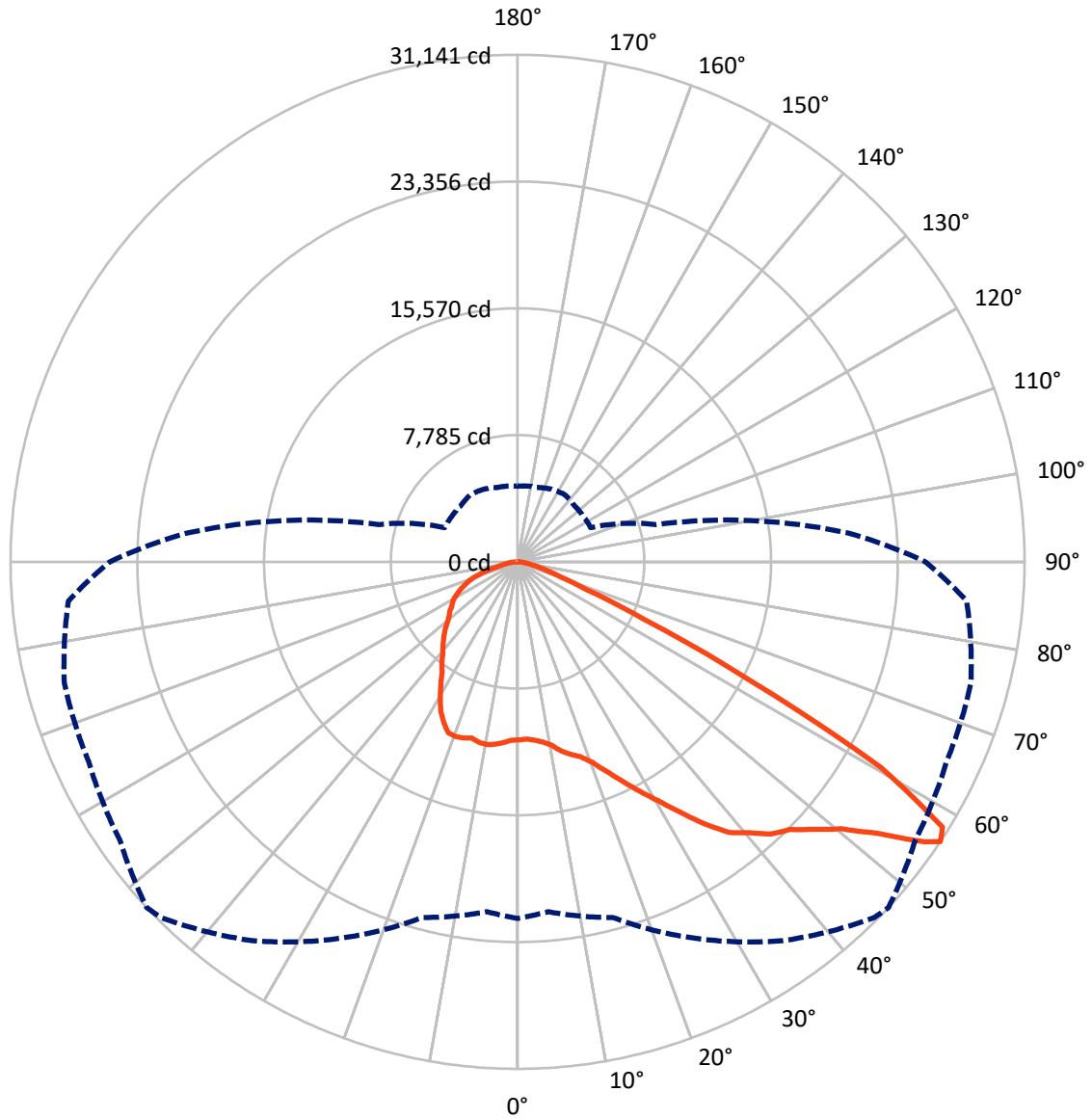
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 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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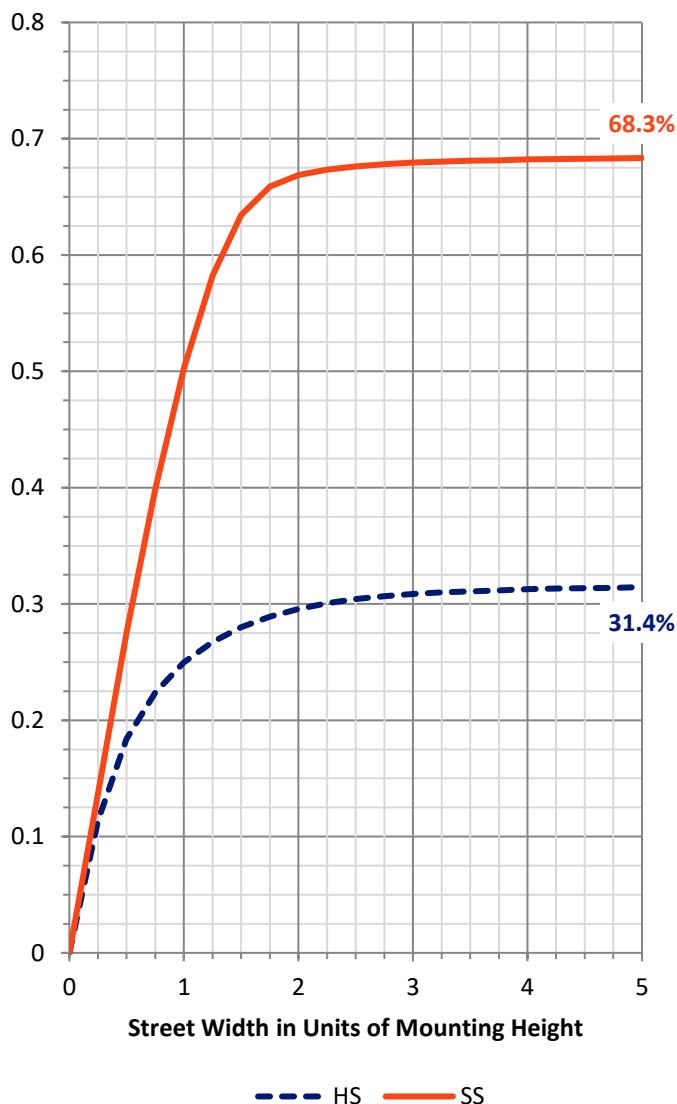
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17255.8	0.0	17255.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	37198.2	0.0	37198.2
	% Fixture	68.3	0.0	68.3
Total	Lumens	54454.0	0.0	54454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1065.8	2.0
10°-20°	3362.0	6.2
20°-30°	5943.2	10.9
30°-40°	8926.5	16.4
40°-50°	12250.7	22.5
50°-60°	14595.1	26.8
60°-70°	6245.8	11.5
70°-80°	1767.5	3.2
80°-90°	297.4	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°	54454.0	100.0
0°-180°	54454.0	100.0

Coefficient of Utilization

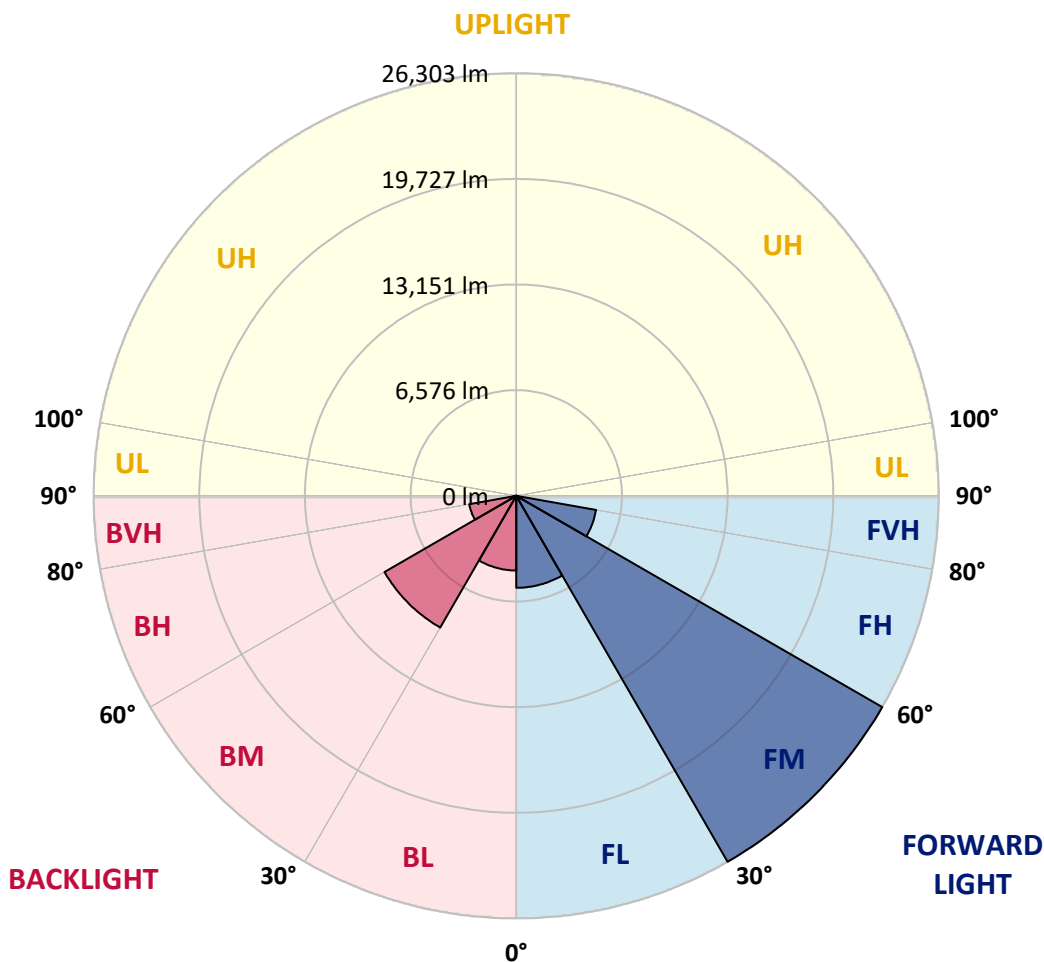


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5725.0	10.5			
FM (30°-60°)	26302.5	48.3			
FH (60°-80°)	5044.4	9.3			G3/7500
FVH (80°-90°)	126.3	0.2			G2/225
BL (0°-30°)	4646.0	8.5	B4/5000		
BM (30°-60°)	9469.7	17.4	B5		
BH (60°-80°)	2968.9	5.5	B4/5000		G4/5000
BVH (80°-90°)	171.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	10938.2	10938.2	10938.2	10938.2	10938.2	10938.2	10938.2	10938.2	10938.2	10938.2	10938.2
2.5°	10896.5	10875.7	10861.8	10972.9	10931.2	10938.2	10896.5	10938.2	10965.9	10903.4	10993.7
5°	10875.7	10938.2	10882.6	10917.3	11007.6	10979.8	11007.6	11090.9	11070.1	11049.3	11021.5
7.5°	11070.1	11077.1	11118.7	11132.6	11160.4	11132.6	11174.3	11250.7	11229.8	11111.8	11125.7
