

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: P651043

Luminaire Tested: **GALN-SA7C-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
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-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40839 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

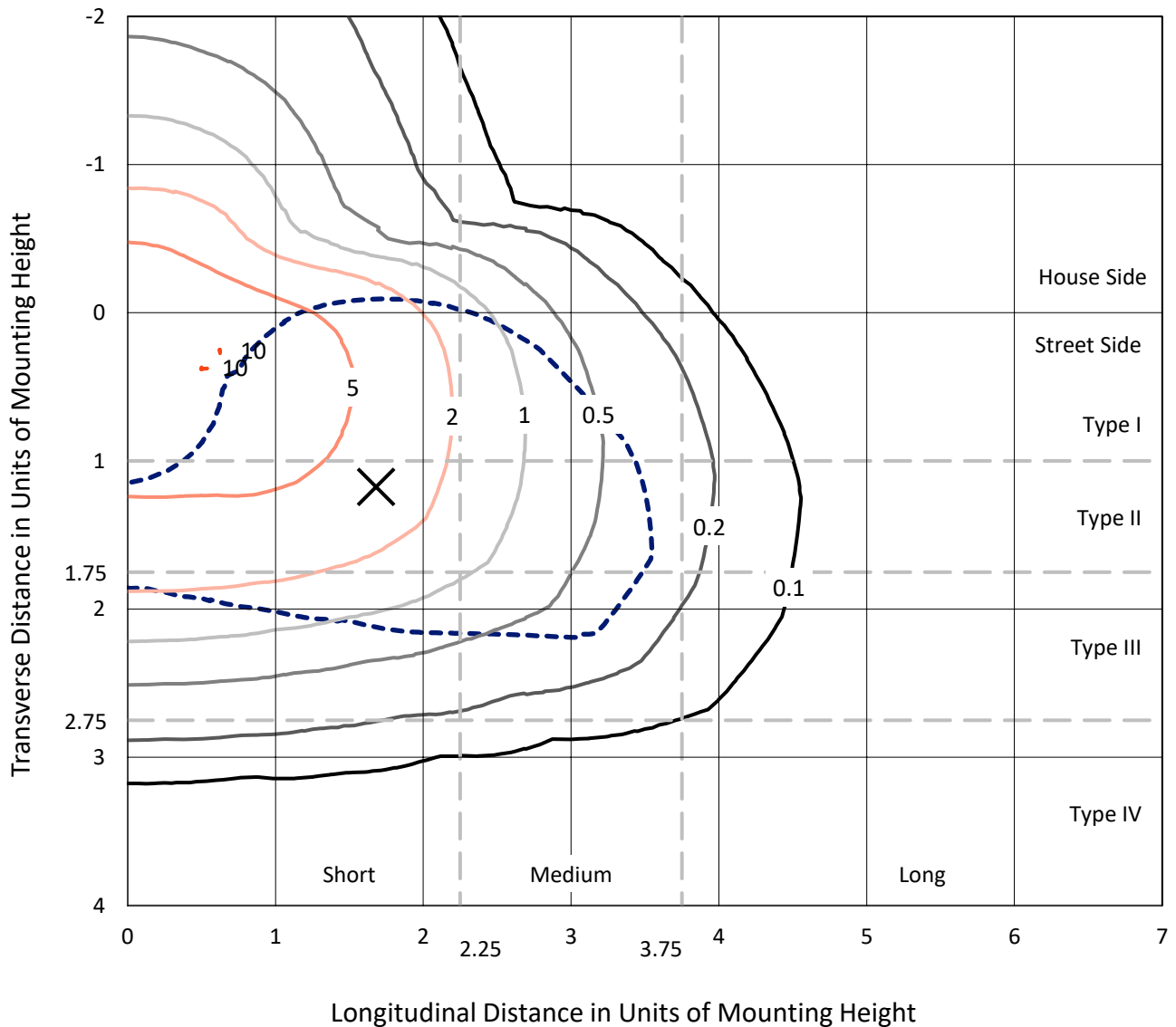
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

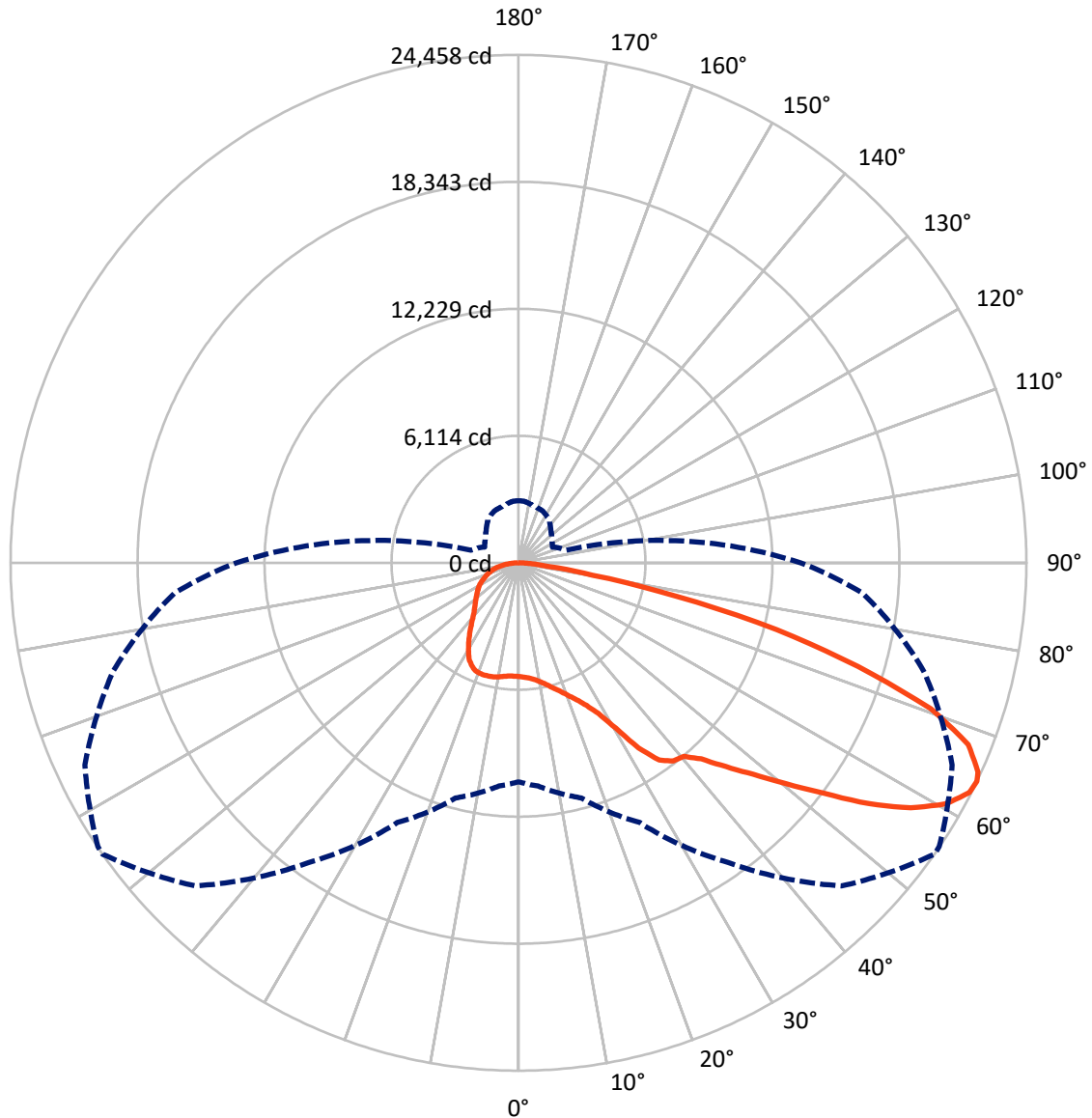
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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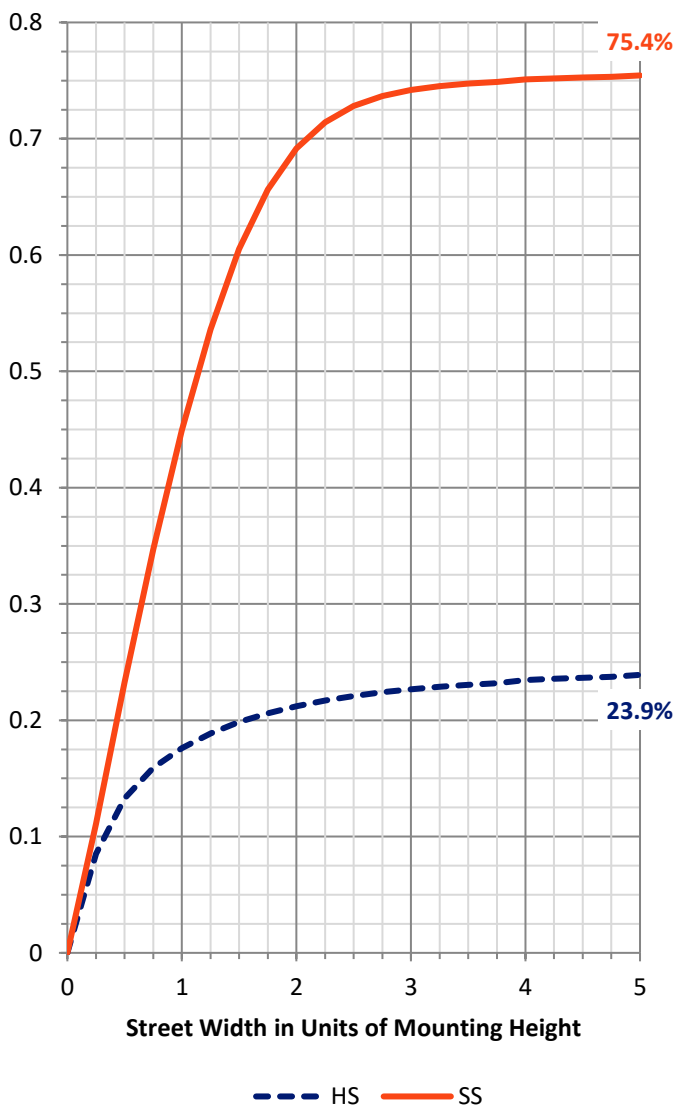
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9920.6	0.0	9920.6
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	30918.4	0.0	30918.4
	% Fixture	75.7	0.0	75.7
Total	Lumens	40839.0	0.0	40839.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.0	1.3
10°-20°	1681.8	4.1
20°-30°	2994.0	7.3
30°-40°	4606.6	11.3
40°-50°	6530.2	16.0
50°-60°	9452.3	23.1
60°-70°	9782.1	24.0
70°-80°	4581.0	11.2
80°-90°	678.2	1.7
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°	40839.0	100.0
0°-180°	40839.0	100.0

Coefficient of Utilization



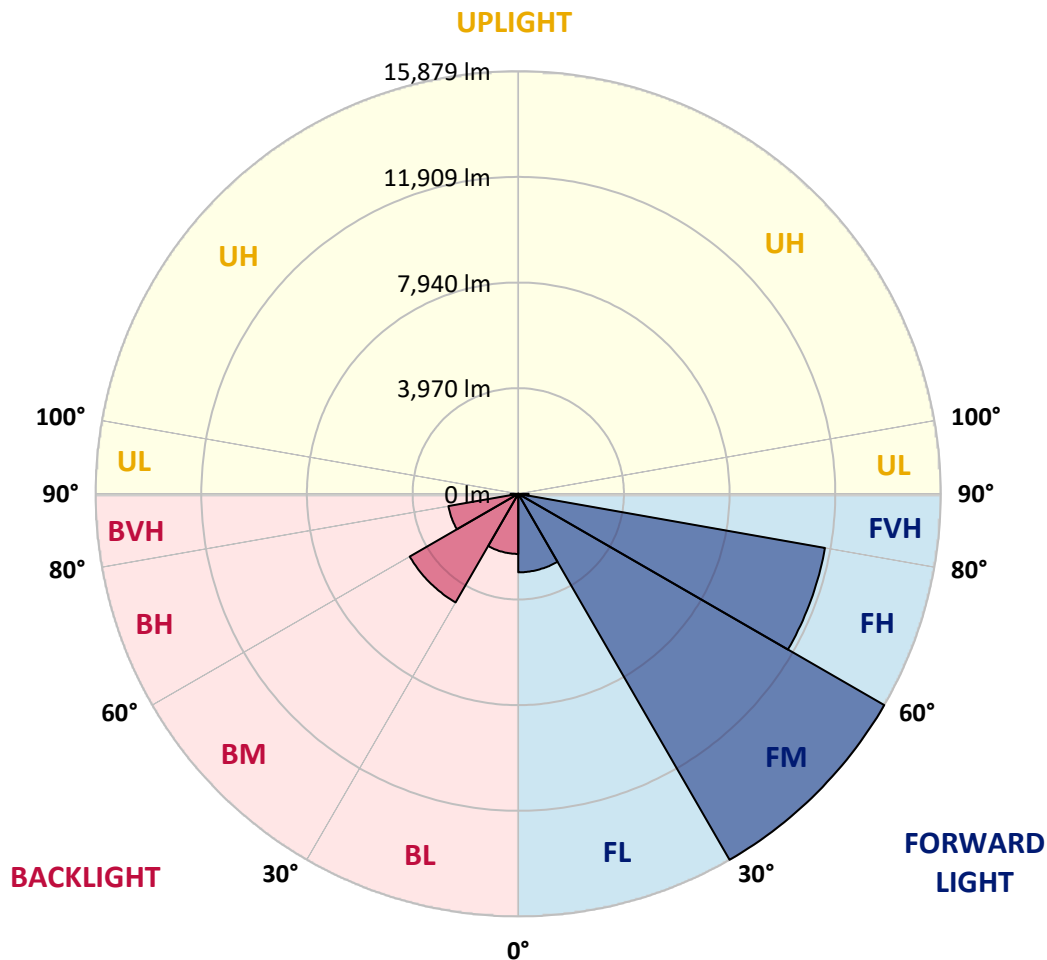
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2949.2	7.2			
FM (30°-60°)	15879.3	38.9			
FH (60°-80°)	11701.6	28.7			G4/12000
