

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: P651032

Luminaire Tested: **GALN-SA7C-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651032  
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-840-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 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: 36189.1 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

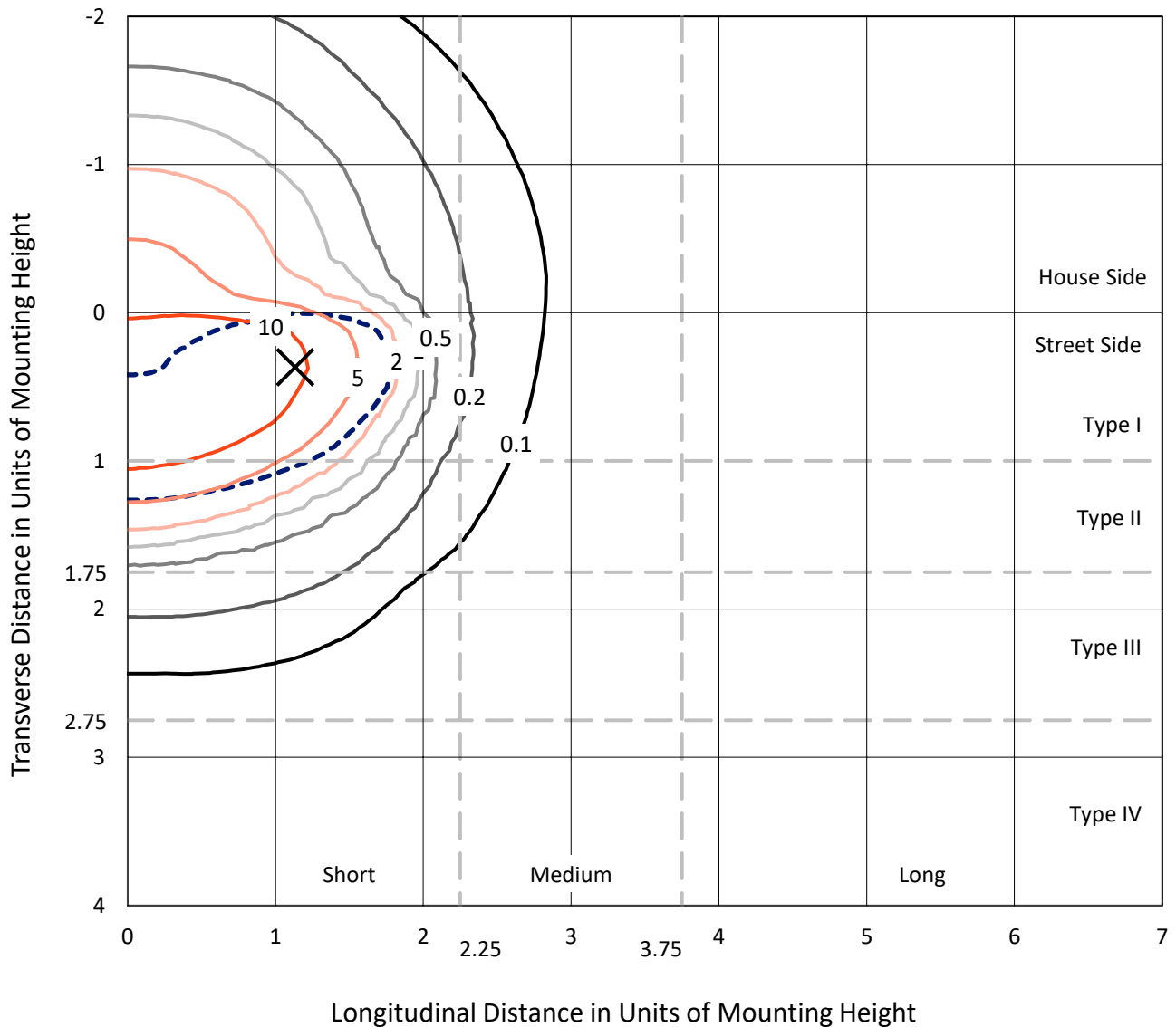
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

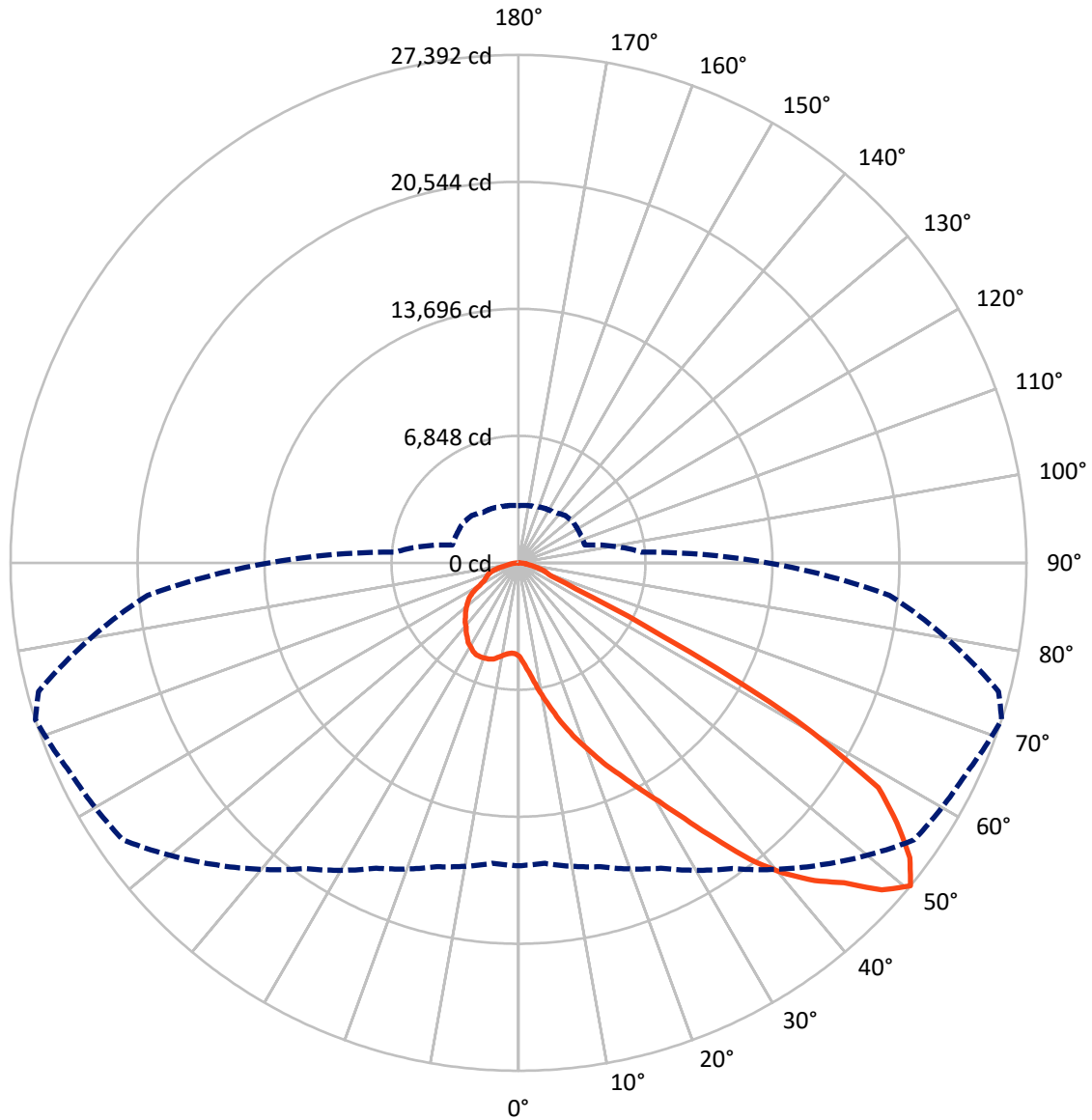
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 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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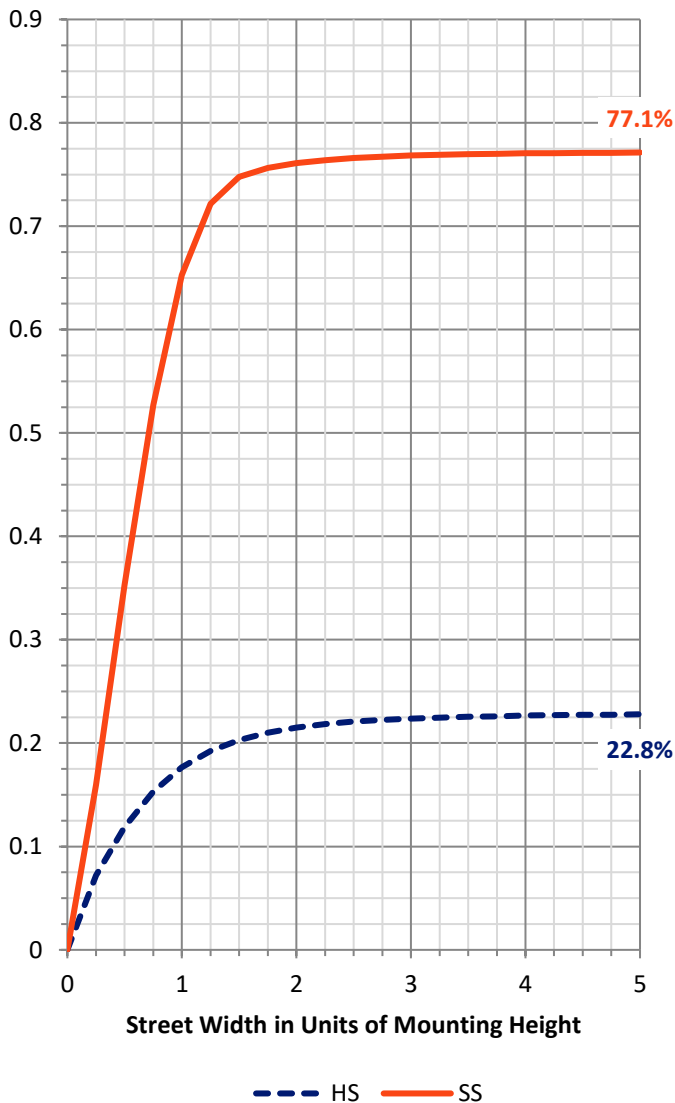
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8291.1	0.0	8291.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	27898.0	0.0	27898.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	36189.1	0.0	36189.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	592.6	1.6
10°-20°	2215.3	6.1
20°-30°	4295.2	11.9
30°-40°	7115.7	19.7
40°-50°	9956.4	27.5
50°-60°	8399.5	23.2
60°-70°	2560.2	7.1
70°-80°	898.2	2.5
80°-90°	156.2	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°	36189.1	100.0
0°-180°	36189.1	100.0

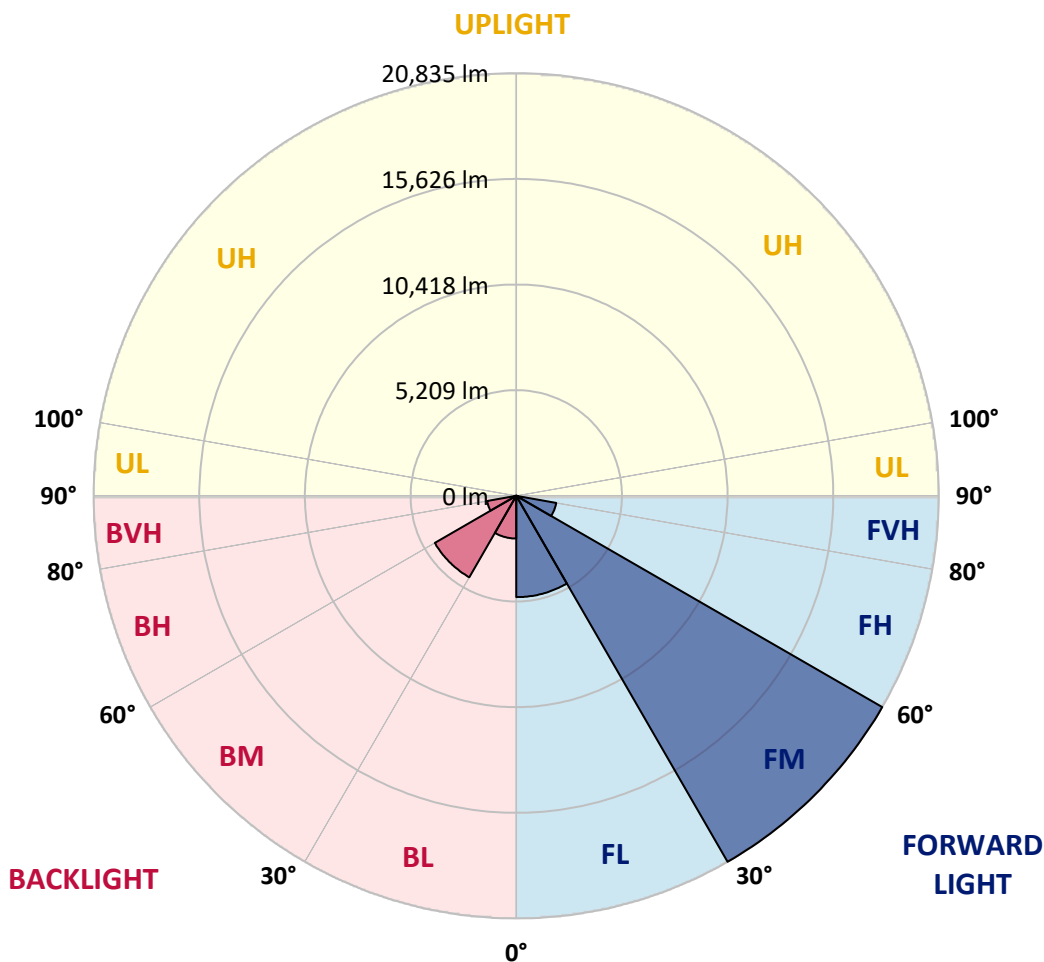


