

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: P532169

Luminaire Tested: **GALN-SA7C-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26631 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

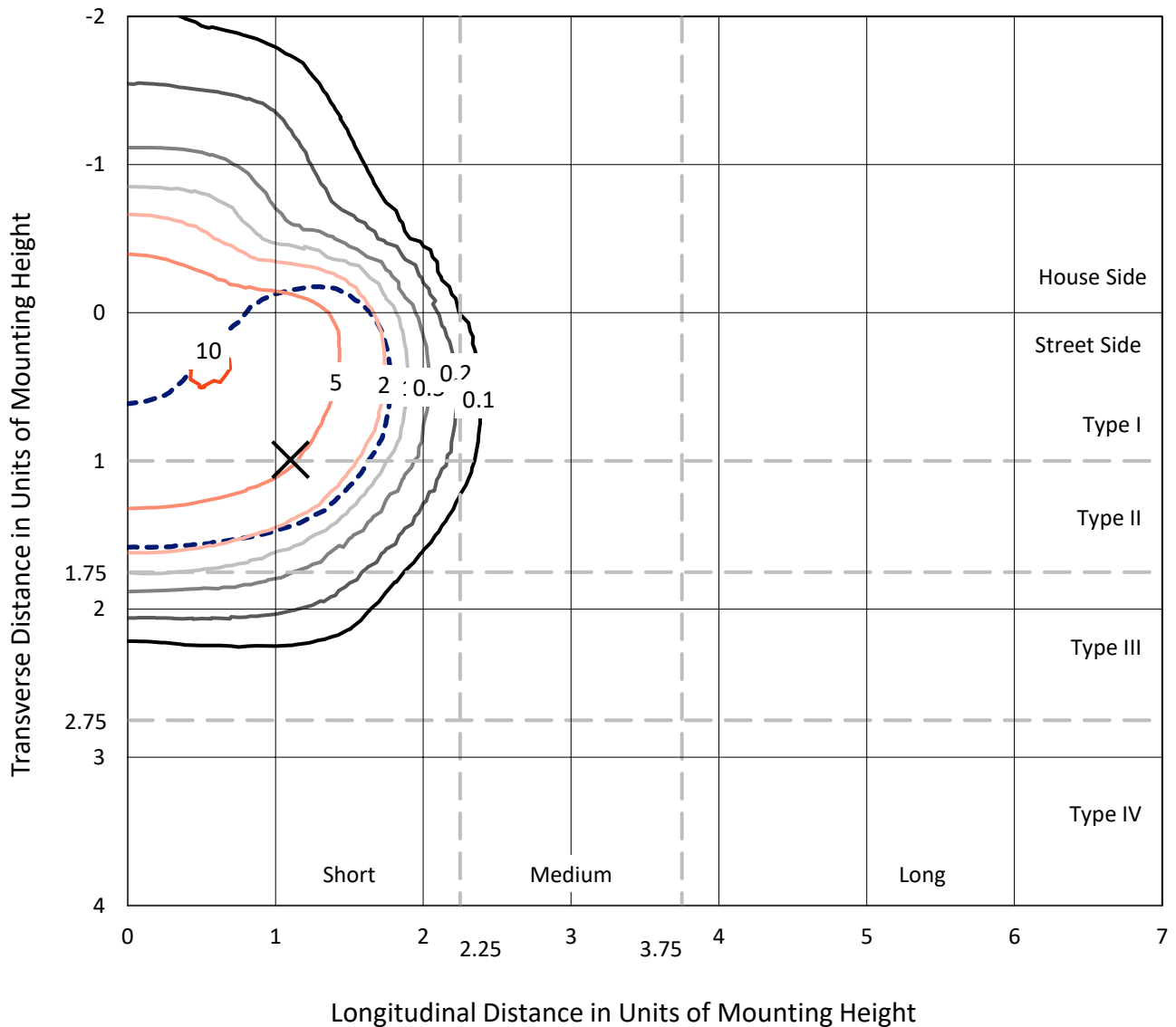
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

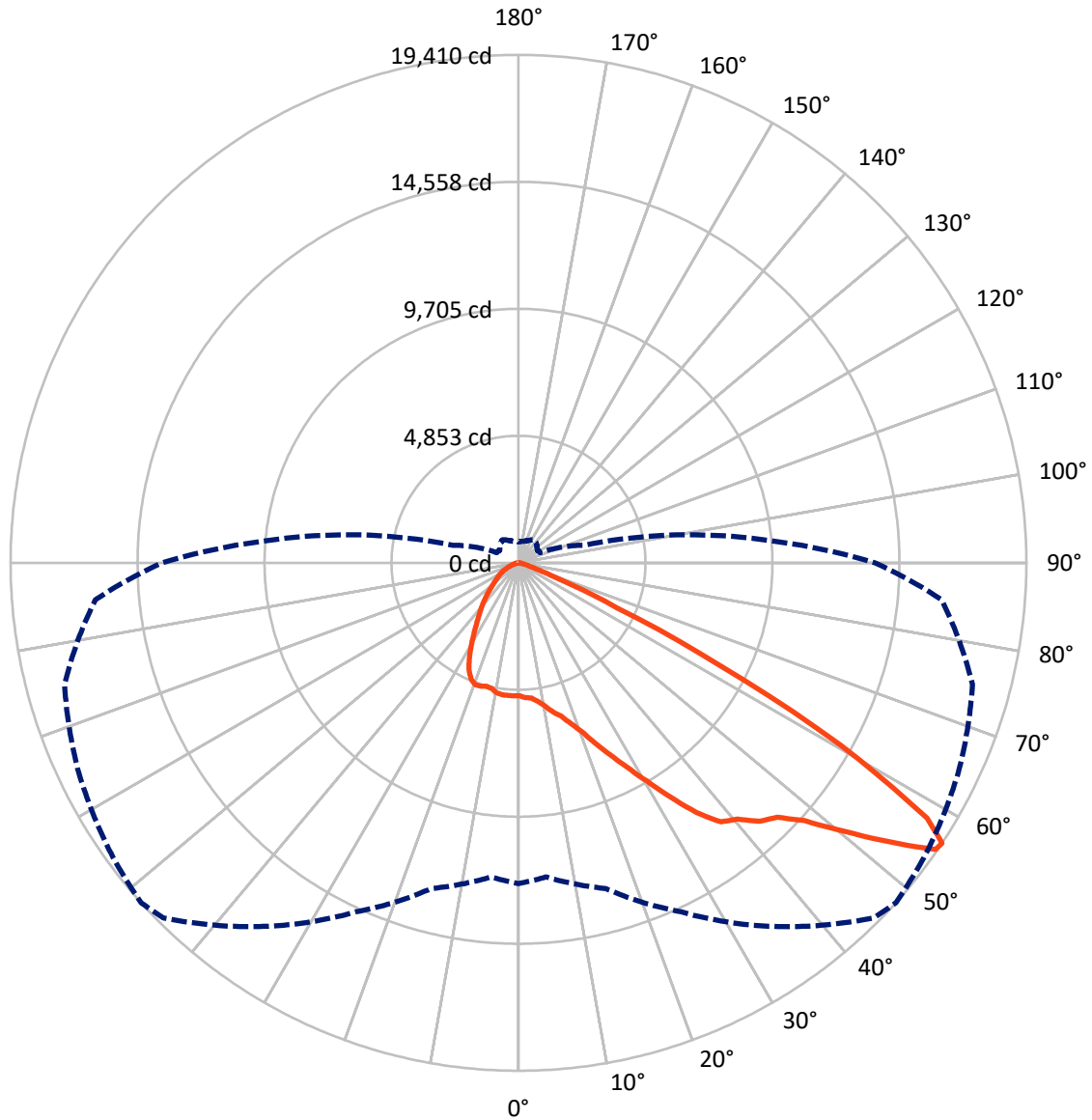
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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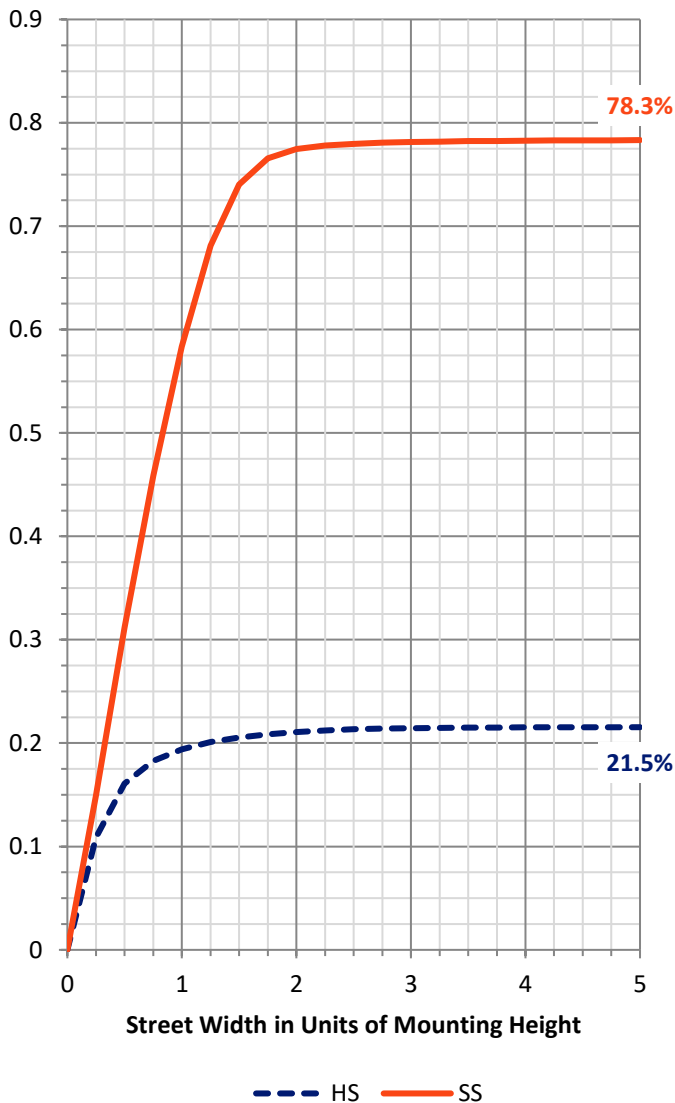
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5791.7	0.0	5791.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	20839.2	0.0	20839.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	26631.0	0.0	26631.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.5	1.9
10°-20°	1583.5	5.9
20°-30°	2872.1	10.8
30°-40°	4511.5	16.9
40°-50°	6581.5	24.7
50°-60°	7929.4	29.8
60°-70°	2321.7	8.7
70°-80°	294.5	1.1
80°-90°	41.3	0.2
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°	26631.0	100.0
0°-180°	26631.0	100.0



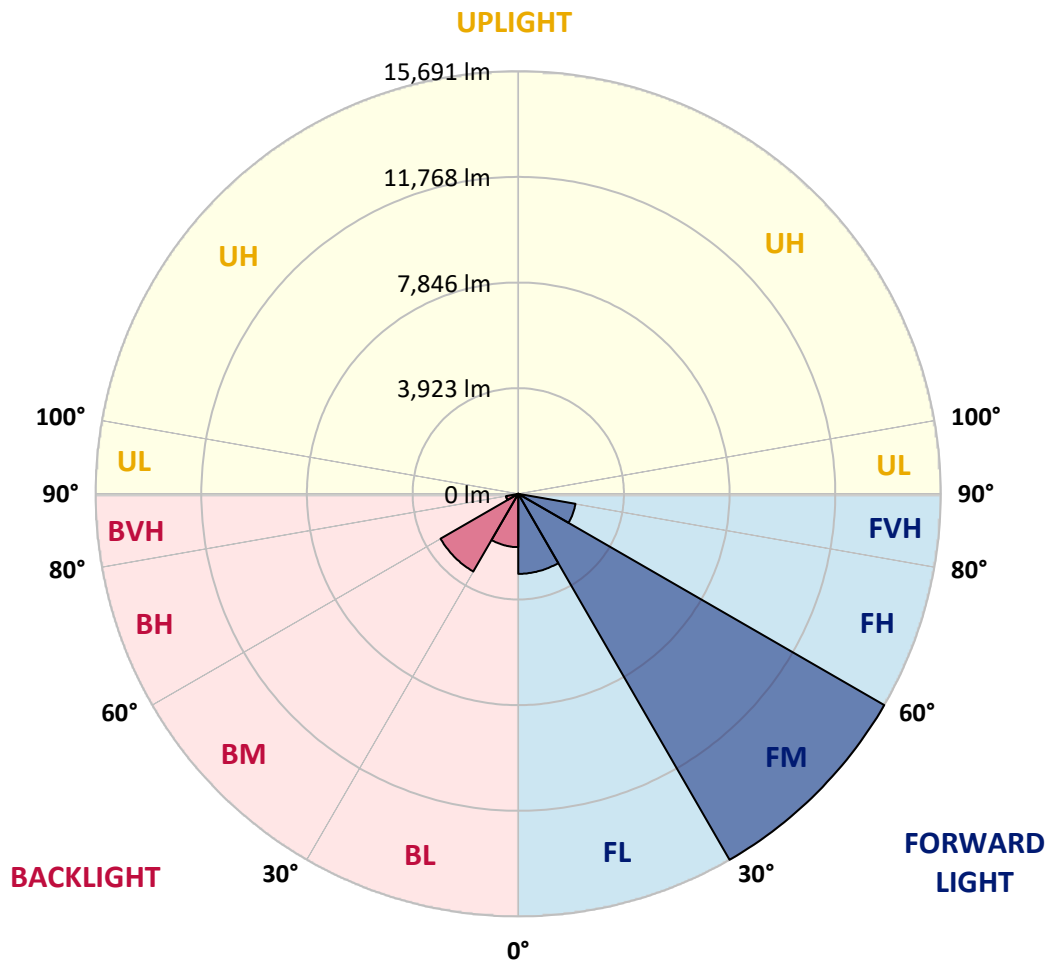
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2971.5	11.2			
FM (30°-60°)	15691.1	58.9			
FH (60°-80°)	2156.0	8.1			G2/5000
FVH (80°-90°)	20.7	0.1			G1/100
