

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: P532168

Luminaire Tested: **GALN-SA7C-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532168  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
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-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39188 lumens  
Efficiency: N/A  
Efficacy: 103.9 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

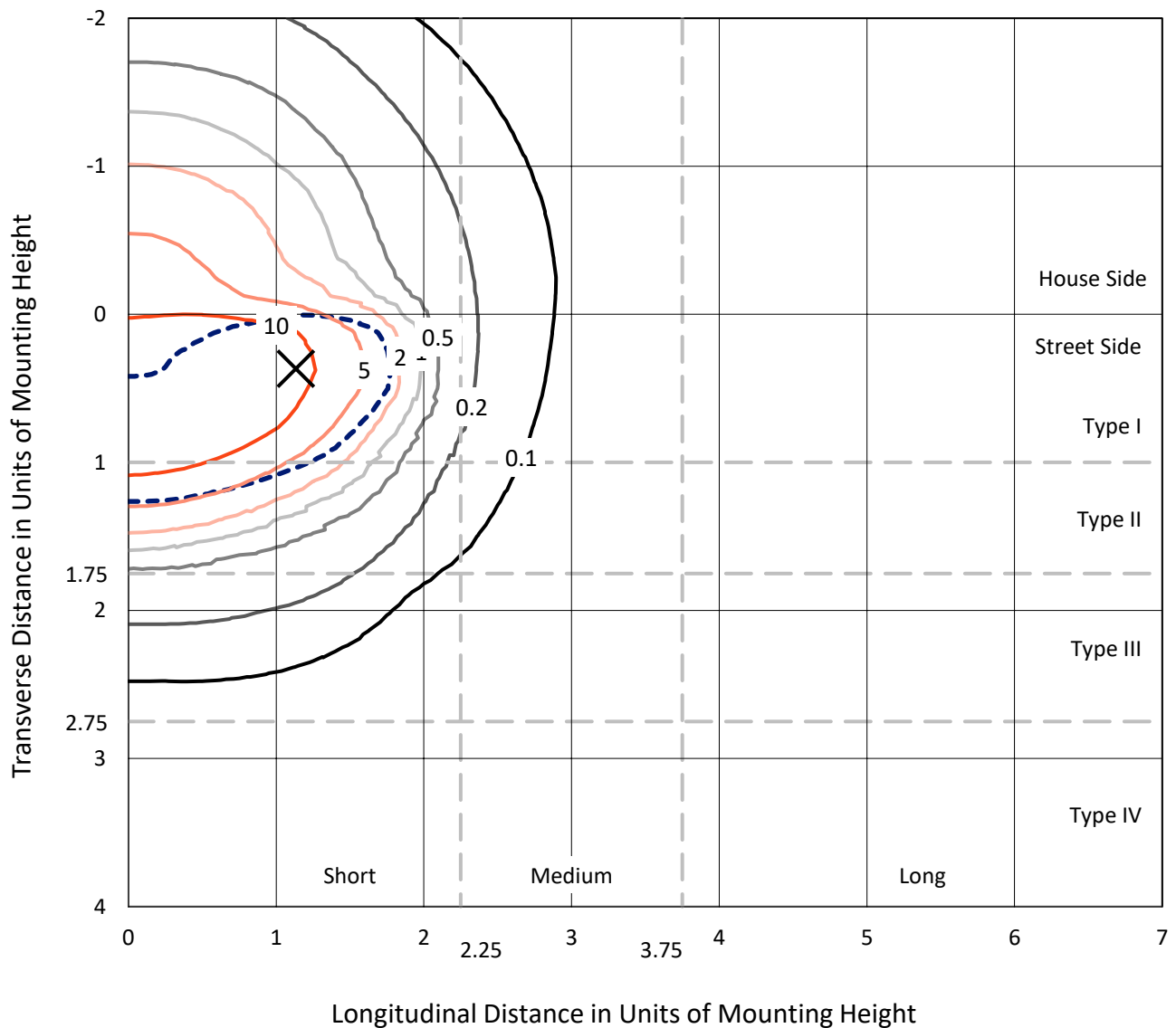
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

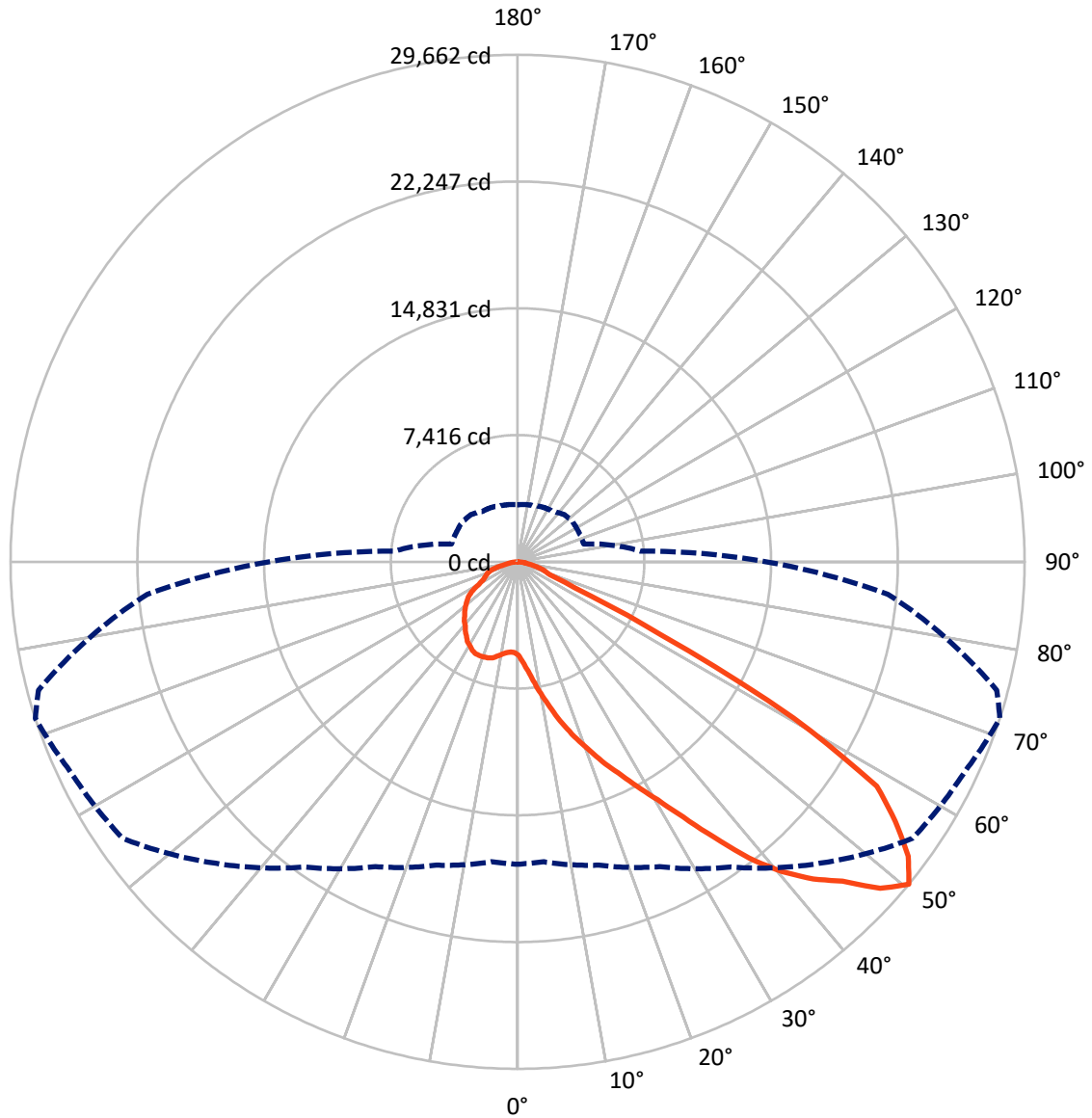
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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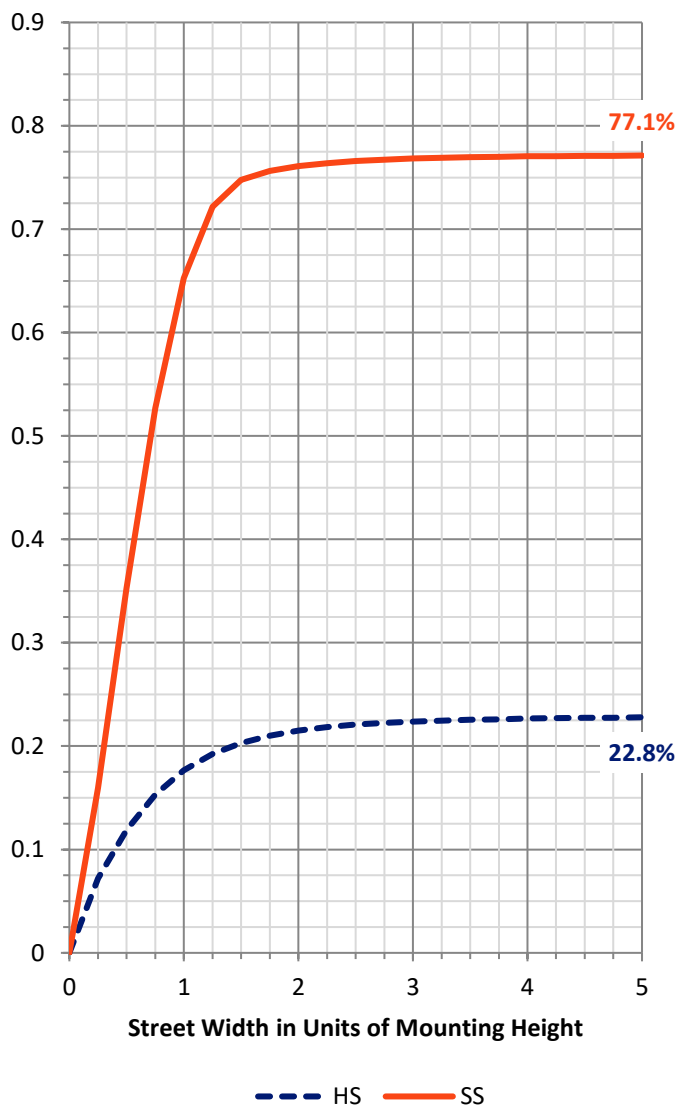
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8978.2	0.0	8978.2
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	30209.8	0.0	30209.8
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	39188.0	0.0	39188.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	641.7	1.6
10°-20°	2398.8	6.1
20°-30°	4651.2	11.9
30°-40°	7705.4	19.7
40°-50°	10781.4	27.5
50°-60°	9095.5	23.2
60°-70°	2772.3	7.1
70°-80°	972.6	2.5
80°-90°	169.1	0.4
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°	39188.0	100.0
0°-180°	39188.0	100.0

**Coefficient of Utilization**

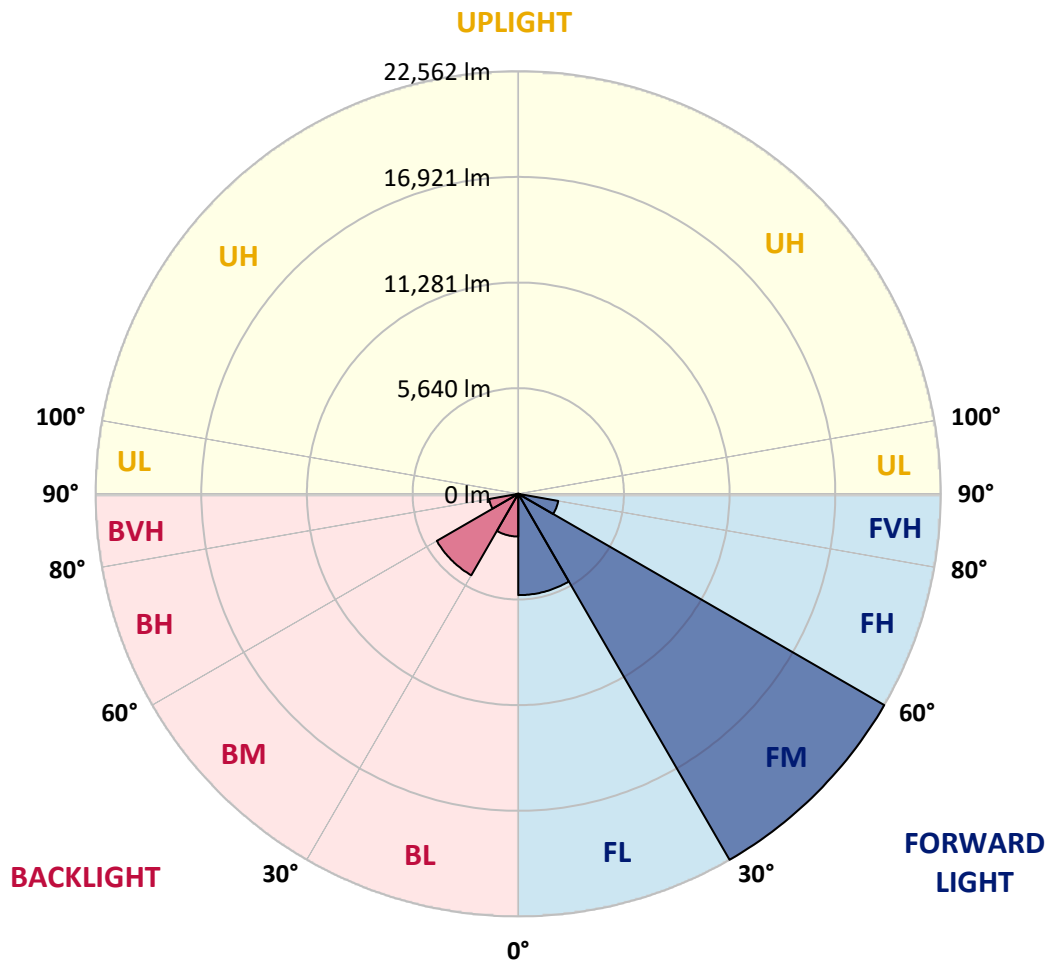