FVH (80°-90°)	388.3	1.0			G3/500
BL (0°-30°)	2259.5	5.5	B3/2500		
BM (30°-60°)	4709.7	11.5	B3/5000		
BH (60°-80°)	2661.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	289.9	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5479.4	5479.4	5479.4	5479.4	5479.4	5479.4	5479.4	5479.4	5479.4	5479.4	5479.4
2.5°	5540.8	5538.6	5545.4	5538.6	5543.1	5527.1	5520.3	5524.9	5518.1	5506.7	5486.2
5°	5609.1	5606.9	5609.1	5600.0	5604.6	5595.4	5579.5	5584.1	5572.7	5547.7	5518.1
7.5°	5725.2	5716.1	5716.1	5713.8	5704.8	5691.0	5679.7	5675.2	5663.7	5631.8	5586.3
10°	5875.5	5875.5	5877.7	5859.5	5870.9	5845.9	5834.4	5832.2	5793.5	5752.5	5688.8
12.5°	6073.5	6084.9	6078.1	6068.9	6064.4	6055.3	6016.6	6025.7	5982.5	5911.9	5834.4
15°	6319.4	6337.6	6326.2	6321.6	6310.3	6276.1	6260.2	6253.3	6196.4	6094.0	5991.5
17.5°	6644.9	6622.1	6613.0	6601.6	6553.8	6528.8	6501.4	6496.9	6446.9	6326.2	6166.8
20°	6929.4	6961.3	6943.1	6931.7	6883.9	6836.1	6815.6	6808.8	6765.5	6633.5	6378.6
22.5°	7268.6	7275.5	7282.3	7255.0	7232.2	7195.8	7159.3	7148.0	7132.0	6995.4	6683.6
25°	7630.6	7657.9	7635.1	7607.9	7580.5	7578.3	7612.4	7607.9	7601.0	7468.9	7088.8
27.5°	8220.2	8245.2	8252.1	8222.5	8117.8	8126.8	8204.2	8229.3	8334.0	8115.5	7610.1
30°	8552.5	8577.6	8634.5	8746.1	8912.2	9057.9	9244.5	9301.5	9401.6	8989.6	8229.3