BL (0°-30°)	1979.6	7.4	B3/2500		
BM (30°-60°)	3331.4	12.5	B3/5000		
BH (60°-80°)	460.2	1.7	B1/500		G1/500
BVH (80°-90°)	20.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	5086.5	5086.5	5086.5	5086.5	5086.5	5086.5	5086.5	5086.5	5086.5	5086.5	5086.5
2.5°	5178.7	5154.4	5154.4	5115.6	5159.3	5139.9	5154.4	5105.9	5154.4	5081.7	5139.9
5°	5202.9	5207.8	5188.4	5212.6	5212.6	5241.7	5193.2	5236.8	5261.1	5207.8	5183.5
7.5°	5329.0	5338.7	5333.8	5314.4	5353.2	5348.4	5343.5	5309.6	5319.3	5299.9	5270.8
10°	5576.3	5571.4	5595.7	5547.2	5518.1	5552.0	5561.7	5508.4	5469.6	5455.1	5362.9
12.5°	5935.1	5876.9	5843.0	5794.5	5809.0	5760.5	5847.8	5755.7	5736.3	5649.0	5556.9
15°	6226.0	6216.3	6221.2	6143.6	6056.3	6075.7	6075.7	6027.2	5998.1	5891.5	5760.5
17.5°	6822.5	6618.8	6662.4	6565.5	6492.7	6487.9	6444.2	6453.9	6376.3	6153.3	5954.5
20°	7287.9	7200.7	7132.8	6967.9	6856.4	6890.3	6870.9	6822.5	6798.2	6507.3	6226.0
22.5°	7705.0	7734.1	7622.5	7578.9	7423.7	7438.3	7477.1	7433.4	7249.2	6948.5	6531.5
25°	8291.7	8257.7	8107.4	8054.1	7908.6	7962.0	8112.3	8078.3	7962.0	7418.9	6769.1
27.5°	8985.1	8868.7	8897.8	8655.3	8514.7	8665.0	8844.5	9014.2	8684.4	7971.6	7050.4
30°	9474.8	9353.6	9343.9	9334.2	9300.3	9474.8	9683.3	9838.5	9571.8	8524.4	7515.8