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5409.4	13.8			
FM (30°-60°)	22561.6	57.6			
FH (60°-80°)	2163.1	5.5			G2/5000
FVH (80°-90°)	75.7	0.2			G1/100
BL (0°-30°)	2282.3	5.8	B3/2500		
BM (30°-60°)	5020.7	12.8	B4/8500		
BH (60°-80°)	1581.8	4.0	B3/2500		G3/2500
BVH (80°-90°)	93.4	0.2			G1/100
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°	72°	75°	85°
0°	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3
2.5°	7016.7	6973.1	6842.2	6798.5	6643.3	6362.1	6265.1	5979.0	5857.8	5746.3	5615.3
5°	8874.0	8670.3	8655.7	8408.4	8049.6	7841.1	7220.4	6803.4	6420.3	6226.3	5867.5
7.5°	10057.2	10062.0	10062.0	9858.3	9572.2	9043.7	8486.0	7734.4	7157.4	6871.3	6260.3
10°	11182.2	11085.2	11031.8	11012.4	10818.5	10304.5	9708.0	8777.0	7986.6	7652.0	6556.1
12.5°	11977.4	11895.0	12016.2	11953.2	11812.6	11478.0	10915.5	9853.5	8864.3	8413.3	7031.3
15°	12355.7	12413.8	12510.8	12685.4	12622.4	12496.3	11875.6	10959.1	9809.8	9300.7	7453.2
17.5°	12937.6	12777.5	12893.9	13112.1	13286.7	13228.5	12874.5	11759.2	10745.7	10120.2	8020.5
20°	13344.9	13252.8	13310.9	13563.1	13694.0	14023.8	13839.5	12806.6	11642.8	10983.3	8689.7
22.5°	14508.7	14372.9	14183.8	14222.6	14271.1	14503.8	14547.5	13955.9	12685.4	11987.1	9324.9
