

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: P533108

Luminaire Tested: **GALN-SA8C-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533108
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-SA8C-730-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA 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: 45133 lumens
Efficiency: N/A
Efficacy: 105.2 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

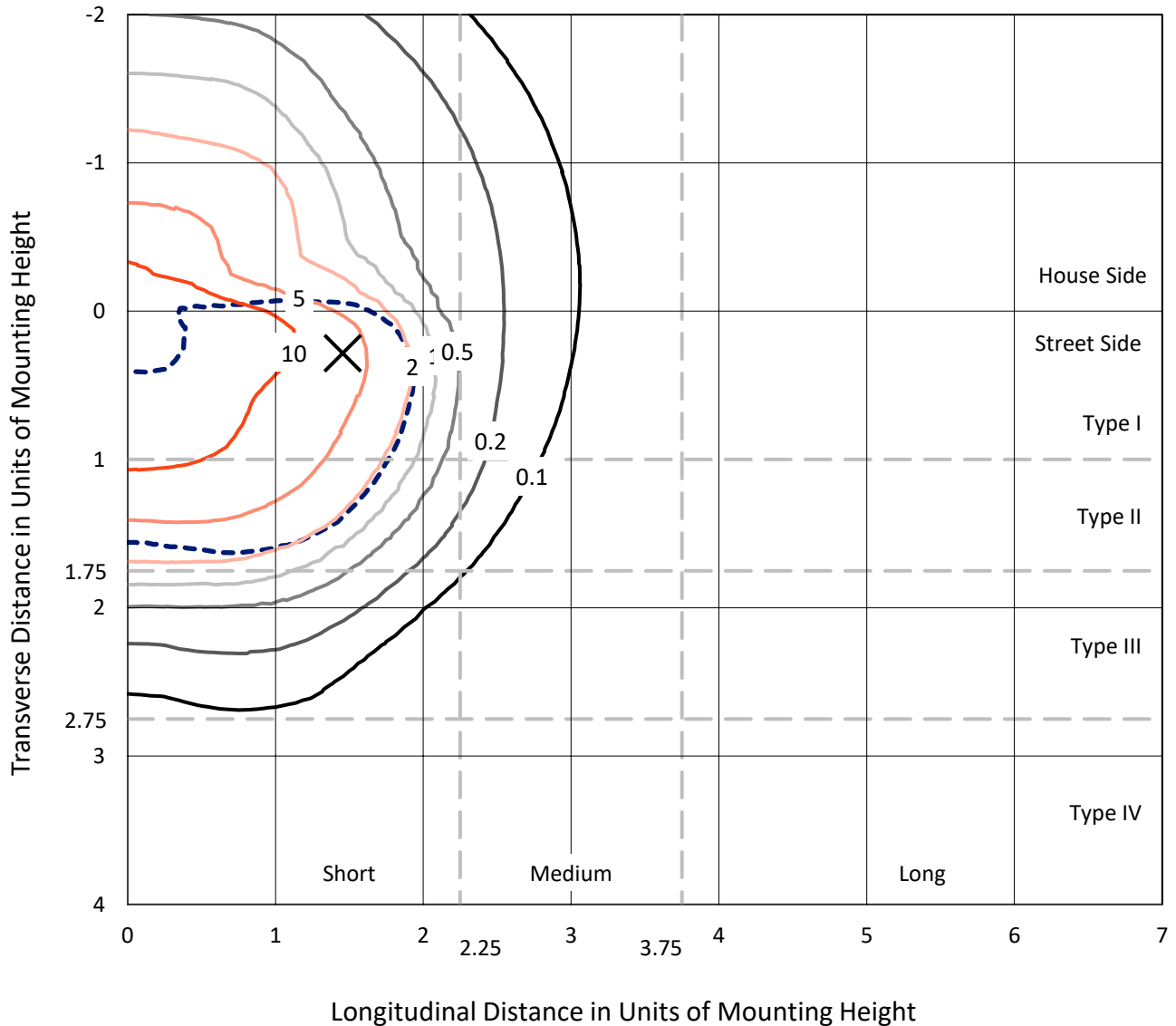
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

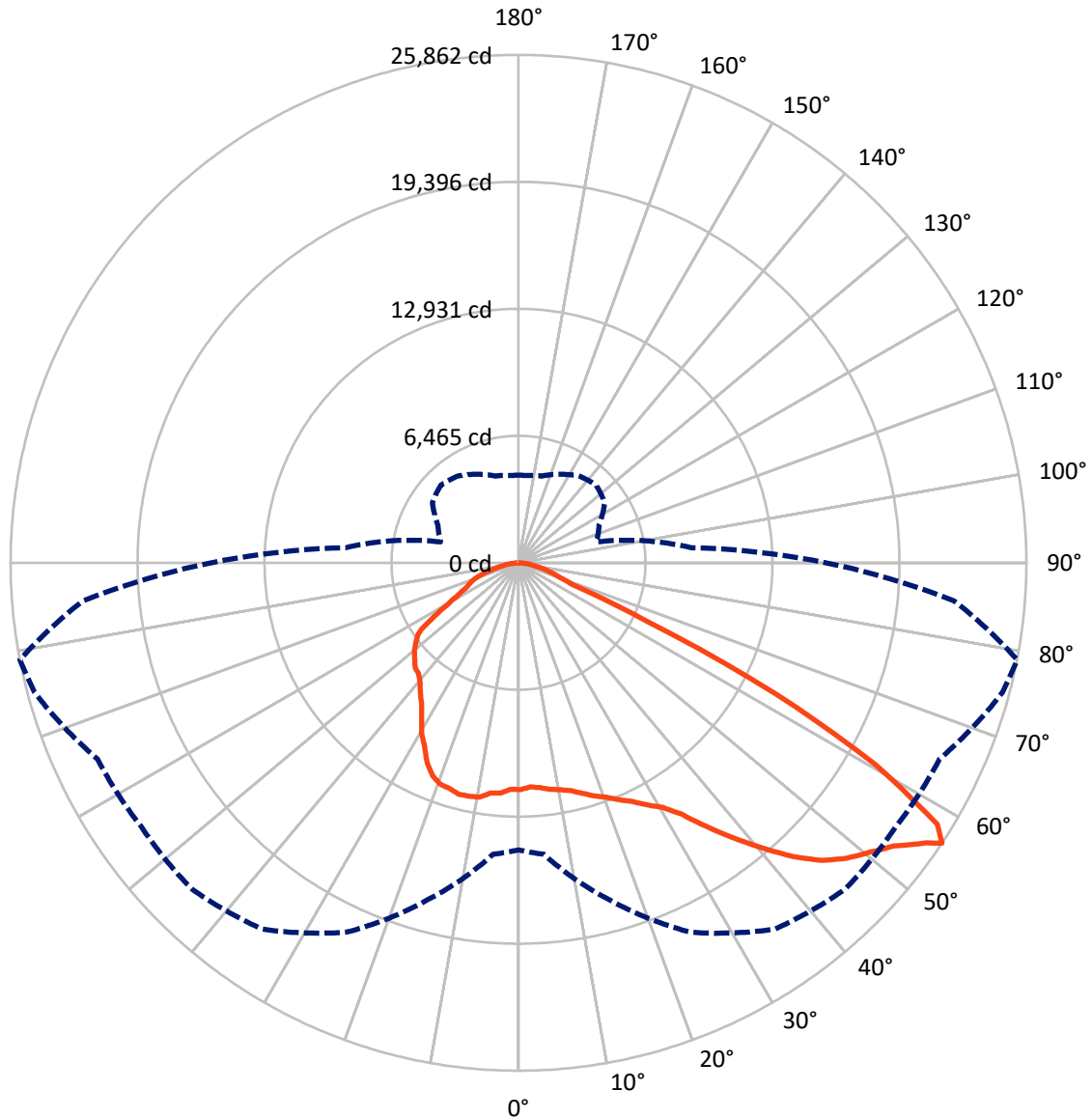
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 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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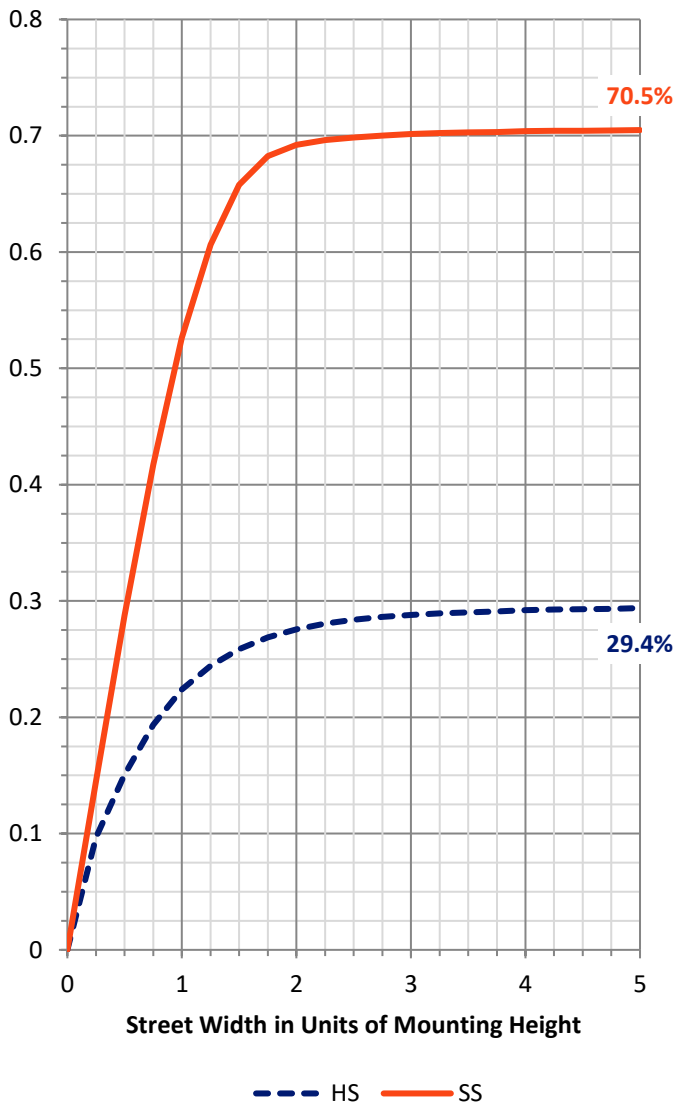
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13328.8	0.0	13328.8
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	31804.2	0.0	31804.2
	% Fixture	70.5	0.0	70.5
Total	Lumens	45133.0	0.0	45133.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1049.9	2.3
10°-20°	2873.3	6.4
20°-30°	4915.7	10.9
30°-40°	7533.9	16.7
40°-50°	10182.0	22.6
50°-60°	11694.4	25.9
60°-70°	5330.7	11.8
70°-80°	1314.3	2.9
80°-90°	238.9	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°	45133.0	100.0
0°-180°	45133.0	100.0

Coefficient of Utilization

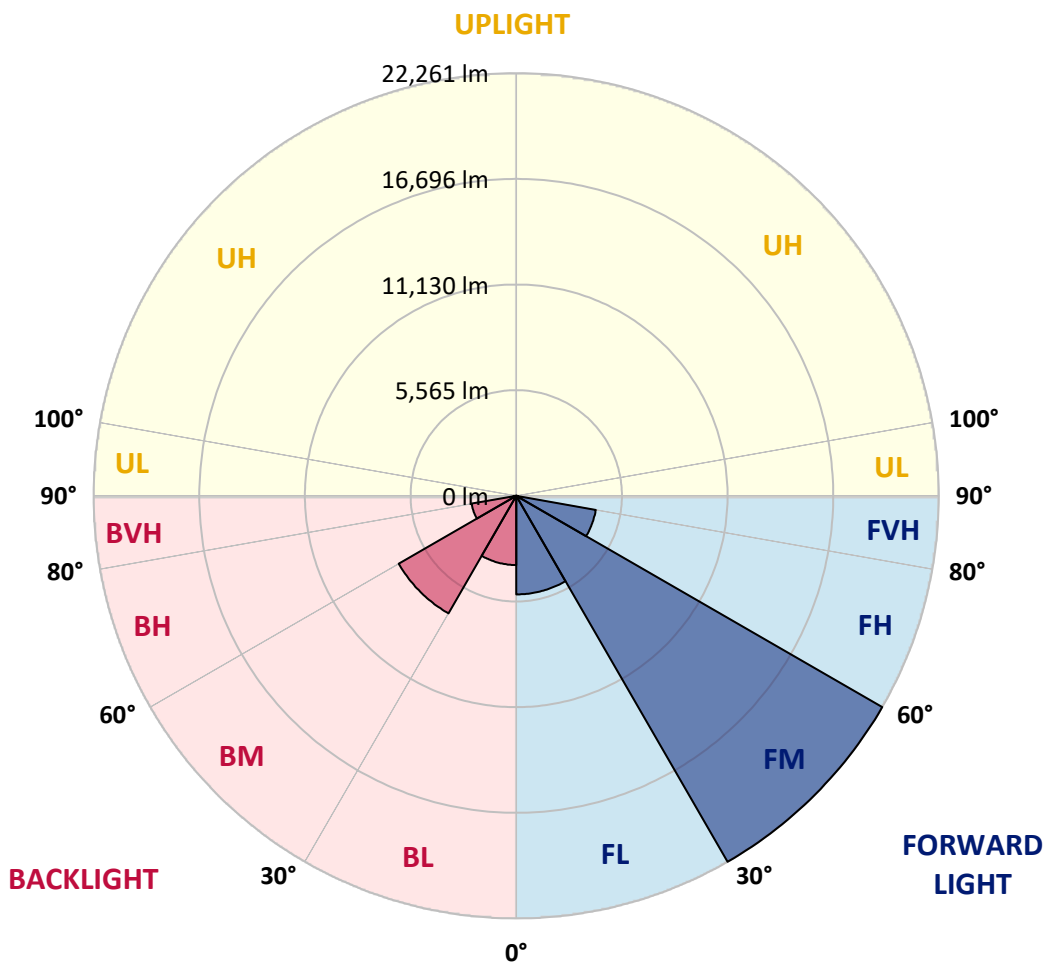