32.5°	9717.3	9746.4	9828.8	9799.7	10095.5	10454.3	10672.5	10895.6	10561.0	9426.3	8131.7
35°	10362.2	10177.9	10362.2	10381.6	10687.1	11448.3	11724.7	12258.1	12175.7	10701.6	8883.2
37.5°	10740.4	10725.8	10750.1	10934.3	11230.1	12170.8	12563.6	12975.7	12820.6	11467.7	9819.1
40°	11365.9	11404.7	11399.8	11540.5	11865.3	12713.9	12873.9	13208.5	13223.0	12529.6	11196.2
42.5°	12369.6	12214.5	12112.6	12258.1	12713.9	13184.3	13504.3	13436.4	13916.4	13819.5	12966.1
45°	13271.5	13363.7	13213.3	13455.8	13620.7	13872.8	13863.1	14008.6	14619.5	15080.2	14299.5
47.5°	14115.2	14173.4	14246.2	14411.0	14769.9	14808.6	14726.2	14663.2	15506.9	15982.1	15332.3
50°	14619.5	14672.9	15012.3	15308.1	15977.2	16064.5	16113.0	15953.0	16525.2	16578.5	16307.0
52.5°	14483.8	14542.0	15017.2	15991.8	17058.6	17858.6	17713.2	17441.6	17407.7	17616.2	17208.9
55°	13281.2	13227.9	13882.5	15400.2	17398.0	19318.2	19337.6	19051.5	18503.5	18362.9	17073.1
56°	12258.1	12049.6	12883.6	14716.5	16961.6	19192.1	19410.3	19104.8	18590.8	17960.5	16234.2
57.5°	10042.1	10241.0	11070.1	12587.8	15453.6	18285.3	18411.4	18338.7	17950.8	16893.7	14285.0
60°	5537.5	5886.6	6618.8	8475.9	11002.2	14032.8	14134.6	14726.2	14798.9	12937.0	9828.8