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4995.4	13.8			
FM (30°-60°)	20835.0	57.6			
FH (60°-80°)	1997.6	5.5			G2/5000
FVH (80°-90°)	69.9	0.2			G1/100
BL (0°-30°)	2107.6	5.8	B3/2500		
BM (30°-60°)	4636.5	12.8	B3/5000		
BH (60°-80°)	1460.8	4.0	B3/2500		G3/2500
BVH (80°-90°)	86.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5037.8	5037.8	5037.8	5037.8	5037.8	5037.8	5037.8	5037.8	5037.8	5037.8	5037.8
2.5°	6479.7	6439.5	6318.5	6278.2	6134.9	5875.2	5785.7	5521.4	5409.5	5306.5	5185.6
5°	8194.9	8006.8	7993.4	7765.0	7433.6	7241.0	6667.9	6282.7	5929.0	5749.8	5418.5
7.5°	9287.5	9292.0	9292.0	9103.9	8839.7	8351.6	7836.6	7142.5	6609.7	6345.4	5781.2
10°	10326.4	10236.9	10187.6	10169.7	9990.6	9515.9	8965.1	8105.3	7375.4	7066.4	6054.4
12.5°	11060.8	10984.7	11096.7	11038.5	10908.6	10599.6	10080.1	9099.5	8185.9	7769.4	6493.2
15°	11410.1	11463.8	11553.4	11714.6	11656.4	11539.9	10966.8	10120.4	9059.2	8589.0	6882.8
17.5°	11947.5	11799.7	11907.2	12108.7	12269.9	12216.2	11889.3	10859.3	9923.4	9345.7	7406.7
20°	12323.7	12238.6	12292.3	12525.2	12646.0	12950.6	12780.4	11826.6	10751.8	10142.8	8024.7
22.5°	13398.4	13273.0	13098.3	13134.1	13179.0	13393.9	13434.2	12887.9	11714.6	11069.7	8611.3
25°	14723.9	14607.5	14401.5	14191.0	14061.1	14020.8	14159.7	13720.8	12637.1	11969.9	9242.8
