

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: P532392

Luminaire Tested: **GALN-SA7D-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532392
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-SA7D-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA 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: 41592 lumens
Efficiency: N/A
Efficacy: 96.1 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

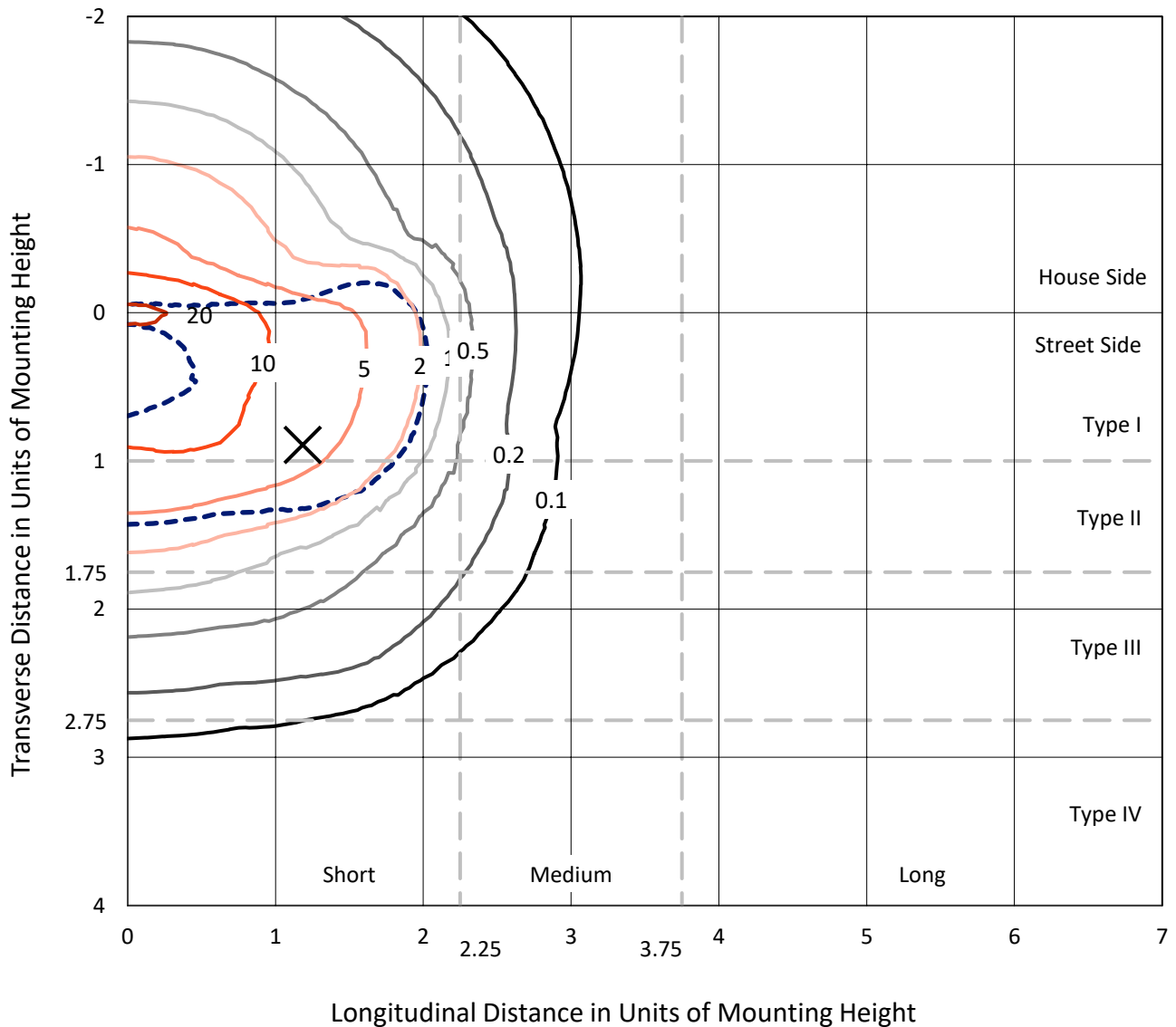
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

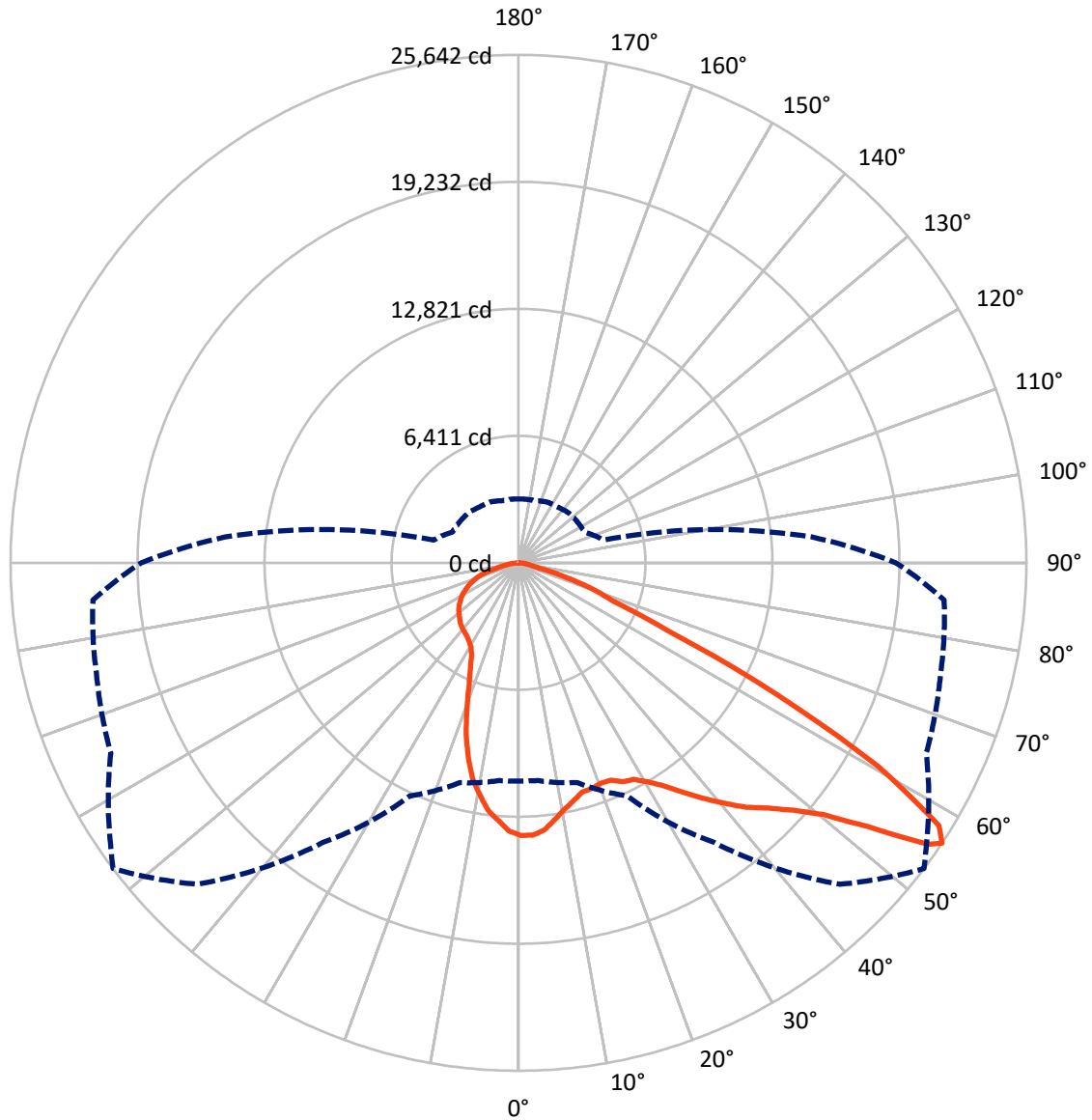
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 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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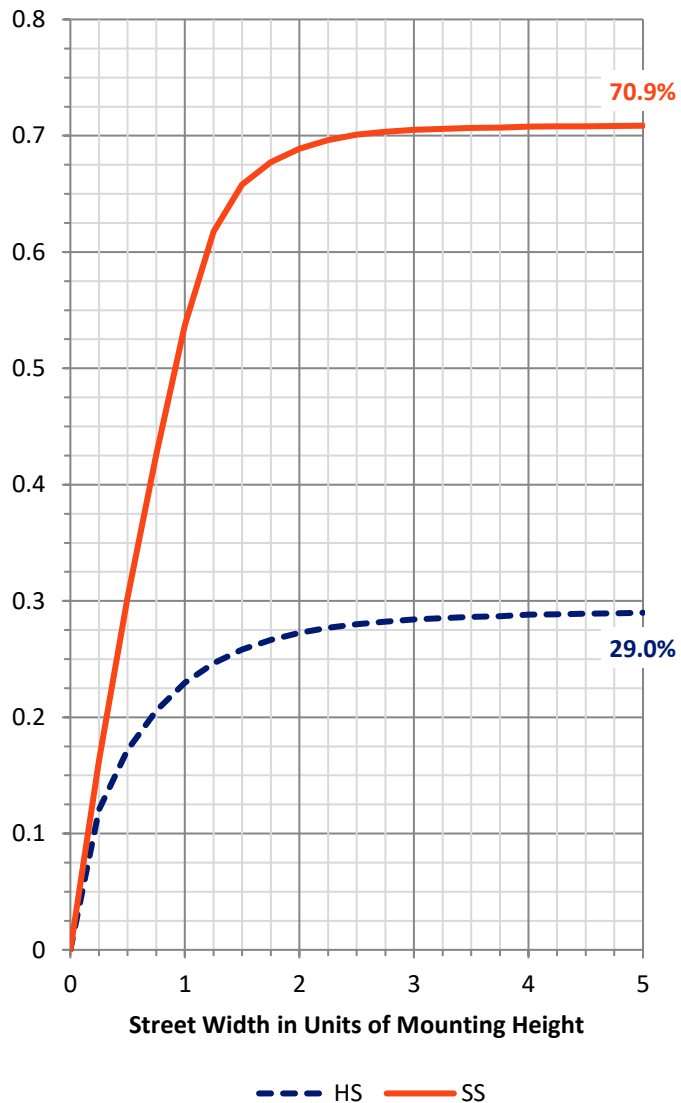
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12137.4	0.0	12137.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	29454.5	0.0	29454.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	41592.0	0.0	41592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1218.2	2.9
10°-20°	3042.5	7.3
20°-30°	4486.4	10.8
30°-40°	6410.2	15.4
40°-50°	8822.8	21.2
50°-60°	10426.1	25.1
60°-70°	5556.4	13.4
70°-80°	1409.6	3.4
80°-90°	219.8	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°	41592.0	100.0
0°-180°	41592.0	100.0

Coefficient of Utilization



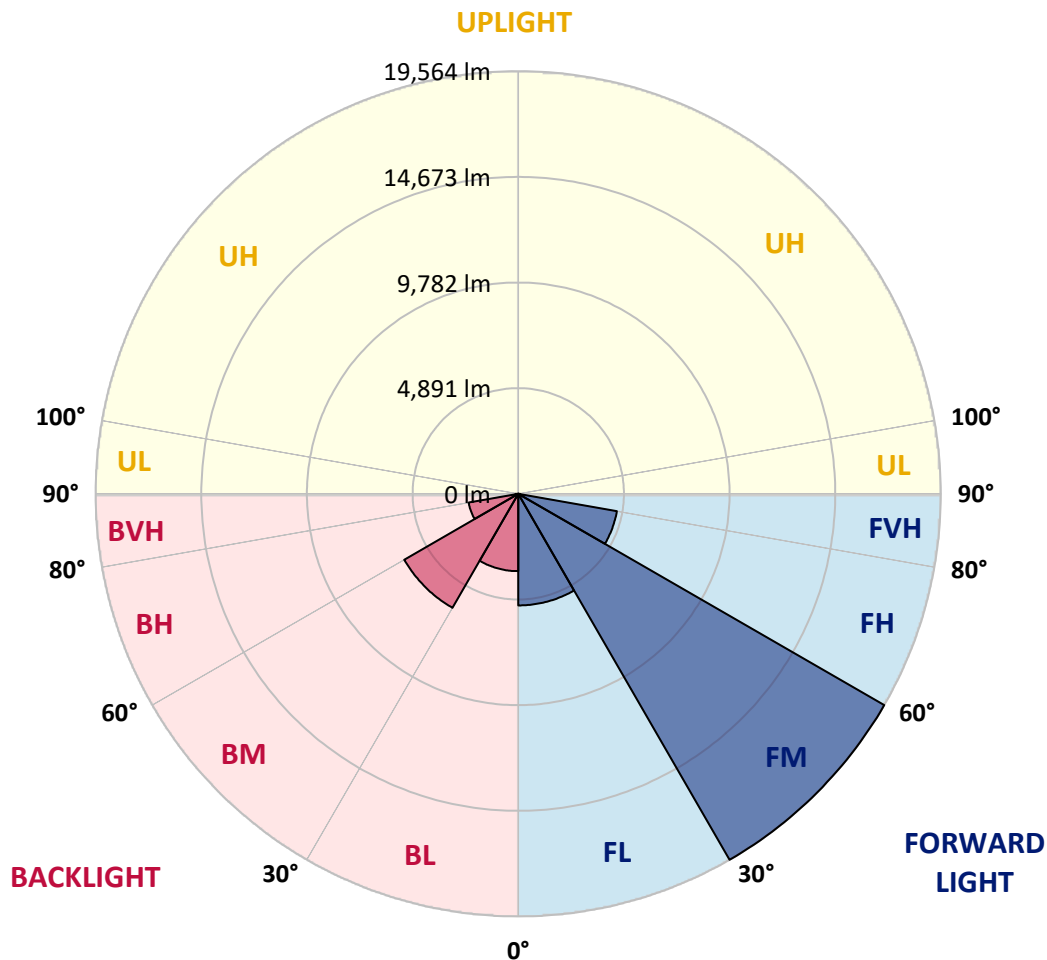