10°	11347.9	11361.8	11368.7	11445.1	11493.7	11500.7	11452.1	11382.6	11375.7	11535.4	11424.3
12.5°	11667.4	11632.6	11716.0	11743.8	11799.3	11861.8	11924.3	11778.5	11868.8	11875.7	11743.8
15°	12132.7	12167.4	12070.2	12070.2	12091.0	12097.9	12271.6	12202.1	12188.2	12111.8	12167.4
17.5°	12827.2	12591.0	12584.1	12486.9	12473.0	12528.5	12591.0	12646.6	12834.1	12681.3	12382.7
20°	13334.1	13389.7	13188.3	13070.2	13091.1	13216.1	13153.6	13403.6	13535.5	13285.5	12993.8
22.5°	14230.0	14042.5	14091.1	13827.2	13848.1	13980.0	13973.1	14230.0	14306.4	13910.6	13486.9
25°	14834.2	14785.6	14827.3	14618.9	14646.7	14750.9	14917.6	15341.2	15216.2	14778.7	13799.4
27.5°	15716.2	15619.0	15584.3	15507.9	15480.1	15757.9	15952.3	16403.8	16313.5	15674.5	14355.0
30°	16619.0	16556.5	16591.3	16278.8	16389.9	16980.2	17035.7	17653.8	17612.2	16487.1	14973.1
32.5°	17244.1	17278.8	17341.3	17167.7	17660.8	18133.0	18320.5	19022.0	19056.7	17883.0	16167.6
35°	18251.1	18133.0	18167.8	18369.2	18598.3	19459.5	19765.1	20230.4	20522.1	19348.4	17313.5
37.5°	18883.1	19008.1	18862.2	19181.7	19779.0	20813.7	21091.5	21570.7	21876.3	20792.9	18876.1
40°	19869.2	19667.8	19772.0	20001.2	20612.3	21959.6	21883.3	22376.3	22473.6	22022.2	20334.5
42.5°	20931.8	20834.6	20688.7	21209.6	21723.5	22702.7	22855.5	22626.4	23119.4	23223.6	22418.0
45°	22202.7	22320.8	22341.6	22355.5	22806.9	23661.1	23452.8	23251.4	23820.9	24577.9	23709.8
47.5°	23383.3	23008.3	23279.2	23654.2	24293.1	24300.1	24543.1	24063.9	24668.1	25341.8	24876.5