32.5°	8757.4	8766.5	8868.9	9076.1	9574.6	10118.7	10626.4	10646.8	10710.6	10132.4	8796.1
35°	9080.7	9087.5	9169.4	9397.1	9982.2	10888.2	11673.5	11698.6	11646.2	10487.5	9060.2
37.5°	9479.0	9497.2	9549.6	9738.5	10437.4	11532.4	12108.3	12090.1	11625.7	10769.8	9526.8
40°	10059.5	10059.5	9998.1	10253.1	10917.8	11901.2	12260.9	12229.0	12106.0	11587.0	10237.1
42.5°	10571.7	10562.6	10708.3	10881.3	11518.7	12470.3	12900.5	12952.8	13155.4	12613.7	11045.2
45°	11238.7	11279.7	11361.7	11675.8	12540.8	13442.3	13997.8	14047.8	14334.7	13822.4	11990.0
47.5°	11912.5	11926.2	12183.4	12602.3	13806.5	14760.3	15215.6	15297.5	15559.3	15236.1	13007.5
50°	12390.6	12520.3	12932.4	13592.5	15110.9	16367.5	16722.6	16820.5	17282.6	16775.0	14193.5
52.5°	12896.0	13023.4	13526.6	14532.7	16608.8	18011.1	18448.2	18514.2	18994.5	18332.0	15406.9
55°	13328.5	13446.8	14018.2	15365.9	17801.6	19688.8	20481.0	20403.6	20633.5	19531.7	16342.5
57.5°	13399.1	13494.7	14214.0	15898.5	18698.5	21127.5	22263.5	22309.0	22042.6	20428.6	17114.2
60°	12852.7	13048.5	13874.8	15841.7	19101.5	22129.1	23592.9	23624.8	22869.0	20888.5	17421.5
62.5°	11885.2	11864.7	12864.1	14926.5	18536.9	22356.8	24376.0	24341.8	23192.3	20667.7	17123.3
64°	10548.9	10794.8	11728.2	13802.0	17626.4	22006.2	24457.9	24439.7	23037.4	20207.8	16615.6