25°	15944.0	15818.0	15594.9	15367.0	15226.4	15182.7	15333.0	14857.8	13684.3	12961.8	10008.7
27.5°	17524.9	17311.5	17170.9	16700.5	16322.3	16264.1	16191.3	15934.3	14867.5	14086.8	10779.7
30°	19062.0	18892.3	18703.2	17951.6	17558.8	17495.8	17136.9	17209.7	16152.5	15284.5	11652.5
32.5°	20225.8	20240.4	19808.8	19241.5	18872.9	18538.3	18407.4	18615.9	17801.3	17103.0	12627.2
35°	21166.6	21210.2	20798.0	20284.0	19886.4	20119.2	20061.0	20158.0	19770.0	18916.6	13761.9
37.5°	22083.1	21864.9	21423.6	21176.3	20967.8	21350.8	21845.5	21927.9	22000.6	20996.9	15080.9
40°	22233.4	22252.8	21995.8	22170.4	21908.5	22485.5	23634.8	23528.1	23823.9	22946.2	16511.4
42.5°	22020.0	22063.7	22165.5	22412.8	23043.2	23736.6	25443.5	25007.1	25366.0	24585.2	17903.1
45°	21670.9	21491.5	21617.6	22558.3	23649.3	25191.4	27097.1	26757.7	26641.3	25986.6	19561.5
47.5°	20002.8	20187.0	20579.8	21738.8	23377.8	25443.5	28270.6	28193.0	28542.1	28081.5	21069.6
50°	17689.7	17617.0	18373.5	19677.9	21792.1	24948.9	28207.6	28910.7	29662.3	29022.2	21743.6
52.5°	13247.9	13635.8	14285.6	15905.2	18921.4	22252.8	26830.4	28003.9	28614.9	28479.1	21200.5
55°	8374.5	8490.9	8883.7	10808.8	13524.3	17859.5	22999.6	25719.9	26811.0	27320.2	20701.1
57.5°	4068.4	3850.2	4330.3	5877.2	7812.0	12011.4	17738.2	22403.1	24774.4	25695.7	19614.8