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5167.2	12.4			
FM (30°-60°)	19564.1	47.0			
FH (60°-80°)	4634.9	11.1			G2/5000
FVH (80°-90°)	88.4	0.2			G1/100
BL (0°-30°)	3579.8	8.6	B4/5000		
BM (30°-60°)	6095.0	14.7	B4/8500		
BH (60°-80°)	2331.2	5.6	B3/2500		G3/2500
BVH (80°-90°)	131.5	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°	13760.3	13760.3	13760.3	13760.3	13760.3	13760.3	13760.3	13760.3	13760.3	13760.3	13760.3
2.5°	13589.5	13472.2	13541.5	13514.8	13733.6	13797.6	13765.6	13792.3	13915.0	13856.3	13733.6
5°	12698.5	12863.9	12895.9	12976.0	13104.0	13354.8	13552.2	13605.5	13664.2	13936.3	13909.7
7.5°	11887.5	11999.6	11940.9	12175.6	12453.1	12858.6	13098.7	13141.4	13680.2	13829.6	13941.7
10°	11375.3	11263.3	11530.0	11594.1	11908.9	12373.0	12661.2	12837.2	13328.1	13920.3	13989.7
12.5°	10900.4	10863.1	11023.2	11204.6	11556.7	12036.9	12330.4	12399.7	13157.4	13781.6	14107.1
15°	10548.3	10505.6	10665.7	10799.1	11209.9	11636.7	12010.2	12207.6	12970.6	13701.6	14005.7
17.5°	10270.9	10265.5	10356.2	10596.3	11017.8	11375.3	11978.2	11988.9	12874.6	13824.3	14091.1
20°	10254.8	10249.5	10265.5	10532.3	10916.4	11354.0	11876.8	11972.9	12874.6	13738.9	14096.4
22.5°	10388.2	10302.9	10398.9	10569.6	10847.1	11391.3	11914.2	12127.6	13184.0	14160.4	14336.5
25°	10601.7	10623.0	10676.3	10735.0	10895.1	11476.7	12245.0	12421.1	13546.9	14523.3	14667.3