65°	9734.0	9720.4	10642.3	12882.3	16720.3	21478.0	24312.2	24287.2	22714.1	19795.8	16221.8
67.5°	7027.3	7059.2	7969.7	9941.1	13592.5	19413.4	23363.0	23269.6	21439.4	18429.9	14723.9
70°	4256.9	4275.1	4989.9	6594.8	9756.8	15693.6	21059.2	21063.8	19488.5	16390.2	12531.7
72.5°	2242.3	2290.0	2576.9	3744.7	5925.5	11011.0	17084.6	17489.8	16731.7	13988.6	9900.2
75°	1247.5	1254.4	1456.9	1846.2	3023.1	6162.3	12841.3	12957.4	13246.5	11259.2	7321.0
77.5°	951.5	965.2	1029.0	1192.9	1645.8	2856.9	7771.7	8354.5	9335.6	7937.9	4177.2
80°	771.7	785.3	840.0	937.9	1095.0	1354.5	3610.4	3924.5	4996.7	3523.9	1629.9
82.5°	601.0	591.9	662.5	726.2	796.8	801.3	1481.9	1639.0	2035.1	1516.1	705.7
85°	446.2	446.2	503.1	489.5	514.4	468.9	653.4	721.7	814.9	644.2	327.8
87.5°	177.5	195.8	330.1	295.9	229.9	184.4	241.3	255.0	282.2	252.7	136.6
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°	5479.4	5479.4	5479.4	5479.4	5479.4	5479.4	5479.4	5479.4	5479.4	5479.4	5479.4
2.5°	5488.5	5495.3	5479.4	5468.0	5463.4	5456.6	5449.8	5452.0	5461.1	5470.3	5468.0
5°	5515.8	5518.1	5490.7	5477.1	5468.0	5458.8	5458.8	5465.7	5483.9	5497.5	5497.5
7.5°	5584.1	5584.1	5545.4	5520.3	5506.7	5490.7	5486.2	5488.5	5502.2	5520.3	5522.6
10°	5691.0	5682.0	5631.8	5593.2	5568.2	5529.4	5495.3	5477.1	5483.9	5495.3	5495.3
12.5°	5820.8	5795.8	5732.0	5679.7	5618.2	5545.4	5474.8	5438.4	5436.1	5447.5	5443.0