27.5°	16183.7	15986.7	15856.8	15422.5	15073.2	15019.4	14952.3	14714.9	13729.7	13008.8	9954.7
30°	17603.3	17446.5	17271.9	16577.8	16215.1	16156.9	15825.5	15892.6	14916.5	14114.8	10760.8
32.5°	18678.0	18691.5	18292.9	17769.0	17428.6	17119.6	16998.7	17191.3	16439.0	15794.1	11660.9
35°	19546.8	19587.1	19206.4	18731.8	18364.6	18579.5	18525.8	18615.4	18257.1	17468.9	12708.8
37.5°	20393.2	20191.7	19784.1	19555.7	19363.2	19716.9	20173.7	20249.9	20317.0	19390.0	13926.8
40°	20531.9	20549.8	20312.5	20473.7	20231.9	20764.8	21826.1	21727.6	22000.7	21190.3	15247.8
42.5°	20334.9	20375.2	20469.3	20697.6	21279.8	21920.2	23496.4	23093.4	23424.8	22703.8	16533.1
45°	20012.5	19846.8	19963.2	20832.0	21839.5	23263.6	25023.5	24710.0	24602.5	23997.9	18064.5
47.5°	18472.1	18642.2	19004.9	20075.2	21588.8	23496.4	26107.2	26035.5	26357.9	25932.5	19457.2
50°	16336.0	16268.8	16967.4	18172.0	20124.5	23039.7	26049.0	26698.2	27392.4	26801.2	20079.6
52.5°	12234.1	12592.3	13192.4	14688.1	17473.5	20549.8	24777.1	25860.8	26425.1	26299.7	19578.1
55°	7733.6	7841.1	8203.8	9981.6	12489.4	16492.8	21239.5	23751.7	24759.2	25229.4	19116.9
57.5°	3757.1	3555.6	3999.0	5427.4	7214.2	11092.2	16380.7	20688.7	22878.5	23729.3	18113.8
60°	1961.4	2037.5	2212.2	2722.7	3730.3	5758.8	10210.0	13787.9	17133.1	18440.7	13729.7