27.5°	10991.1	10980.5	11001.8	11033.8	11172.6	11556.7	12378.4	12831.9	14304.5	15168.8	15024.8
30°	11562.0	11524.7	11610.1	11722.1	11594.1	11812.8	12821.2	13162.7	15008.8	15819.8	15425.0
32.5°	12079.6	12218.3	12378.4	12426.4	12271.7	12314.4	13408.1	13754.9	15595.7	16620.1	15915.8
35°	12725.2	12837.2	13050.7	13200.0	13173.4	13045.3	14208.5	14667.3	16444.0	17207.0	16433.4
37.5°	13354.8	13488.2	13840.3	14283.2	14037.7	13979.0	15062.1	15441.0	16705.5	17521.8	16812.2
40°	14368.5	14363.2	14971.4	15200.9	15419.6	15318.2	15947.8	16075.9	16844.2	17452.4	16822.9
42.5°	15558.3	15483.6	16102.6	16460.0	16742.8	16753.5	16870.9	16828.2	16908.2	17100.3	16710.8
45°	16689.5	16849.5	17473.8	18114.0	18396.8	18428.8	17649.9	17569.8	17020.3	16998.9	16497.4
47.5°	18071.4	18108.7	18620.9	19463.9	20120.2	19896.1	18658.3	18482.2	17511.1	17676.5	16854.9
50°	18151.4	18428.8	18887.7	19880.1	21896.9	21838.2	19965.5	19634.7	18300.8	18636.9	17852.6
52.5°	16476.0	16412.0	16956.2	18578.2	21763.5	23769.7	22131.7	21342.0	19997.5	19741.4	19469.3
55°	12554.4	12703.8	13184.0	14822.0	18898.4	23796.4	25082.2	24436.6	21811.6	21374.0	21059.2
56°	11012.5	11033.8	11487.3	12981.3	17244.4	22948.0	25642.4	25119.6	22713.3	22046.3	21566.1
57.5°	9129.1	9006.3	9241.1	10057.4	14555.3	21155.3	25028.9	25541.1	23769.7	22771.9	22105.0
