

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: P651041

Luminaire Tested: **GALN-SA7C-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32243.1 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

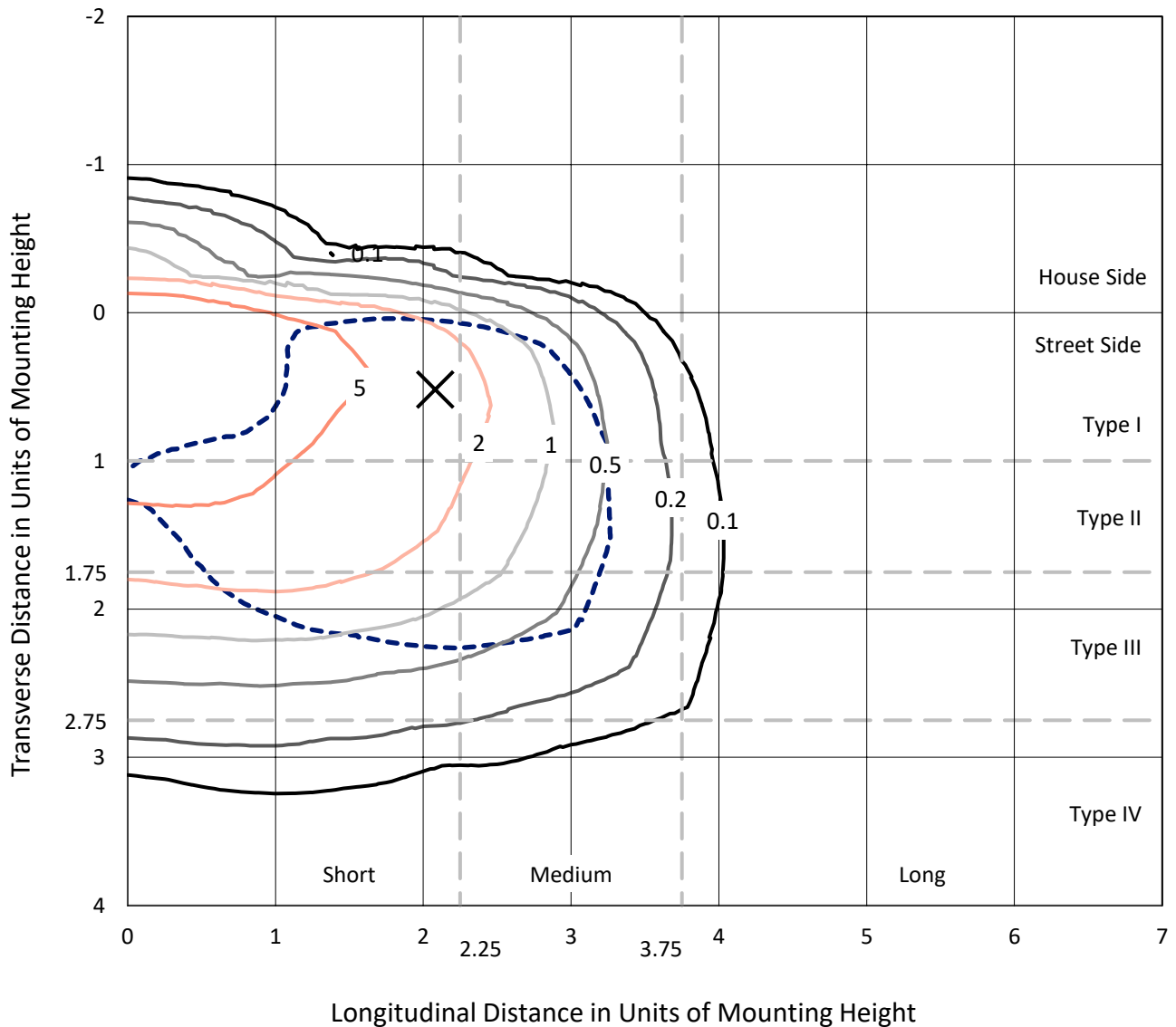
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

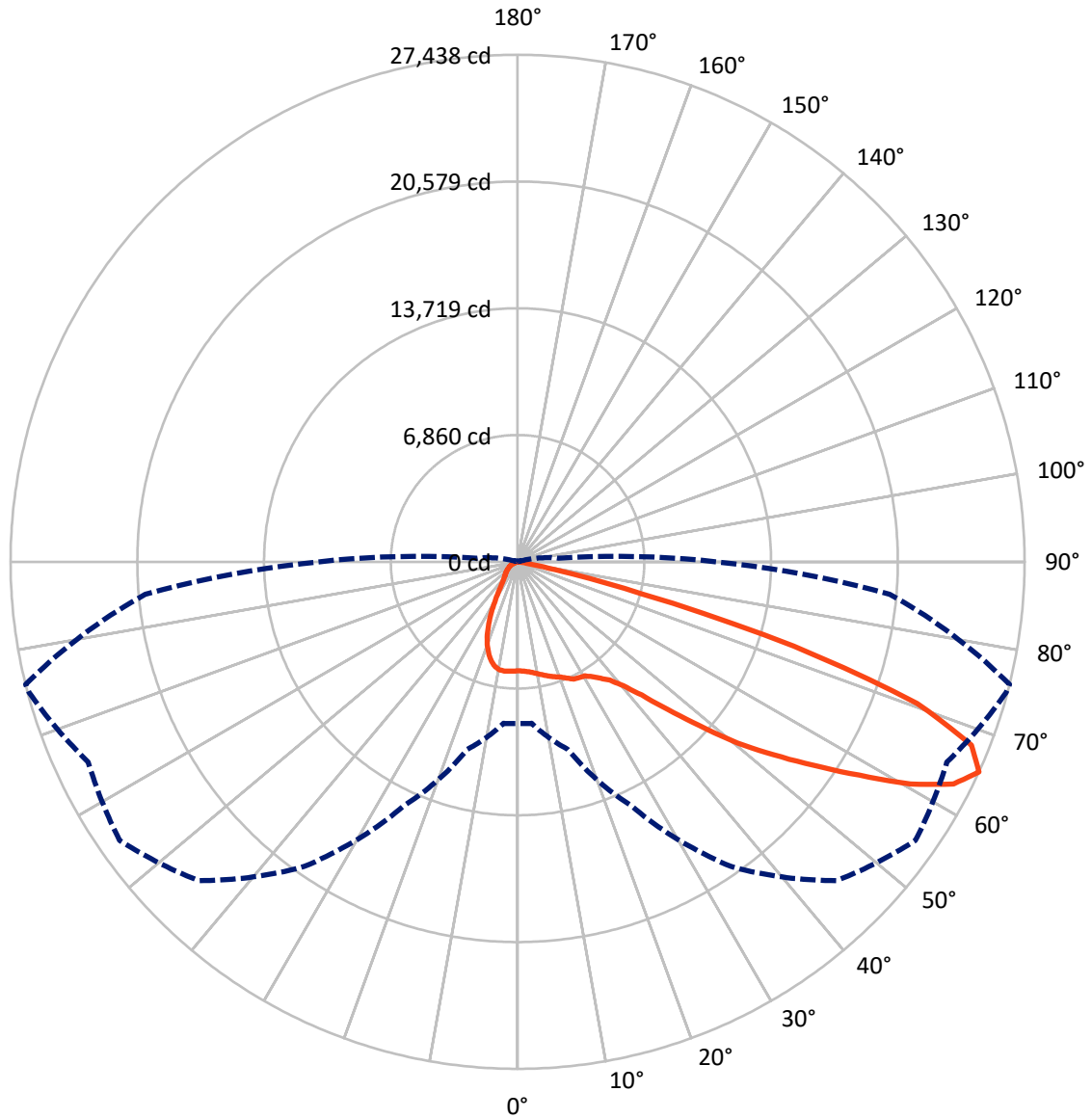
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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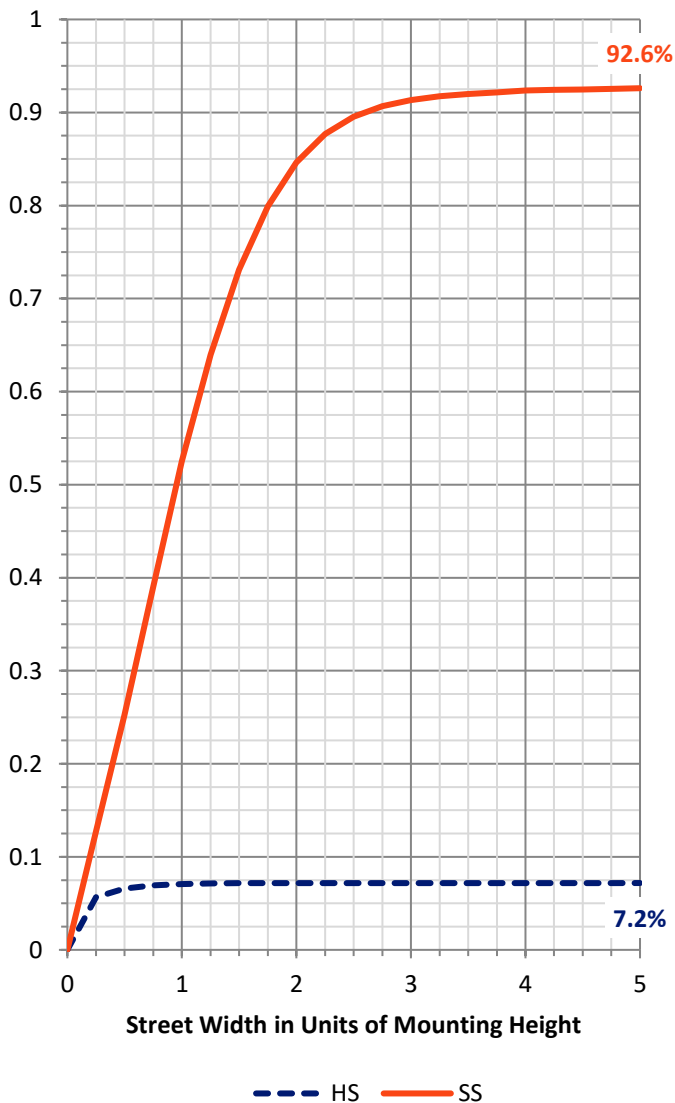
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2328.6	0.0	2328.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	29914.5	0.0	29914.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	32243.1	0.0	32243.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.9	1.5
10°-20°	1081.8	3.4
20°-30°	1743.3	5.4
30°-40°	3031.2	9.4
40°-50°	5008.8	15.5
50°-60°	7737.6	24.0
60°-70°	9448.7	29.3
70°-80°	3586.0	11.1
80°-90°	119.7	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°	32243.1	100.0
0°-180°	32243.1	100.0

Coefficient of Utilization

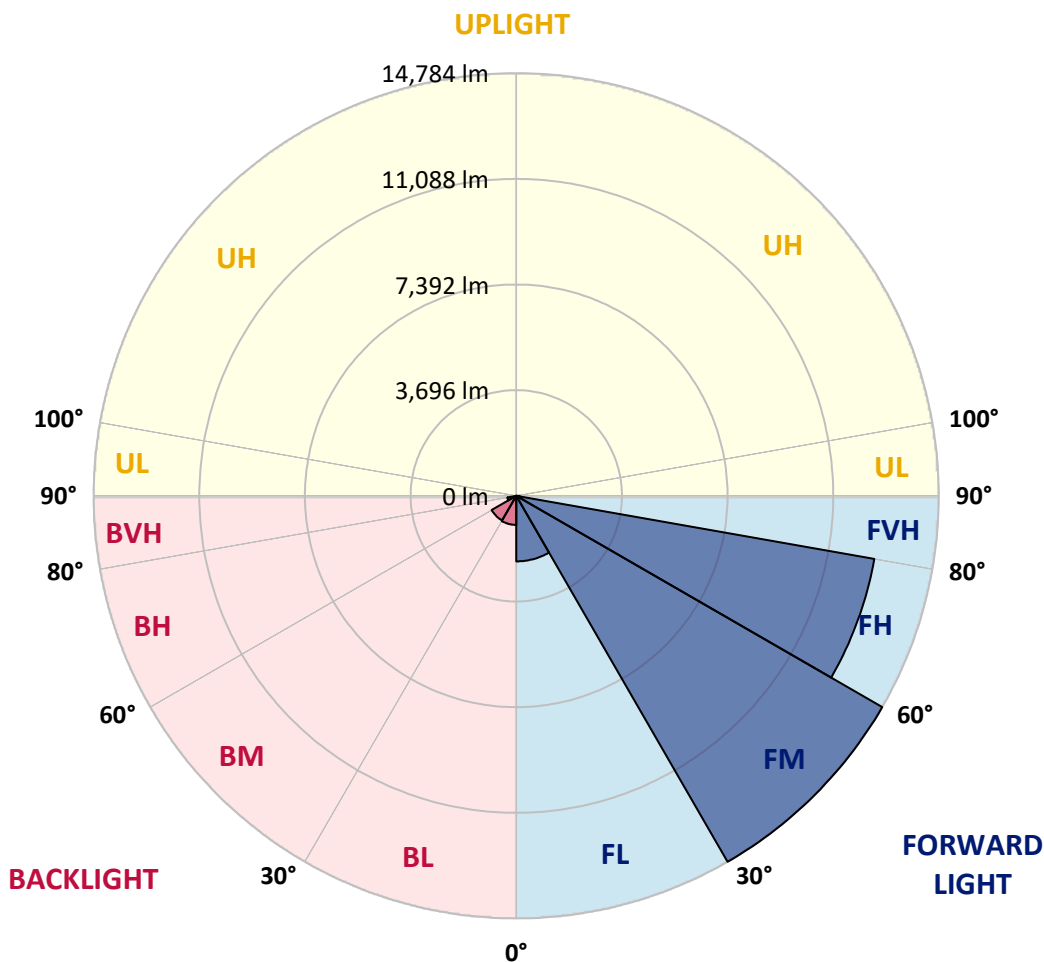


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2293.7	7.1			