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5192.9	11.5			
FM (30°-60°)	22260.9	49.3			
FH (60°-80°)	4255.0	9.4			G2/5000
FVH (80°-90°)	95.4	0.2			G1/100
BL (0°-30°)	3646.0	8.1	B4/5000		
BM (30°-60°)	7149.4	15.8	B4/8500		
BH (60°-80°)	2389.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	143.5	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°	55°	65°	75°	79°	85°
0°	11547.7	11547.7	11547.7	11547.7	11547.7	11547.7	11547.7	11547.7	11547.7	11547.7	11547.7
2.5°	10985.5	10957.4	11024.9	11075.5	11137.3	11216.0	11255.4	11277.9	11474.7	11424.1	11575.9
5°	10749.4	10676.3	10726.9	10766.3	10873.1	10968.7	11075.5	11244.2	11424.1	11502.8	11688.3
7.5°	10541.4	10502.0	10490.8	10518.9	10665.1	10788.8	10974.3	11221.7	11514.0	11643.3	11750.1
10°	10198.4	10142.2	10226.6	10412.1	10451.4	10710.1	10923.7	11277.9	11530.9	11755.8	12070.6
12.5°	10046.7	9990.4	10007.3	10114.1	10389.6	10637.0	10890.0	11289.1	11823.2	11913.2	12334.8
15°	10288.4	10232.2	10249.0	10220.9	10485.2	10614.5	11013.7	11514.0	12025.6	12177.4	12627.2
17.5°	10839.4	10845.0	10771.9	10710.1	10648.2	10923.7	11199.2	11648.9	12104.3	12486.6	12824.0
20°	11890.7	11705.2	11559.0	11210.4	11114.8	11232.9	11581.5	12014.4	12424.8	12739.6	13121.9
22.5°	12700.3	12717.1	12509.1	11935.7	11727.7	11778.3	12076.2	12430.4	12880.2	13105.1	13543.6
25°	13875.3	13757.2	13532.3	13077.0	12610.3	12649.7	12868.9	13189.4	13313.1	13470.5	13948.4