50°	23779.2	23598.6	23959.8	24668.1	25654.3	25758.5	25786.3	25105.7	25418.2	25952.9	25279.3
52.5°	23626.4	23563.9	24487.6	25584.9	27029.4	27557.2	27696.1	26855.8	27029.4	26786.3	26168.2
55°	22897.2	23084.7	24015.3	26251.6	28467.0	30099.0	30362.9	29300.4	28196.1	28383.6	27703.0
56°	21897.1	21570.7	22612.5	25494.6	28404.5	30925.5	31140.8	29814.3	29064.2	28821.2	27689.2
57.5°	18577.5	18153.9	19522.0	22938.9	26828.0	30612.9	30772.7	30029.6	28918.4	28425.3	25668.2
60°	10875.7	11084.0	12820.2	15820.4	20695.7	25098.7	25633.5	26175.2	25432.1	23223.6	19105.3
62.5°	5250.3	5118.4	6361.5	9070.0	12611.9	16021.8	15862.1	17383.0	18216.4	16501.0	12063.2
65°	2750.2	2736.3	3472.4	4951.7	6931.0	8417.2	8563.0	9382.5	10528.4	8500.5	6125.4
67.5°	2021.0	2076.5	2444.6	3479.4	4458.6	4548.9	4528.0	4937.8	5048.9	4271.1	3764.1
70°	1583.4	1611.2	1882.1	2646.0	3319.6	2972.4	2909.9	2958.5	3284.9	3423.8	3257.1
72.5°	1145.9	1173.7	1402.9	1784.8	2076.5	2027.9	2069.6	2340.4	2743.2	2889.1	2715.4
75°	763.9	784.8	909.8	1090.3	1229.2	1326.5	1402.9	1715.4	2090.4	2173.7	2090.4
77.5°	527.8	548.6	632.0	770.9	784.8	847.3	875.1	1020.9	1250.1	1354.2	1298.7
80°	298.6	298.6	340.3	395.9	486.1	569.5	583.4	701.4	805.6	875.1	888.9
82.5°	138.9	145.8	180.6	243.1	319.5	395.9	409.7	486.1	562.5	632.0	652.8
85°	69.4	76.4	104.2	145.8	194.5	236.1	229.2	236.1	250.0	236.1	243.1
87.5°	20.8	20.8	27.8	34.7	27.8	34.7	34.7	41.7	48.6	55.6	62.5
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°	10938.2	10938.2	10938.2	10938.2	10938.2	10938.2	10938.2	10938.2	10938.2	10938.2	10938.2