60°	2123.9	2206.4	2395.5	2948.3	4039.3	6236.0	11056.1	14930.6	18552.9	19968.8	14867.5
62.5°	1760.2	1789.3	1915.4	2191.8	2686.4	3588.4	5644.4	7278.6	9460.7	10736.0	8456.9
65°	1493.5	1508.1	1643.9	1828.1	2143.3	2526.4	2904.6	3040.4	3680.5	3777.5	3006.5
67.5°	1246.2	1260.8	1406.3	1580.8	1784.5	1886.3	1983.3	1973.6	2046.3	2017.3	2012.4
70°	960.1	974.7	1125.0	1309.3	1411.1	1352.9	1653.6	1721.5	1750.5	1774.8	1813.6
72.5°	693.4	722.5	838.9	969.8	916.5	1052.3	1362.6	1464.4	1503.2	1517.8	1566.3
75°	504.3	514.0	543.1	504.3	581.9	732.2	960.1	1086.2	1134.7	1149.3	1222.0
77.5°	223.1	227.9	232.8	290.9	373.4	455.8	572.2	674.0	741.9	761.3	780.7
80°	116.4	121.2	150.3	198.8	266.7	334.6	417.0	475.2	518.9	523.7	543.1
82.5°	72.7	77.6	106.7	140.6	189.1	247.3	305.5	354.0	387.9	392.8	397.6
85°	33.9	43.6	63.0	87.3	126.1	160.0	164.9	140.6	150.3	155.2	145.5
87.5°	9.7	14.5	19.4	14.5	19.4	19.4	24.2	29.1	29.1	29.1	33.9
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°	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3	5455.3
2.5°	5542.6	5498.9	5329.2	5266.2	5101.3	5130.4	5043.1	5038.3	5018.9	5014.0	5009.2
5°	5678.4	5542.6	5338.9	5183.8	5091.6	5081.9	5018.9	5018.9	5038.3	5052.8	5018.9
7.5°	5901.4	5746.3	5402.0	5256.5	5174.1	5159.5	5115.9	5081.9	5125.6	5111.0	5072.2
10°	6158.4	5886.9	5523.2	5397.1	5261.3	5227.4	5227.4	5241.9	5169.2	5193.4	5154.7