FM (30°-60°)	14784.0	45.9			
FH (60°-80°)	12718.8	39.4			G5
FVH (80°-90°)	118.0	0.4			G2/225
BL (0°-30°)	1017.3	3.2	B3/2500		
BM (30°-60°)	993.7	3.1	B1/1000		
BH (60°-80°)	316.0	1.0	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3
2.5°	5636.5	5638.7	5652.4	5686.6	5738.9	5782.2	5818.6	5877.8	5918.8	5923.3	5937.0
5°	5247.3	5219.9	5247.3	5336.0	5415.7	5536.3	5684.3	5832.3	5964.3	5973.5	6037.1
7.5°	4810.2	4832.9	4876.2	4967.2	5117.5	5301.8	5515.9	5779.9	6030.3	6053.1	6178.3
10°	4366.2	4416.3	4486.9	4625.8	4835.2	5074.2	5365.6	5743.5	6135.0	6166.9	6383.2
12.5°	3956.5	3979.3	4065.7	4252.4	4512.0	4848.9	5251.8	5723.0	6251.2	6289.8	6601.7
15°	3642.3	3671.9	3747.1	3915.5	4204.6	4637.1	5158.4	5716.2	6364.9	6419.6	6820.3
17.5°	3583.2	3601.3	3633.2	3747.1	3999.7	4468.7	5074.2	5713.9	6474.3	6540.3	7022.9
20°	3826.7	3810.8	3778.9	3767.5	3906.4	4338.9	5012.8	5732.1	6579.0	6654.1	7236.8
22.5°	4436.8	4457.3	4270.6	4049.8	4004.3	4318.5	5003.6	5818.6	6745.2	6833.9	7475.9
25°	5732.1	5575.1	5283.7	4755.5	4357.1	4443.7	5106.0	6023.5	6938.7	7036.5	7692.1
27.5°	7164.0	7116.2	6663.2	5793.6	5051.5	4707.7	5288.2	6180.6	7002.3	7102.5	7815.1