62.5°	2351.7	2312.9	3074.2	4441.6	6264.8	8471.1	8660.2	9266.3	9377.8	7457.7	4931.4
65°	955.2	1008.6	1391.6	2235.4	3311.8	3859.8	4126.4	4325.2	4693.8	3079.1	1818.4
67.5°	630.4	625.5	819.5	1275.3	1784.4	1721.4	1721.4	1818.4	1682.6	1255.9	785.5
70°	451.0	465.5	586.7	882.5	1110.4	824.3	790.4	756.4	858.3	829.2	635.2
72.5°	295.8	315.2	392.8	528.5	577.0	451.0	451.0	543.1	707.9	669.2	518.8
75°	194.0	198.8	242.4	305.5	286.1	232.7	257.0	363.7	514.0	494.6	368.5
77.5°	130.9	135.8	164.9	198.8	160.0	130.9	140.6	184.3	252.1	252.1	194.0
80°	48.5	53.3	67.9	63.0	72.7	92.1	101.8	126.1	150.3	150.3	130.9
82.5°	0.0	4.8	14.5	33.9	53.3	72.7	82.4	97.0	111.5	126.1	121.2
85°	0.0	4.8	14.5	24.2	38.8	43.6	48.5	33.9	29.1	29.1	24.2
87.5°	0.0	0.0	4.8	4.8	4.8	4.8	4.8	4.8	9.7	4.8	4.8
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°	5086.5	5086.5	5086.5	5086.5	5086.5	5086.5	5086.5	5086.5	5086.5	5086.5	5086.5
2.5°	5086.5	5081.7	5081.7	5067.1	5096.2	5081.7	5091.4	5086.5	5023.5	5072.0	5038.0
5°	5139.9	5173.8	5120.5	5110.8	5072.0	5086.5	5086.5	5038.0	5081.7	5076.8	5067.1
7.5°	5275.6	5217.5	5159.3	5101.1	5091.4	5076.8	5023.5	5004.1	5038.0	4999.3	5057.4
10°	5333.8	5343.5	5256.2	5178.7	5105.9	5004.1	4931.4	4887.7	4834.4	4892.6	4926.5