27.5°	14949.1	14982.8	14538.7	14111.4	13532.3	13419.9	13813.4	13869.7	13661.6	13959.6	14122.7
30°	16039.8	16011.7	15719.3	15219.0	14651.1	14673.6	14847.9	14572.4	14285.7	14448.7	14561.2
32.5°	17169.8	16849.4	16838.1	16388.4	15955.5	15747.4	15533.8	15668.7	15224.6	15258.3	15151.5
35°	18075.0	18120.0	17861.3	17540.9	17327.2	16961.8	16377.1	16618.9	16534.5	16495.2	16034.2
37.5°	18732.8	18558.5	18687.8	18581.0	18378.6	17923.2	17316.0	17546.5	17585.9	17777.0	17242.9
40°	19272.5	19199.4	19542.3	19598.6	19458.0	18474.1	17383.5	18069.4	18659.7	19075.7	18440.4
42.5°	19531.1	19688.5	20048.3	20481.2	20166.4	19115.1	17732.0	18468.5	19784.1	20441.9	19576.1
45°	19879.7	19677.3	20211.4	21004.1	21009.7	19654.8	18069.4	19008.2	20661.1	21616.9	20351.9
47.5°	19525.5	19626.7	20177.6	21184.0	21442.6	20222.6	18980.1	19772.8	21628.1	22477.1	21071.5
50°	18732.8	18935.2	19941.5	20987.2	21768.7	20824.2	20025.8	20599.3	22522.0	23168.6	21189.6
52.5°	17906.3	18018.8	19592.9	21139.0	21914.9	21600.0	21425.7	21740.6	23612.7	23950.1	21335.8
55°	15657.5	16191.6	18440.4	21071.5	22628.9	22999.9	22865.0	23326.0	24849.6	25186.9	22134.1
56°	14617.4	14898.5	17748.9	20756.7	22769.4	23511.5	23444.1	23652.1	25507.4	25861.6	22257.8
57.5°	12694.7	12717.1	15134.6	19362.4	22240.9	23663.3	23595.9	23758.9	25378.1	25136.3	21172.7