30°	8570.9	8627.7	8108.8	7148.1	6059.9	5197.1	5458.9	6239.8	7059.3	7164.0	7972.2
32.5°	9875.3	9943.6	9488.2	8536.7	7248.2	6044.0	5752.6	6469.6	7298.3	7405.3	8233.9
35°	10902.0	10911.0	10567.3	9809.3	8545.8	7073.0	6387.7	6872.7	7621.6	7746.8	8511.7
37.5°	11844.4	11830.8	11427.8	10774.5	9627.1	8095.0	7186.8	7337.1	7990.3	8120.1	8912.3
40°	12543.3	12552.3	12422.6	11808.0	10635.6	9039.8	7819.6	7771.8	8609.6	8812.2	9495.1
42.5°	13009.9	13094.2	13157.9	12846.0	11903.6	10203.1	8791.6	8702.9	9684.0	9852.5	10319.2
45°	13387.8	13538.1	13856.7	13840.8	13121.5	11630.4	10125.6	9943.6	11207.0	11386.8	11368.6
47.5°	13663.3	13815.8	14343.9	14662.7	14266.6	13014.5	11803.4	11646.3	13025.8	13221.6	12527.3
50°	13804.4	13986.5	14660.4	15277.3	15161.2	14348.5	13715.6	13724.7	15222.6	15411.6	13870.4
52.5°	13474.3	13711.1	14828.8	15939.7	16165.1	15625.6	15507.2	15807.7	17178.1	17339.7	15083.8
55°	12420.3	12718.5	14598.9	16504.3	17328.4	17132.6	17542.3	17999.9	19315.8	19420.5	16329.0
57.5°	11753.3	12069.8	13920.5	16984.6	18726.1	19026.6	19675.4	20010.0	21521.6	21788.0	17758.6
60°	11191.0	11439.2	13362.8	17087.1	20146.6	21344.0	21974.6	22320.6	24244.3	24417.3	19331.6