60°	7186.9	7160.3	7064.2	7213.6	9198.4	15937.2	20835.2	21987.6	23663.0	22089.0	21171.3
62.5°	5869.1	5735.7	5927.7	6141.2	6391.9	9886.7	14640.6	15318.2	18786.3	17633.9	15905.1
65°	4551.2	4487.2	4727.3	5420.9	5570.3	6279.9	8339.4	8862.3	11092.5	10895.1	9593.2
67.5°	3131.9	3142.6	3350.7	4407.1	5164.8	5100.7	5106.1	5378.2	5789.0	4300.4	3745.5
70°	1984.8	1979.5	2091.5	2838.5	4156.4	4199.0	3985.6	3905.6	3702.8	2240.9	2374.3
72.5°	1275.2	1237.8	1296.5	1568.6	2150.2	2486.3	2561.0	2609.1	2144.9	1760.7	1910.1
75°	720.3	682.9	661.6	731.0	848.3	981.7	1077.8	1109.8	1243.2	1333.9	1413.9
77.5°	218.8	197.4	240.1	320.1	421.5	565.6	688.3	709.6	837.7	944.4	1024.4
80°	96.0	106.7	149.4	213.4	298.8	400.2	485.5	517.5	602.9	682.9	704.3
82.5°	58.7	64.0	101.4	144.1	208.1	282.8	346.8	357.5	442.8	506.9	522.9
85°	21.3	26.7	53.4	85.4	133.4	181.4	181.4	197.4	181.4	181.4	197.4
87.5°	0.0	0.0	5.3	10.7	10.7	16.0	21.3	21.3	26.7	32.0	37.3
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°	13760.3	13760.3	13760.3	13760.3	13760.3	13760.3	13760.3	13760.3	13760.3	13760.3	13760.3
2.5°	13797.6	13770.9	13728.3	13573.5	13557.5	13509.5	13242.7	13200.0	13242.7	13114.7	13125.3
5°	13770.9	13851.0	13530.8	13376.1	13088.0	12879.9	12639.8	12517.1	12298.3	12159.6	12314.4
7.5°	13888.3	13856.3	13456.1	13120.0	12687.8	12159.6	11738.1	11498.0	11113.9	11007.2	11087.2
10°	13845.6	13674.9	13205.4	12762.5	11946.2	11482.0	10799.1	10137.5	9774.6	9587.9	9561.2