12.5°	5600.5	5503.5	5353.2	5232.0	4984.7	4882.9	4810.1	4790.7	4882.9	4902.3	4868.3
15°	5692.6	5678.1	5484.1	5212.6	4955.6	4834.4	4848.9	4810.1	4819.8	4771.4	4781.0
17.5°	5881.8	5716.9	5489.0	5149.6	4950.8	4921.7	4834.4	4679.2	4591.9	4553.1	4587.1
20°	6090.3	5930.2	5600.5	5173.8	4994.4	4916.8	4630.7	4441.6	4262.2	4165.2	4170.1
22.5°	6274.5	6075.7	5552.0	5183.5	5033.2	4713.2	4368.9	3995.5	3772.5	3622.2	3627.0
25°	6497.6	6216.3	5571.4	5202.9	4931.4	4388.3	3893.7	3530.0	3263.3	3161.5	3195.4
27.5°	6623.6	6303.6	5678.1	5246.5	4664.7	3927.6	3394.3	3054.8	2899.7	2851.2	2846.3
30°	7001.9	6497.6	5809.0	5159.3	4218.6	3433.0	2938.5	2730.0	2579.6	2536.0	2545.7
32.5°	7564.3	6851.5	5978.7	4931.4	3762.8	2991.8	2642.7	2487.5	2346.9	2264.5	2254.8
35°	8034.7	7457.7	6158.1	4577.4	3234.2	2652.4	2434.2	2240.2	2026.9	1934.7	1910.5
37.5°	8931.7	8141.4	6119.4	4044.0	2730.0	2400.2	2211.1	1973.5	1789.3	1663.2	1648.6
40°	10124.6	8941.4	5930.2	3394.3	2356.6	2177.2	1973.5	1745.6	1517.7	1411.0	1401.3
42.5°	11574.4	9920.9	5586.0	2734.8	1983.2	1954.1	1769.9	1508.0	1304.4	1226.8	1231.6
45°	12752.7	10759.8	5236.8	2196.6	1706.8	1735.9	1575.9	1328.6	1188.0	1125.0	1125.0
47.5°	13800.1	11327.1	4858.6	1813.5	1449.8	1517.7	1377.1	1231.6	1110.4	1061.9	1052.2