62.5°	10255.4	10540.0	12420.3	16372.3	20861.4	23199.3	24506.1	24351.2	26350.0	26470.6	20296.9
65°	8750.7	8775.8	10508.1	14576.1	20123.9	24403.5	26283.9	25635.1	27356.1	27438.1	20221.8
67.5°	6531.1	6772.5	8083.7	11457.4	16998.3	23374.6	26859.9	25669.3	26721.0	26493.4	18616.9
70°	4206.9	4391.3	5479.5	7944.8	12256.4	19506.9	24949.9	23909.6	23452.0	22946.7	15238.6
72.5°	1941.8	2178.5	3255.3	4539.2	7268.7	13895.5	20253.6	19425.0	16879.9	15632.4	9686.3
75°	846.8	906.0	1607.2	2394.8	3407.8	7348.4	13353.7	12058.3	7623.8	6963.6	3876.8
77.5°	516.8	555.5	842.3	1284.0	1338.5	2800.0	7193.6	5260.9	2356.1	2078.4	1051.8
80°	350.6	393.8	612.3	671.5	457.6	780.8	2699.9	1404.6	475.8	455.3	225.4
82.5°	170.7	216.2	453.0	375.6	198.1	250.4	785.4	300.5	138.8	129.8	79.6
85°	25.1	43.2	255.0	245.8	88.8	59.2	138.8	75.1	47.8	45.5	36.4
87.5°	0.0	0.0	86.5	38.7	9.1	9.1	15.9	15.9	18.2	15.9	18.2
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°	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3
2.5°	5943.9	5955.2	5912.0	5850.5	5784.5	5718.5	5625.1	5540.9	5490.8	5520.4	5447.6
5°	6050.8	6041.7	5927.9	5741.3	5493.1	5194.9	4898.9	4646.3	4564.3	4441.3	4427.7