12.5°	6444.5	6080.8	5678.4	5532.9	5372.9	5353.5	5343.8	5237.1	5275.9	5256.5	5159.5
15°	6808.2	6303.9	5877.2	5629.9	5494.1	5406.8	5280.7	5261.3	5237.1	5188.6	5145.0
17.5°	7201.0	6546.4	5969.3	5659.0	5455.3	5392.3	5295.3	5193.4	5120.7	5130.4	5096.5
20°	7535.6	6769.4	6003.3	5688.1	5426.2	5305.0	5154.7	5091.6	5014.0	5009.2	5004.3
22.5°	7933.2	7070.1	6051.8	5610.5	5338.9	5212.8	5111.0	4999.5	4946.1	4878.3	4912.2
25°	8408.4	7186.5	6061.4	5566.8	5275.9	5052.8	4999.5	4878.3	4858.9	4761.9	4781.3
27.5°	8752.7	7249.5	5983.9	5431.1	5130.4	4960.7	4863.7	4776.4	4742.5	4669.7	4650.3
30°	9213.4	7346.5	5819.0	5261.3	4984.9	4795.8	4737.6	4718.2	4621.2	4543.7	4534.0
32.5°	9737.1	7409.5	5712.3	5086.8	4834.6	4689.1	4718.2	4626.1	4504.9	4437.0	4417.6
35°	10154.1	7433.8	5445.6	4888.0	4732.8	4640.6	4606.7	4587.3	4412.7	4349.7	4301.2
37.5°	10789.4	7380.4	5222.5	4747.3	4621.2	4587.3	4558.2	4427.3	4228.5	4136.3	4068.4
40°	11531.3	7365.9	4936.4	4548.5	4514.6	4553.4	4466.1	4262.4	3986.0	3884.2	3835.7
42.5°	12244.1	7467.7	4757.0	4441.8	4398.2	4412.7	4291.5	3986.0	3850.2	3792.0	3714.5
45°	13437.0	7681.1	4461.2	4277.0	4257.6	4247.9	4102.4	3782.3	3704.8	3632.0	3617.5
47.5°	14513.5	7540.4	4272.1	4107.2	4126.6	4073.3	3762.9	3661.1	3573.8	3501.1	3476.8
