

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: P532406

Luminaire Tested: **GALN-SA7D-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532406
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-SA7D-730-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 42836 lumens
Efficiency: N/A
Efficacy: 98.9 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

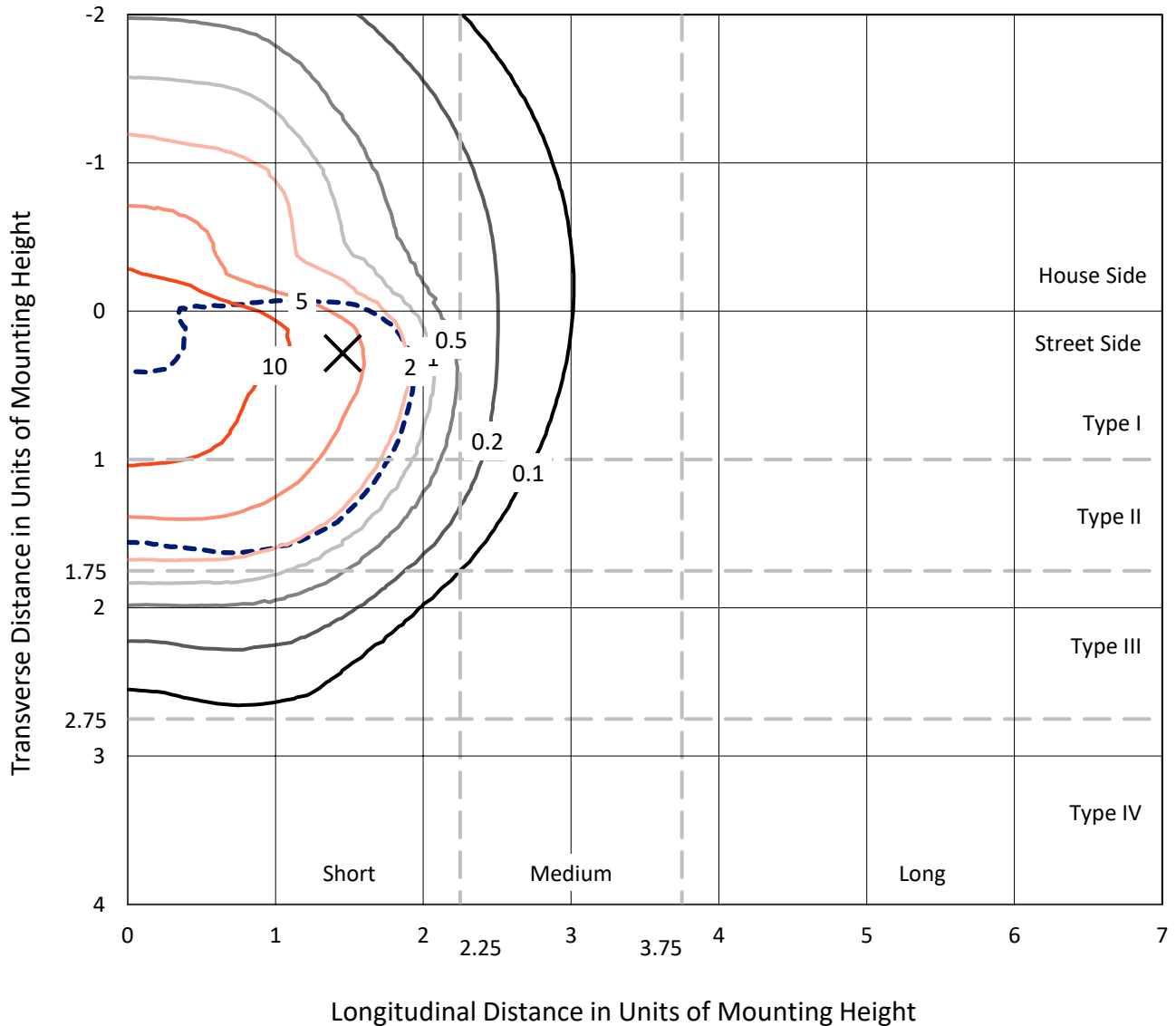
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

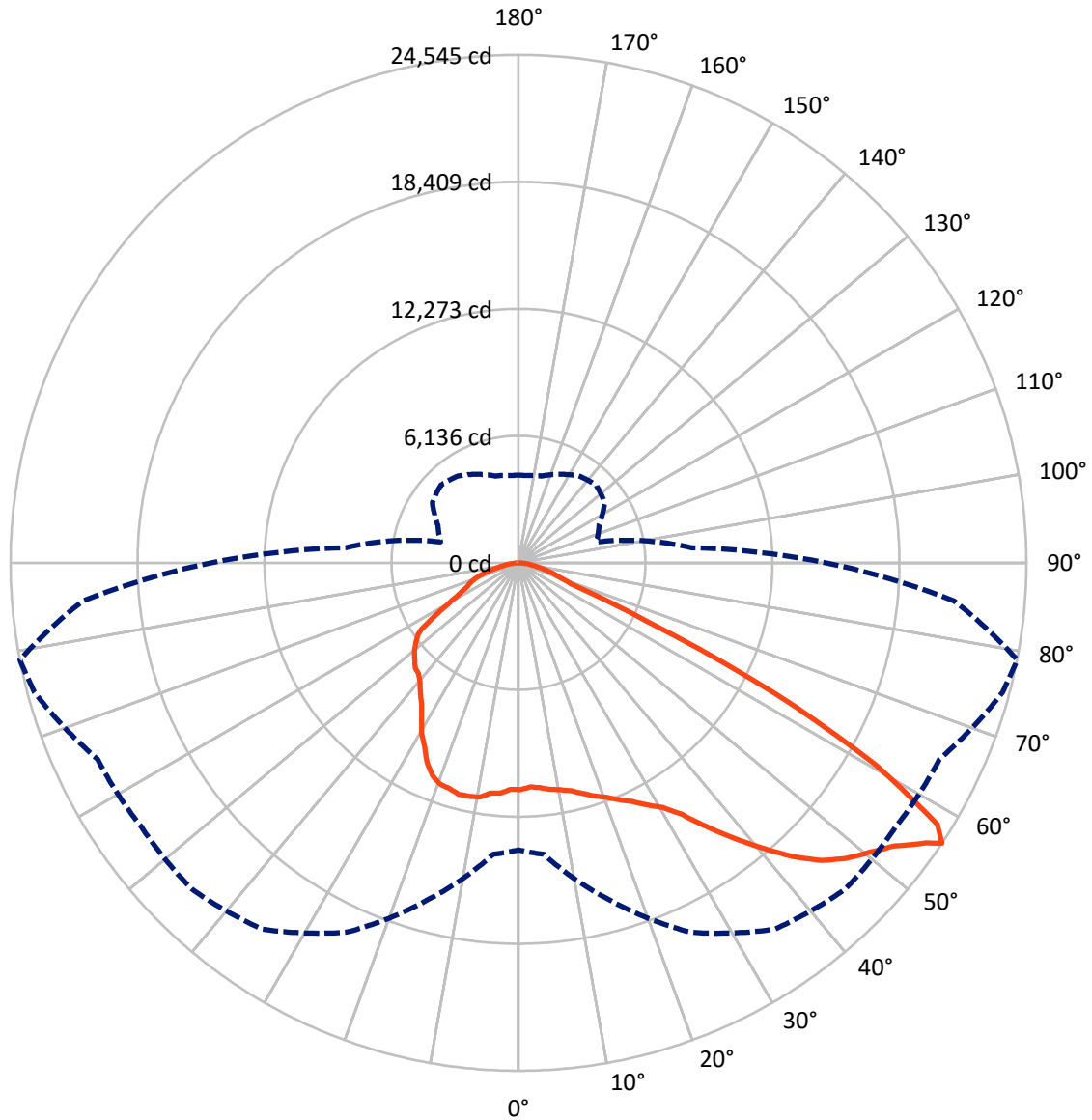
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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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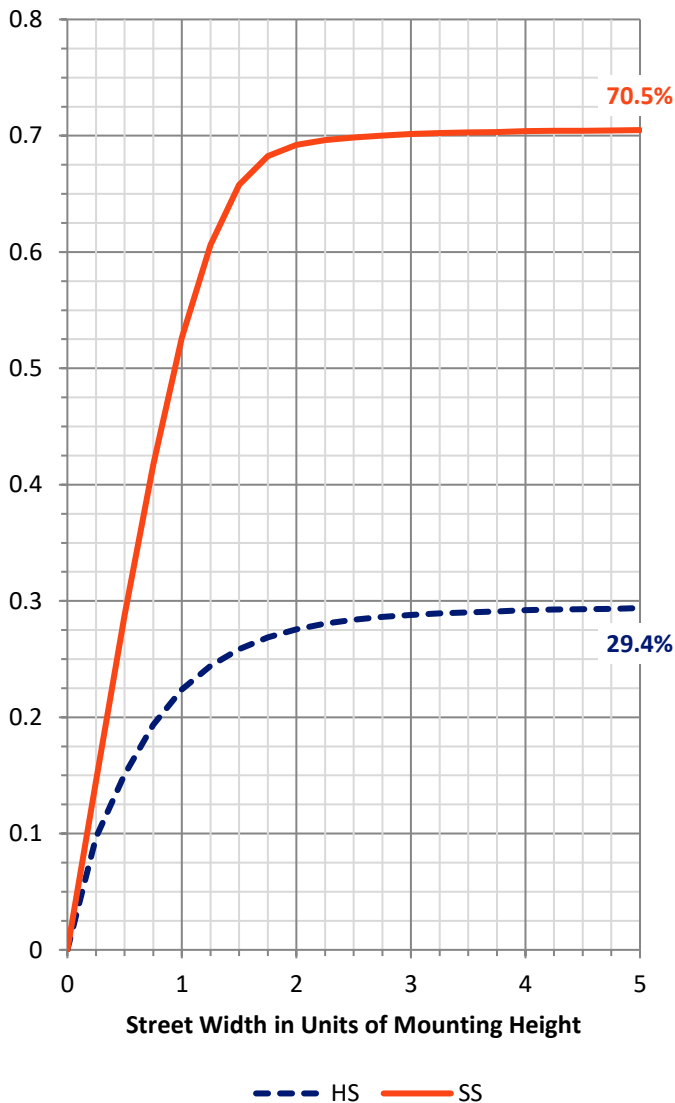
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12650.4	0.0	12650.4
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	30185.6	0.0	30185.6
	% Fixture	70.5	0.0	70.5
Total	Lumens	42836.0	0.0	42836.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	996.5	2.3
10°-20°	2727.1	6.4
20°-30°	4665.5	10.9
30°-40°	7150.5	16.7
40°-50°	9663.8	22.6
50°-60°	11099.2	25.9
60°-70°	5059.4	11.8
70°-80°	1247.4	2.9
80°-90°	226.7	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°	42836.0	100.0
0°-180°	42836.0	100.0



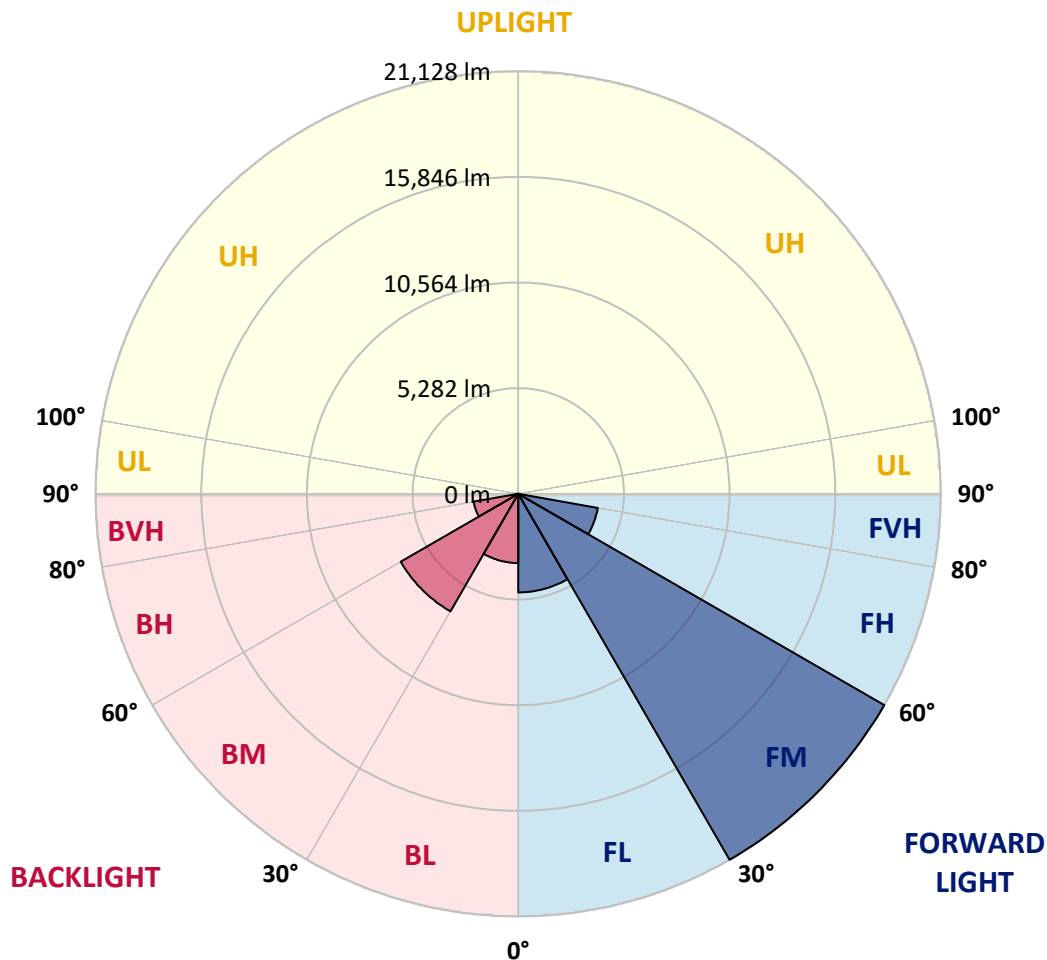
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4928.6	11.5			