7.5°	6198.8	6173.8	5932.4	5504.4	4944.5	4384.5	3838.1	3476.1	3269.0	3093.7	3098.2
10°	6406.0	6333.1	5880.1	5087.9	4165.9	3321.4	2624.8	2146.7	1939.5	1873.5	1821.2
12.5°	6619.9	6478.8	5734.4	4525.6	3243.9	2269.6	1595.8	1304.4	1176.9	1135.9	1131.4
15°	6811.2	6588.1	5479.5	3849.5	2358.4	1450.1	1088.2	992.5	976.6	978.8	976.6
17.5°	7000.1	6674.6	5126.6	3132.4	1602.6	1040.3	935.6	912.8	919.7	928.8	926.5
20°	7157.2	6692.8	4675.9	2390.3	1133.7	912.8	878.7	874.1	880.9	887.8	887.8
22.5°	7327.9	6706.5	4140.8	1655.0	926.5	849.2	830.9	830.9	840.0	849.2	851.4
25°	7455.4	6631.3	3501.2	1188.3	817.3	787.7	778.5	780.8	790.0	794.5	792.2
27.5°	7475.9	6419.6	2822.8	910.6	742.1	712.5	703.4	712.5	701.1	708.0	703.4
30°	7494.1	6151.0	2135.3	767.2	673.8	628.3	614.6	601.0	591.9	580.5	578.2
32.5°	7551.0	5834.5	1559.4	689.8	610.1	560.0	528.1	489.5	459.9	450.8	448.4
35°	7576.1	5454.4	1145.0	628.3	553.2	498.5	441.6	387.0	343.7	327.8	339.2
37.5°	7671.7	5085.6	887.8	582.8	503.1	434.8	362.0	293.7	252.7	243.6	248.1
40°	7867.4	4685.0	744.4	544.0	459.9	375.6	286.9	220.8	193.5	184.4	182.1
42.5°	8181.6	4286.6	662.5	507.6	416.6	316.5	225.4	173.0	150.3	143.4	143.4