50°	14576.6	7205.9	4005.4	3976.3	3981.2	3889.0	3593.2	3525.3	3413.8	3365.3	3331.4
52.5°	14246.8	6657.9	3758.1	3767.8	3782.3	3632.0	3384.7	3336.2	3244.1	3176.2	3156.8
55°	13320.6	5804.4	3515.6	3554.4	3593.2	3307.1	3229.5	3108.3	3035.6	2938.6	2943.4
57.5°	11735.0	4674.6	3176.2	3239.2	3321.7	3006.5	2948.3	2798.0	2691.3	2613.7	2604.0
60°	7865.3	3326.5	2667.0	2691.3	2875.6	2749.5	2744.6	2594.3	2448.8	2380.9	2342.1
62.5°	4640.6	2541.0	2303.4	2279.1	2274.3	2347.0	2468.2	2414.9	2225.8	2094.8	2133.6
65°	2429.4	2196.7	2143.3	2060.9	2012.4	1993.0	2085.1	2109.4	1983.3	1842.7	1833.0
67.5°	2041.5	2041.5	1997.9	1968.8	1900.9	1818.4	1760.2	1682.7	1663.3	1624.5	1576.0
70°	1857.2	1905.7	1891.2	1823.3	1765.1	1673.0	1522.6	1396.6	1275.3	1231.7	1260.8
72.5°	1619.6	1668.1	1668.1	1634.2	1556.6	1416.0	1270.5	1125.0	1023.2	945.6	935.9
75°	1246.2	1270.5	1328.7	1289.9	1188.0	1100.8	950.4	800.1	703.1	630.4	615.8
77.5°	795.3	834.1	834.1	829.2	756.5	674.0	577.0	470.4	397.6	344.3	329.7
80°	528.6	552.8	572.2	552.8	504.3	441.3	368.5	295.8	242.5	198.8	189.1
82.5°	387.9	417.0	431.6	412.2	363.7	315.2	261.9	208.5	155.2	121.2	111.5
85°	150.3	155.2	174.6	208.5	203.7	198.8	160.0	116.4	87.3	63.0	58.2
87.5°	38.8	33.9	38.8	38.8	33.9	29.1	29.1	29.1	29.1	14.5	19.4
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)