FM (30°-60°)	21128.0	49.3			
FH (60°-80°)	4038.5	9.4			G2/5000
FVH (80°-90°)	90.5	0.2			G1/100
BL (0°-30°)	3460.4	8.1	B4/5000		
BM (30°-60°)	6785.5	15.8	B4/8500		
BH (60°-80°)	2268.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	136.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	10960.0	10960.0	10960.0	10960.0	10960.0	10960.0	10960.0	10960.0	10960.0	10960.0	10960.0
2.5°	10426.4	10399.8	10463.8	10511.8	10570.5	10645.2	10682.6	10703.9	10890.7	10842.6	10986.7
5°	10202.3	10133.0	10181.0	10218.3	10319.7	10410.4	10511.8	10671.9	10842.6	10917.3	11093.4
7.5°	10004.9	9967.5	9956.9	9983.6	10122.3	10239.7	10415.8	10650.6	10928.0	11050.7	11152.1
10°	9679.4	9626.0	9706.1	9882.2	9919.5	10165.0	10367.7	10703.9	10944.0	11157.5	11456.3
12.5°	9535.3	9482.0	9498.0	9599.4	9860.8	10095.6	10335.7	10714.6	11221.5	11306.9	11707.1
15°	9764.8	9711.4	9727.4	9700.8	9951.5	10074.3	10453.1	10928.0	11413.6	11557.7	11984.5
17.5°	10287.7	10293.0	10223.7	10165.0	10106.3	10367.7	10629.2	11056.1	11488.3	11851.1	12171.3
20°	11285.5	11109.4	10970.7	10639.9	10549.2	10661.2	10992.1	11402.9	11792.4	12091.3	12454.1
22.5°	12053.9	12069.9	11872.5	11328.2	11130.8	11178.8	11461.6	11797.8	12224.7	12438.1	12854.3
25°	13169.1	13057.1	12843.6	12411.4	11968.5	12005.9	12214.0	12518.1	12635.5	12784.9	13238.5