60°	7944.0	8292.6	10299.6	14892.9	18912.7	21954.2	22336.5	21026.6	21397.6	20886.0	16472.7
62.5°	4115.4	4064.8	5397.2	8708.6	12554.1	15719.3	16073.5	16011.7	15438.2	14690.5	10760.7
65°	2052.1	2063.3	2822.3	4312.1	6431.7	8230.7	9220.2	9327.0	7803.4	7179.4	5104.8
67.5°	1489.9	1546.1	2029.6	2636.8	3030.3	3390.1	4154.7	4076.0	3086.5	2934.7	2721.1
70°	1158.1	1208.7	1647.3	2012.7	1827.2	1827.2	1990.2	2057.7	2198.2	2260.1	2333.2
72.5°	843.3	882.7	1259.3	1388.7	1197.5	1287.5	1489.9	1647.3	1793.4	1815.9	1900.3
75°	579.1	612.8	826.4	764.6	719.6	888.3	1090.7	1236.9	1343.7	1399.9	1450.5
77.5°	376.7	387.9	472.3	399.2	461.0	573.5	708.4	832.1	938.9	983.9	995.1
80°	168.7	185.5	202.4	253.0	320.5	410.4	506.0	607.2	674.6	691.5	725.2
82.5°	95.6	95.6	123.7	179.9	236.1	298.0	365.4	438.5	517.2	534.1	528.5
85°	50.6	50.6	73.1	106.8	146.2	174.3	168.7	174.3	185.5	213.6	208.0
87.5°	16.9	16.9	22.5	22.5	28.1	33.7	28.1	39.4	50.6	50.6	50.6
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°	11547.7	11547.7	11547.7	11547.7	11547.7	11547.7	11547.7	11547.7	11547.7	11547.7	11547.7
2.5°	11530.9	11581.5	11514.0	11660.2	11660.2	11632.1	11491.5	11536.5	11570.2	11570.2	11598.3
5°	11750.1	11733.3	11778.3	11604.0	11497.1	11457.8	11227.3	11114.8	11019.3	11013.7	10929.3
7.5°	11873.8	11828.9	11812.0	11682.7	11210.4	10923.7	10429.0	10142.2	10080.4	9861.1	9945.5