62.5°	1625.6	1652.4	1768.9	2024.1	2480.9	3313.8	5212.4	6721.6	8736.7	9914.5	7809.8
65°	1379.2	1392.7	1518.1	1688.2	1979.3	2333.1	2682.4	2807.8	3398.8	3488.4	2776.4
67.5°	1150.8	1164.3	1298.7	1459.9	1647.9	1742.0	1831.5	1822.6	1889.7	1862.9	1858.4
70°	886.7	900.1	1038.9	1209.1	1303.1	1249.4	1527.0	1589.7	1616.6	1638.9	1674.8
72.5°	640.3	667.2	774.7	895.6	846.4	971.8	1258.3	1352.4	1388.2	1401.6	1446.4
75°	465.7	474.7	501.6	465.7	537.4	676.2	886.7	1003.1	1047.9	1061.3	1128.5
77.5°	206.0	210.5	215.0	268.7	344.8	420.9	528.4	622.4	685.2	703.1	721.0
80°	107.5	111.9	138.8	183.6	246.3	309.0	385.1	438.8	479.1	483.7	501.6
82.5°	67.2	71.7	98.5	129.9	174.7	228.4	282.2	326.9	358.3	362.7	367.2
85°	31.4	40.3	58.2	80.6	116.4	147.8	152.2	129.9	138.8	143.3	134.3
87.5°	8.9	13.5	17.9	13.5	17.9	17.9	22.4	26.8	26.8	26.8	31.4
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°	5037.8	5037.8	5037.8	5037.8	5037.8	5037.8	5037.8	5037.8	5037.8	5037.8	5037.8
2.5°	5118.4	5078.1	4921.4	4863.2	4710.9	4737.8	4657.2	4652.7	4634.8	4630.3	4625.8
5°	5243.8	5118.4	4930.4	4787.1	4701.9	4693.0	4634.8	4634.8	4652.7	4666.1	4634.8
7.5°	5449.8	5306.5	4988.6	4854.3	4778.1	4764.7	4724.4	4693.0	4733.3	4719.9	4684.0
10°	5687.2	5436.4	5100.5	4984.1	4858.7	4827.3	4827.3	4840.8	4773.6	4796.0	4760.2