45°	8564.0	3904.1	605.5	468.9	371.0	255.0	177.5	138.8	125.2	120.7	120.7
47.5°	9067.2	3569.5	557.8	430.3	321.0	202.6	143.4	120.7	111.5	113.8	116.1
50°	9577.1	3321.4	505.4	387.0	264.1	166.2	123.0	107.0	104.7	107.0	107.0
52.5°	9961.7	3175.6	434.8	327.8	207.1	138.8	109.2	100.2	97.9	93.4	93.4
55°	10480.8	3143.7	346.0	266.3	163.9	116.1	97.9	91.1	84.3	79.6	77.4
57.5°	11147.8	3180.2	266.3	207.1	127.5	95.6	86.5	75.1	66.0	56.9	56.9
60°	11562.1	3098.2	207.1	159.4	93.4	77.4	66.0	54.7	43.2	36.4	34.1
62.5°	11430.1	2752.3	163.9	118.4	66.0	56.9	43.2	36.4	25.1	18.2	15.9
65°	10749.4	2221.8	132.0	81.9	47.8	34.1	22.8	22.8	11.4	2.3	0.0
67.5°	9408.6	1645.8	104.7	54.7	27.3	15.9	11.4	6.8	0.0	0.0	0.0
70°	7658.0	1188.3	81.9	34.1	15.9	11.4	4.5	2.3	0.0	0.0	0.0
72.5°	4862.5	680.6	63.7	20.5	11.4	4.5	0.0	0.0	0.0	0.0	0.0
75°	1880.4	266.3	43.2	13.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	532.7	125.2	25.1	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	138.8	54.7	13.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	66.0	22.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.7	9.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)