15°	5959.7	5932.3	5843.6	5748.0	5641.0	5533.9	5449.8	5397.4	5356.4	5345.1	5370.1
17.5°	6121.3	6064.4	5941.5	5809.5	5650.1	5511.2	5379.2	5272.2	5199.3	5178.9	5185.7
20°	6317.1	6242.0	6075.8	5868.7	5643.3	5429.2	5224.4	5081.0	4962.6	4926.2	4930.7
22.5°	6588.0	6458.2	6214.7	5898.2	5586.3	5274.5	4989.9	4803.3	4659.8	4603.0	4637.1
25°	6895.3	6754.2	6346.7	5891.4	5438.4	5026.3	4712.2	4468.7	4338.9	4254.6	4272.9
27.5°	7318.7	7068.3	6487.8	5829.9	5226.6	4723.6	4359.3	4129.4	4011.1	3967.8	3988.3
30°	7860.5	7475.8	6640.4	5663.7	4892.0	4341.2	4004.3	3854.0	3783.4	3728.8	3747.0
32.5°	8252.1	7762.6	6674.5	5383.7	4530.0	3992.8	3763.0	3651.4	3574.0	3521.6	3533.0
35°	8532.0	8006.2	6658.5	5040.0	4152.2	3706.0	3571.7	3480.6	3355.4	3241.6	3221.1
37.5°	8907.6	8311.3	6542.5	4664.4	3778.9	3512.5	3416.9	3248.4	3068.6	2916.1	2909.3
40°	9483.6	8668.6	6294.3	4222.7	3460.1	3369.1	3253.0	3034.5	2841.0	2718.0	2708.9
42.5°	10077.7	8998.7	5957.4	3758.3	3198.4	3218.8	3077.7	2861.5	2743.1	2663.4	2654.3
45°	10803.9	9356.1	5593.2	3355.4	3004.9	3077.7	2925.2	2800.0	2729.5	2677.1	2663.4
47.5°	11589.3	9722.6	5183.4	2993.5	2841.0	2948.0	2861.5	2804.6	2765.9	2729.5	2713.5
50°	12436.1	10132.4	4798.7	2702.1	2693.1	2813.6	2854.6	2834.2	2811.4	2800.0	2786.3