2.5°	11000.7	11021.5	10882.6	11014.5	10965.9	10959.0	11056.2	11042.3	11077.1	11063.2	10979.8
5°	11007.6	10959.0	11104.8	10972.9	11035.4	11167.3	11077.1	11285.4	11181.2	11250.7	11097.9
7.5°	11222.9	11236.8	11209.0	11264.6	11236.8	11299.3	11250.7	11299.3	11215.9	11222.9	11361.8
10°	11410.4	11368.7	11417.3	11347.9	11396.5	11375.7	11264.6	11229.8	11257.6	11222.9	11313.2
12.5°	11757.6	11681.3	11646.5	11563.2	11507.6	11299.3	11125.7	11028.4	11160.4	11181.2	11139.6
15°	12111.8	12118.8	11959.0	11771.5	11424.3	11111.8	11153.4	11188.2	11188.2	11243.7	11139.6
17.5°	12334.1	12334.1	12188.2	11813.2	11459.0	11278.5	11236.8	11125.7	11028.4	11014.5	11007.6
20°	12723.0	12604.9	12271.6	11806.3	11445.1	11361.8	11049.3	10785.4	10584.0	10514.5	10507.6
22.5°	13167.5	12868.8	12403.5	11820.2	11424.3	11306.2	10722.9	10327.0	9965.9	9813.1	9833.9
25°	13577.2	13098.0	12479.9	11757.6	11347.9	10778.4	10125.6	9577.0	9201.9	9076.9	9014.4
27.5°	13861.9	13341.1	12479.9	11813.2	11063.2	10188.1	9521.4	8820.0	8493.6	8410.2	8424.1
30°	14243.9	13646.6	12695.2	11695.1	10493.7	9424.2	8625.5	8167.2	7972.7	7903.3	7951.9
32.5°	15139.8	14445.3	12993.8	11410.4	9820.0	8660.2	8014.4	7757.4	7472.7	7333.8	7285.2
35°	16112.1	15202.3	13285.5	10931.2	9063.0	7965.8	7563.0	7326.8	6986.5	6833.7	6861.5
37.5°	17487.2	16174.6	13306.4	10139.5	8243.5	7576.8	7208.8	6840.7	6562.9	6326.8	6257.3
40°	19341.4	17501.0	13257.7	9306.1	7583.8	7118.5	6847.6	6389.3	6076.8	5910.1	5944.8
42.5°	20973.5	19056.7	13056.3	8361.6	6986.5	6806.0	6500.4	6049.0	5743.4	5569.8	5555.9