12.5°	5951.3	5615.5	5243.8	5109.5	4961.7	4943.8	4934.8	4836.3	4872.2	4854.3	4764.7
15°	6287.2	5821.5	5427.4	5199.1	5073.7	4993.0	4876.6	4858.7	4836.3	4791.5	4751.2
17.5°	6650.0	6045.4	5512.5	5225.9	5037.8	4979.6	4890.1	4796.0	4728.9	4737.8	4706.5
20°	6958.9	6251.4	5543.9	5252.8	5010.9	4899.0	4760.2	4701.9	4630.3	4625.8	4621.4
22.5°	7326.1	6529.0	5588.6	5181.1	4930.4	4813.9	4719.9	4616.9	4567.6	4504.9	4536.3
25°	7765.0	6636.5	5597.6	5140.9	4872.2	4666.1	4616.9	4504.9	4487.0	4397.5	4415.3
27.5°	8082.9	6694.7	5526.0	5015.5	4737.8	4581.1	4491.5	4410.9	4379.6	4312.4	4294.5
30°	8508.3	6784.3	5373.7	4858.7	4603.5	4428.8	4375.1	4357.1	4267.6	4195.9	4187.0
32.5°	8992.0	6842.5	5275.2	4697.5	4464.6	4330.3	4357.1	4272.1	4160.1	4097.4	4079.5
35°	9377.1	6864.9	5028.8	4513.9	4370.6	4285.5	4254.2	4236.3	4075.1	4016.9	3972.0
37.5°	9963.7	6815.6	4822.9	4384.0	4267.6	4236.3	4209.4	4088.4	3904.8	3819.8	3757.1
40°	10648.8	6802.2	4558.6	4200.5	4169.1	4204.9	4124.3	3936.2	3681.0	3586.9	3542.1
42.5°	11307.2	6896.2	4393.0	4101.9	4061.6	4075.1	3963.1	3681.0	3555.6	3501.8	3430.2
45°	12408.7	7093.2	4119.8	3949.7	3931.8	3922.8	3788.5	3492.9	3421.3	3354.1	3340.6
47.5°	13402.8	6963.4	3945.2	3792.9	3810.8	3761.5	3475.0	3380.9	3300.3	3233.1	3210.8