27.5°	14188.3	14220.3	13798.8	13393.2	12843.6	12736.9	13110.4	13163.8	12966.4	13249.2	13403.9
30°	15223.5	15196.8	14919.3	14444.4	13905.5	13926.8	14092.2	13830.8	13558.6	13713.4	13820.1
32.5°	16296.0	15991.8	15981.2	15554.3	15143.4	14946.0	14743.2	14871.3	14449.7	14481.8	14380.4
35°	17155.1	17197.8	16952.3	16648.2	16445.4	16098.6	15543.6	15773.1	15693.0	15655.7	15218.1
37.5°	17779.4	17614.0	17736.7	17635.3	17443.2	17011.0	16434.7	16653.5	16690.8	16872.3	16365.4
40°	18291.6	18222.3	18547.8	18601.1	18467.7	17533.9	16498.7	17149.7	17710.0	18104.9	17501.9
42.5°	18537.1	18686.5	19028.0	19438.9	19140.0	18142.2	16829.6	17528.6	18777.2	19401.5	18579.8
45°	18867.9	18675.8	19182.7	19935.1	19940.4	18654.5	17149.7	18040.8	19609.6	20516.7	19316.1
47.5°	18531.7	18627.8	19150.7	20105.9	20351.3	19193.4	18014.2	18766.5	20527.4	21333.1	19999.1
50°	17779.4	17971.5	18926.6	19919.1	20660.8	19764.3	19006.6	19550.9	21375.8	21989.4	20111.2
52.5°	16995.0	17101.7	18595.8	20063.2	20799.5	20500.7	20335.3	20634.1	22411.0	22731.1	20249.9
55°	14860.6	15367.5	17501.9	19999.1	21477.2	21829.4	21701.3	22138.8	23584.9	23905.0	21007.6
56°	13873.5	14140.3	16845.6	19700.3	21610.6	22314.9	22250.9	22448.3	24209.2	24545.4	21125.0
57.5°	12048.6	12069.9	14364.4	18377.0	21109.0	22459.0	22395.0	22549.7	24086.5	23857.0	20095.2
60°	7539.7	7870.5	9775.5	14134.9	17950.1	20836.9	21199.7	19956.4	20308.6	19823.0	15634.3