10°	12070.6	12154.9	12070.6	11367.8	10710.1	10052.3	9568.8	9124.6	8950.3	8809.8	8725.5
12.5°	12475.4	12436.0	11946.9	10996.8	10074.8	9293.3	8573.7	8107.0	7932.8	7809.1	7797.8
15°	12818.3	12621.6	11873.8	10412.1	9085.3	8253.2	7662.9	7331.2	7252.5	7263.7	7314.3
17.5°	12936.4	12801.5	11491.5	9804.9	8348.8	7370.5	7095.1	7044.5	7117.6	7201.9	7224.4
20°	13121.9	12908.3	11334.1	8978.5	7438.0	6819.6	6802.7	6982.6	7117.6	7241.2	7258.1
22.5°	13509.9	12970.1	10822.5	8197.0	6814.0	6656.5	6819.6	6971.4	7179.4	7280.6	7190.6
25°	13622.3	12835.2	10102.9	7258.1	6420.4	6555.3	6729.6	6937.6	7083.8	7140.0	7179.4
27.5°	13717.9	12627.2	9130.3	6634.1	6296.7	6549.7	6729.6	6903.9	6982.6	7033.2	7078.2
30°	13987.7	12565.3	8286.9	6218.0	6218.0	6437.3	6667.8	6712.8	6819.6	6881.4	6960.1
32.5°	14122.7	12138.1	7421.1	5953.8	6139.3	6493.5	6510.4	6594.7	6600.3	6650.9	6566.6
35°	14476.8	11834.5	6617.2	5762.6	6173.0	6437.3	6521.6	6471.0	6195.5	6060.6	6088.7
37.5°	14735.5	11682.7	6038.1	5740.1	6178.7	6499.1	6544.1	6161.8	5875.1	5650.2	5706.4
40°	15432.6	11306.0	5599.6	5700.8	6229.3	6566.6	6442.9	6026.9	5509.6	5279.1	5239.8
42.5°	15966.7	11036.1	5324.1	5655.8	6268.6	6662.2	6392.3	5757.0	5228.5	5014.9	5071.1
45°	16585.1	10974.3	5177.9	5667.1	6336.1	6712.8	6330.5	5549.0	4986.8	4902.5	4885.6
47.5°	16804.4	10530.2	5020.5	5571.5	6319.2	6695.9	6122.4	5391.6	4896.8	4908.1	4953.1