45°	22348.6	20202.6	12674.4	7556.0	6486.5	6458.7	6104.5	5757.3	5514.2	5354.5	5423.9
47.5°	23619.5	21126.3	12097.9	6750.4	6028.1	6083.7	5743.4	5528.1	5375.3	5229.5	5222.5
50°	24077.8	21112.4	11591.0	6083.7	5660.1	5632.3	5618.4	5389.2	5229.5	5104.5	5160.0
52.5°	24841.8	21348.5	11042.3	5625.3	5326.7	5333.7	5382.3	5215.6	5035.0	4958.6	5028.1
55°	25939.1	21383.2	9833.9	5090.6	5048.9	5097.5	5097.5	4986.4	4833.6	4771.1	4736.4
56°	25043.2	20348.4	8820.0	4951.7	4910.0	4910.0	5042.0	4917.0	4729.4	4680.8	4639.2
57.5°	23098.6	17827.5	7382.4	4785.0	4722.5	4819.7	4889.2	4757.2	4583.6	4514.2	4555.8
60°	15931.5	12063.2	5548.9	4423.9	4423.9	4583.6	4639.2	4444.7	4368.3	4361.4	4305.8
62.5°	9299.2	7028.2	4340.5	4097.5	4111.4	4243.3	4285.0	4173.9	4076.6	4194.7	4250.3
65°	4930.9	4194.7	3722.4	3750.2	3757.2	3861.3	4041.9	4035.0	4028.0	4062.7	4069.7
67.5°	3569.7	3486.3	3382.1	3354.4	3368.3	3444.7	3625.2	3764.1	3757.2	3673.8	3611.3
70°	3180.7	3062.7	3000.2	3007.1	2951.6	3041.8	3187.7	3278.0	3118.2	3021.0	2979.3
72.5°	2646.0	2611.3	2569.6	2576.5	2465.4	2444.6	2277.9	2277.9	2236.2	2208.5	2257.1
75°	2021.0	2007.1	2027.9	1993.2	1875.1	1750.1	1652.9	1562.6	1423.7	1368.1	1340.4
77.5°	1277.9	1319.5	1368.1	1291.7	1243.1	1152.8	1055.6	965.3	854.2	791.7	791.7
80°	868.1	902.8	937.6	923.7	868.1	784.8	708.4	611.1	534.8	486.1	479.2
82.5°	659.8	687.5	736.2	680.6	625.0	555.6	493.1	423.6	354.2	298.6	298.6
85°	236.1	270.8	298.6	326.4	347.2	354.2	305.6	250.0	201.4	159.7	152.8
87.5°	62.5	69.4	76.4	69.4	69.4	69.4	76.4	69.4	62.5	48.6	48.6
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)