52.5°	13364.9	10551.3	4475.5	2497.3	2563.3	2718.0	2856.9	2872.9	2872.9	2866.0	2856.9
55°	13993.1	10842.6	4147.6	2331.1	2431.2	2640.7	2852.3	2913.8	2936.6	2927.5	2918.4
57.5°	14457.5	11002.0	3735.6	2187.6	2319.6	2565.6	2827.4	2918.4	2941.1	2952.5	2948.0
60°	14553.2	10854.0	3196.1	2037.4	2199.0	2456.2	2736.3	2850.1	2879.7	2950.2	2957.0
62.5°	14122.9	10398.7	2658.9	1889.5	2051.0	2290.0	2613.3	2772.7	2831.9	2941.1	2952.5
64°	13594.8	9888.8	2360.7	1796.1	1955.4	2196.8	2551.8	2752.2	2829.6	2975.3	2984.4
65°	13207.8	9517.8	2174.0	1736.9	1894.0	2135.3	2517.7	2759.1	2850.1	3027.7	3041.3
67.5°	11782.7	8240.6	1798.4	1598.1	1748.3	2030.6	2524.5	2815.9	2845.5	3048.1	3045.8
70°	9750.0	6560.6	1507.0	1470.6	1607.2	1946.3	2497.3	2724.8	2727.2	2861.5	2829.6
72.5°	7300.5	4848.8	1306.7	1338.5	1450.1	1746.0	2358.4	2602.0	2563.3	2581.4	2549.6
75°	5015.0	3207.5	1124.6	1197.4	1286.1	1543.4	2162.6	2363.0	2301.5	2278.7	2255.9
77.5°	2677.1	1773.3	935.6	1058.6	1117.7	1334.0	1887.1	2080.6	2016.9	1928.2	1898.6
80°	1083.5	835.4	753.5	876.4	910.6	1074.5	1570.7	1691.4	1643.6	1488.8	1438.7
82.5°	544.0	500.8	591.9	689.8	692.1	767.2	1167.8	1281.6	1174.6	985.7	942.4
85°	284.6	293.7	407.5	484.9	428.0	414.3	701.1	776.2	712.5	619.2	557.8
87.5°	102.4	118.4	214.0	211.7	150.2	79.6	154.8	75.1	41.0	25.1	31.9
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)