62.5°	3905.9	3857.9	5122.5	8265.4	11915.2	14919.3	15255.5	15196.8	14652.5	13942.8	10213.0
65°	1947.6	1958.3	2678.6	4092.7	6104.3	7811.8	8751.0	8852.3	7406.3	6814.0	4845.0
67.5°	1414.0	1467.4	1926.3	2502.6	2876.1	3217.6	3943.3	3868.6	2929.4	2785.4	2582.6
70°	1099.2	1147.2	1563.4	1910.3	1734.2	1734.2	1888.9	1953.0	2086.4	2145.1	2214.4
72.5°	800.4	837.7	1195.3	1318.0	1136.6	1221.9	1414.0	1563.4	1702.2	1723.5	1803.6
75°	549.6	581.6	784.4	725.7	683.0	843.1	1035.2	1173.9	1275.3	1328.7	1376.7
77.5°	357.5	368.2	448.2	378.9	437.5	544.3	672.3	789.7	891.1	933.8	944.5
80°	160.1	176.1	192.1	240.1	304.1	389.5	480.2	576.3	640.3	656.3	688.3
82.5°	90.7	90.7	117.4	170.8	224.1	282.8	346.8	416.2	490.9	506.9	501.6
85°	48.0	48.0	69.4	101.4	138.7	165.4	160.1	165.4	176.1	202.8	197.4
87.5°	16.0	16.0	21.3	21.3	26.7	32.0	26.7	37.4	48.0	48.0	48.0
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°	10960.0	10960.0	10960.0	10960.0	10960.0	10960.0	10960.0	10960.0	10960.0	10960.0	10960.0
2.5°	10944.0	10992.1	10928.0	11066.8	11066.8	11040.1	10906.7	10949.4	10981.4	10981.4	11008.1
5°	11152.1	11136.1	11178.8	11013.4	10912.0	10874.7	10655.9	10549.2	10458.5	10453.1	10373.1
7.5°	11269.5	11226.8	11210.8	11088.1	10639.9	10367.7	9898.2	9626.0	9567.4	9359.3	9439.3
10°	11456.3	11536.3	11456.3	10789.3	10165.0	9540.7	9081.8	8660.2	8494.8	8361.4	8281.4