50°	13461.0	6654.4	3698.9	3672.1	3676.5	3591.4	3318.2	3255.6	3152.6	3107.7	3076.5
52.5°	13156.6	6148.4	3470.5	3479.5	3492.9	3354.1	3125.7	3080.9	2995.8	2933.2	2915.2
55°	12301.2	5360.3	3246.6	3282.4	3318.2	3054.0	2982.4	2870.4	2803.3	2713.7	2718.2
57.5°	10837.0	4316.9	2933.2	2991.4	3067.5	2776.4	2722.7	2583.8	2485.3	2413.7	2404.8
60°	7263.5	3071.9	2463.0	2485.3	2655.5	2539.1	2534.6	2395.8	2261.4	2198.7	2162.9
62.5°	4285.5	2346.5	2127.1	2104.7	2100.2	2167.4	2279.4	2230.1	2055.4	1934.6	1970.4
65°	2243.5	2028.6	1979.3	1903.2	1858.4	1840.4	1925.6	1947.9	1831.5	1701.7	1692.7
67.5°	1885.3	1885.3	1845.0	1818.1	1755.4	1679.3	1625.6	1553.9	1536.0	1500.2	1455.4
70°	1715.1	1759.9	1746.4	1683.8	1630.0	1544.9	1406.2	1289.7	1177.7	1137.5	1164.3
72.5°	1495.6	1540.5	1540.5	1509.1	1437.4	1307.6	1173.3	1038.9	944.9	873.2	864.3
75°	1150.8	1173.3	1227.0	1191.2	1097.2	1016.5	877.7	738.9	649.3	582.1	568.7
77.5°	734.4	770.2	770.2	765.7	698.6	622.4	532.9	434.4	367.2	318.0	304.5
80°	488.1	510.5	528.4	510.5	465.7	407.5	340.4	273.2	223.9	183.6	174.7
82.5°	358.3	385.1	398.5	380.6	335.9	291.1	241.8	192.6	143.3	111.9	103.0
85°	138.8	143.3	161.2	192.6	188.0	183.6	147.8	107.5	80.6	58.2	53.7
87.5°	35.8	31.4	35.8	35.8	31.4	26.8	26.8	26.8	26.8	13.5	17.9
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)