50°	16439.0	10074.8	4902.5	5374.7	6206.8	6544.1	5796.4	5183.6	4846.2	4986.8	5065.5
52.5°	15972.3	9608.1	4660.7	5110.5	5976.3	6308.0	5644.6	5172.3	4795.6	4750.7	4767.5
55°	16112.9	9225.8	4323.4	4750.7	5605.2	5869.4	5475.9	5065.5	4671.9	4503.3	4559.5
56°	15657.5	8832.3	4104.1	4525.8	5352.2	5588.3	5391.6	4969.9	4570.7	4458.3	4458.3
57.5°	14370.0	7511.1	3817.4	4166.0	4818.1	5099.2	5228.5	4913.7	4458.3	4261.5	4267.2
60°	10597.6	5341.0	3423.8	3671.2	3991.7	4216.6	4818.1	4756.3	4177.2	4042.3	3991.7
62.5°	6532.9	3901.7	3142.7	3238.3	3401.4	3586.9	4205.3	4306.5	3879.2	3733.1	3699.3
65°	3660.0	2985.3	2929.1	2968.5	3047.2	3142.7	3491.3	3716.2	3423.8	3199.0	3187.7
67.5°	2676.1	2670.5	2715.5	2749.2	2782.9	2782.9	2867.3	2957.2	2917.9	2738.0	2721.1
70°	2378.1	2395.0	2428.7	2434.4	2445.6	2406.2	2338.8	2310.7	2355.7	2243.2	2220.7
72.5°	1962.1	2018.3	2057.7	2063.3	2001.5	1950.9	1860.9	1765.3	1731.6	1709.1	1703.5
75°	1506.7	1546.1	1562.9	1557.3	1534.8	1461.7	1354.9	1259.3	1197.5	1130.0	1163.8
77.5°	1017.6	1073.8	1101.9	1101.9	1068.2	955.8	905.2	832.1	770.2	697.1	708.4
80°	714.0	753.4	798.3	792.7	736.5	680.3	607.2	539.7	489.1	432.9	427.3
82.5°	534.1	556.6	579.1	567.8	528.5	472.3	421.7	359.8	303.6	264.2	264.2
85°	191.2	208.0	253.0	264.2	286.7	286.7	241.7	202.4	163.0	134.9	134.9
87.5°	56.2	56.2	61.8	61.8	56.2	61.8	50.6	56.2	61.8	39.4	39.4
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)