12.5°	13787.0	13738.9	12954.6	12191.6	11332.6	10356.2	9395.8	8771.6	8179.3	7923.2	7960.6
15°	13856.3	13450.8	12485.1	11519.4	10377.6	9097.0	8062.0	7256.3	6845.5	6680.1	6680.1
17.5°	13824.3	13312.1	12261.0	10767.1	9321.1	7805.8	6669.4	6183.9	6013.1	6013.1	6061.1
20°	13840.3	13402.8	11807.5	10014.7	8072.6	6573.3	5746.3	5570.3	5645.0	5671.6	5698.3
22.5°	13931.0	13104.0	11364.6	9187.7	6914.8	5623.6	5218.1	5223.5	5356.8	5500.9	5474.2
25°	14043.1	12986.6	10825.7	8366.1	6029.1	5159.4	5031.4	5015.4	5116.8	5191.4	5202.1
27.5°	13947.0	12783.9	10276.2	7341.7	5303.5	4850.0	4823.3	4834.0	4866.0	5015.4	4967.4
30°	14261.8	12842.6	9587.9	6482.6	4903.3	4748.6	4716.6	4700.6	4748.6	4791.3	4753.9
32.5°	14651.3	12634.5	9075.7	5655.6	4705.9	4673.9	4609.9	4588.5	4615.2	4572.5	4593.9
35°	14822.0	12597.1	8408.8	5063.4	4551.2	4524.5	4487.2	4481.8	4487.2	4449.8	4417.8
37.5°	14918.1	12773.2	7645.8	4791.3	4455.1	4481.8	4396.5	4385.8	4289.7	4311.1	4327.1
40°	15083.5	12501.1	7026.9	4529.8	4396.5	4343.1	4268.4	4252.4	4188.4	4151.0	4188.4
42.5°	14843.4	12421.1	6418.6	4417.8	4311.1	4252.4	4199.0	4108.3	4087.0	4055.0	4033.6
45°	14651.3	11962.2	5874.4	4279.1	4209.7	4177.7	4076.3	3980.3	3900.3	3932.3	3884.2
47.5°	14795.4	11802.1	5335.5	4161.7	4071.0	4033.6	3932.3	3857.6	3777.5	3740.2	3729.5
50°	15371.6	12100.9	4882.0	4076.3	3953.6	3932.3	3798.9	3713.5	3638.8	3612.1	3622.8