12.5°	11840.5	11803.1	11338.9	10437.1	9562.0	8820.3	8137.3	7694.4	7529.0	7411.6	7401.0
15°	12166.0	11979.2	11269.5	9882.2	8622.9	7833.2	7272.9	6958.1	6883.4	6894.0	6942.1
17.5°	12278.0	12150.0	10906.7	9305.9	7923.9	6995.4	6734.0	6685.9	6755.3	6835.3	6856.7
20°	12454.1	12251.3	10757.3	8521.5	7059.5	6472.5	6456.5	6627.2	6755.3	6872.7	6888.7
22.5°	12822.3	12310.0	10271.7	7779.8	6467.2	6317.8	6472.5	6616.6	6814.0	6910.1	6824.7
25°	12929.0	12182.0	9588.7	6888.7	6093.7	6221.7	6387.1	6584.6	6723.3	6776.7	6814.0
27.5°	13019.7	11984.5	8665.6	6296.4	5976.3	6216.4	6387.1	6552.5	6627.2	6675.3	6718.0
30°	13275.8	11925.8	7865.2	5901.6	5901.6	6109.7	6328.4	6371.1	6472.5	6531.2	6605.9
32.5°	13403.9	11520.3	7043.5	5650.8	5826.9	6163.0	6179.0	6259.1	6264.4	6312.4	6232.4
35°	13740.1	11232.2	6280.4	5469.3	5858.9	6109.7	6189.7	6141.7	5880.2	5752.2	5778.8
37.5°	13985.5	11088.1	5730.8	5448.0	5864.2	6168.4	6211.0	5848.2	5576.1	5362.6	5416.0
40°	14647.2	10730.6	5314.6	5410.7	5912.2	6232.4	6115.0	5720.1	5229.2	5010.5	4973.1
42.5°	15154.1	10474.5	5053.1	5368.0	5949.6	6323.1	6067.0	5464.0	4962.4	4759.7	4813.0
45°	15741.0	10415.8	4914.4	5378.6	6013.6	6371.1	6008.3	5266.6	4733.0	4652.9	4636.9
47.5°	15949.1	9994.2	4765.0	5287.9	5997.6	6355.1	5810.8	5117.2	4647.6	4658.3	4701.0
50°	15602.3	9562.0	4652.9	5101.2	5890.9	6211.0	5501.4	4919.7	4599.6	4733.0	4807.7