50°	14808.6	11904.1	4480.4	1469.2	1236.5	1304.4	1289.8	1173.4	1076.5	1018.3	1023.1
52.5°	15439.0	11996.3	4000.4	1202.5	1081.3	1158.9	1207.4	1100.7	994.0	960.1	950.4
55°	14668.0	10808.3	3103.3	989.2	916.4	1018.3	1110.4	989.2	906.8	848.6	843.7
56°	13630.4	9663.9	2594.2	911.6	868.0	979.5	1076.5	945.5	853.4	819.5	795.2
57.5°	11540.5	7908.6	1915.3	809.8	804.9	911.6	1023.1	901.9	795.2	766.1	766.1
60°	7195.8	4451.3	1158.9	678.9	698.2	809.8	921.3	804.9	707.9	707.9	722.5
62.5°	3277.9	1852.3	703.1	577.0	601.3	698.2	819.5	727.3	674.0	727.3	737.0
65°	1115.3	800.1	509.1	460.6	475.2	577.0	703.1	737.0	732.2	766.1	785.5
67.5°	625.5	514.0	426.7	383.1	373.4	426.7	577.0	737.0	707.9	693.4	703.1
70°	528.5	436.4	378.2	339.4	324.9	344.3	446.1	557.6	499.4	484.9	475.2
72.5°	426.7	363.7	329.7	305.5	261.8	223.1	203.7	213.4	237.6	252.1	276.4
75°	300.6	276.4	276.4	247.3	189.1	140.6	111.5	92.1	63.0	43.6	48.5
77.5°	169.7	169.7	174.6	150.3	121.2	92.1	67.9	48.5	24.2	9.7	4.8
80°	116.4	126.1	135.8	121.2	101.8	82.4	58.2	33.9	14.5	0.0	0.0
82.5°	116.4	130.9	140.6	121.2	101.8	77.6	58.2	33.9	14.5	4.8	0.0
85°	24.2	29.1	33.9	38.8	58.2	58.2	43.6	29.1	14.5	4.8	0.0
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	0.0	0.0
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)