52.5°	16748.2	12917.3	4572.5	3900.3	3841.6	3745.5	3670.8	3564.1	3516.1	3430.7	3484.1
55°	18492.9	14245.8	4492.5	3734.9	3702.8	3617.5	3516.1	3436.1	3345.4	3276.0	3260.0
56°	19053.1	14880.7	4428.5	3670.8	3617.5	3569.5	3436.1	3388.0	3244.0	3228.0	3217.3
57.5°	19506.6	15441.0	4439.1	3548.1	3494.8	3452.1	3372.0	3254.7	3158.6	3099.9	3126.6
60°	18482.2	14453.9	4236.4	3361.4	3350.7	3270.7	3158.6	3105.3	2987.9	2918.5	2902.5
62.5°	13738.9	9812.0	3436.1	3121.3	3115.9	3030.6	2902.5	2843.8	2822.5	2726.4	2726.4
65°	7912.6	6151.8	2971.9	2923.9	2881.2	2795.8	2667.8	2619.7	2566.4	2534.4	2507.7
67.5°	3377.4	3190.6	2699.8	2694.4	2646.4	2539.7	2411.6	2337.0	2267.6	2203.6	2235.6
70°	2449.0	2486.3	2438.3	2411.6	2353.0	2219.6	2107.5	2016.8	1910.1	1867.4	1899.4
72.5°	1942.1	2022.2	2091.5	2096.9	2027.5	1872.8	1750.0	1627.3	1509.9	1451.3	1477.9
75°	1472.6	1526.0	1595.3	1611.3	1509.9	1403.2	1285.9	1157.8	1067.1	997.7	1008.4
77.5°	1061.8	1051.1	1115.1	1104.4	1056.4	981.7	875.0	757.6	656.3	592.2	597.6
80°	725.6	741.6	779.0	773.6	715.0	666.9	586.9	490.9	416.2	362.8	352.1
82.5°	506.9	533.6	565.6	538.9	490.9	442.8	384.2	314.8	256.1	213.4	202.7
85°	181.4	208.1	240.1	256.1	272.1	261.4	218.8	176.1	128.1	106.7	101.4
87.5°	37.3	42.7	48.0	48.0	48.0	42.7	37.3	37.3	32.0	16.0	16.0
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)