52.5°	15159.4	9119.1	4423.5	4850.4	5672.1	5986.9	5357.3	4909.1	4551.6	4508.9	4524.9
55°	15292.8	8756.3	4103.3	4508.9	5319.9	5570.7	5197.2	4807.7	4434.2	4274.1	4327.5
56°	14860.6	8382.8	3895.2	4295.4	5079.8	5303.9	5117.2	4717.0	4338.1	4231.4	4231.4
57.5°	13638.7	7128.8	3623.1	3953.9	4572.9	4839.7	4962.4	4663.6	4231.4	4044.6	4050.0
60°	10058.3	5069.2	3249.6	3484.4	3788.5	4002.0	4572.9	4514.2	3964.6	3836.5	3788.5
62.5°	6200.4	3703.1	2982.8	3073.5	3228.2	3404.3	3991.3	4087.3	3681.8	3543.1	3511.1
65°	3473.7	2833.4	2780.0	2817.4	2892.1	2982.8	3313.6	3527.1	3249.6	3036.2	3025.5
67.5°	2539.9	2534.6	2577.3	2609.3	2641.3	2641.3	2721.3	2806.7	2769.4	2598.6	2582.6
70°	2257.1	2273.1	2305.1	2310.5	2321.1	2283.8	2219.8	2193.1	2235.8	2129.0	2107.7
72.5°	1862.2	1915.6	1953.0	1958.3	1899.6	1851.6	1766.2	1675.5	1643.5	1622.1	1616.8
75°	1430.0	1467.4	1483.4	1478.1	1456.7	1387.3	1286.0	1195.3	1136.6	1072.5	1104.5
77.5°	965.8	1019.2	1045.8	1045.8	1013.8	907.1	859.1	789.7	731.0	661.7	672.3
80°	677.7	715.0	757.7	752.4	699.0	645.6	576.3	512.3	464.2	410.9	405.5
82.5°	506.9	528.3	549.6	538.9	501.6	448.2	400.2	341.5	288.1	250.8	250.8
85°	181.4	197.4	240.1	250.8	272.1	272.1	229.4	192.1	154.7	128.1	128.1
87.5°	53.4	53.4	58.7	58.7	53.4	58.7	48.0	53.4	58.7	37.4	37.4
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)