

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: P651422

Luminaire Tested: **GALN-SA5D-840-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-840-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27778.2 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

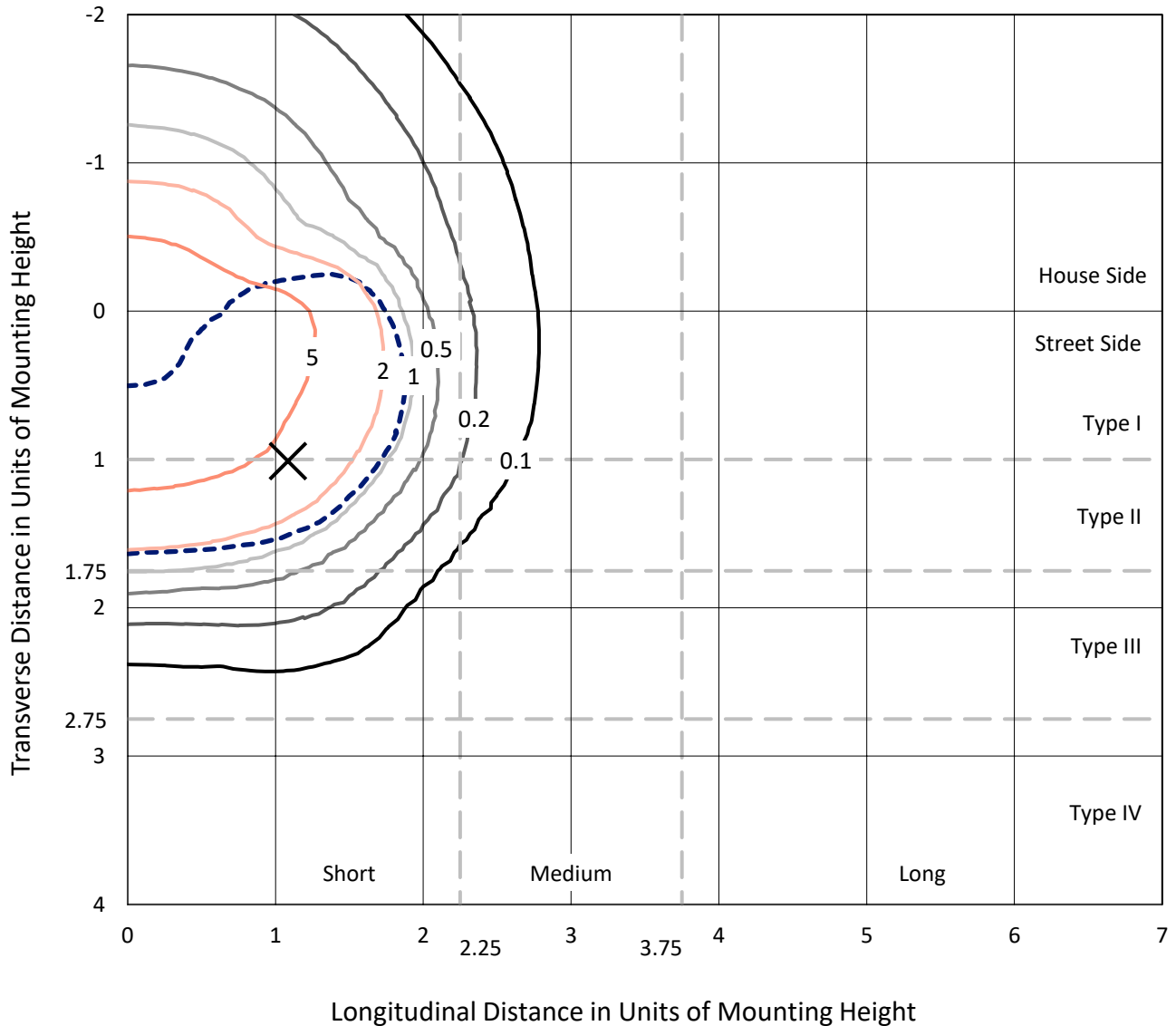
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

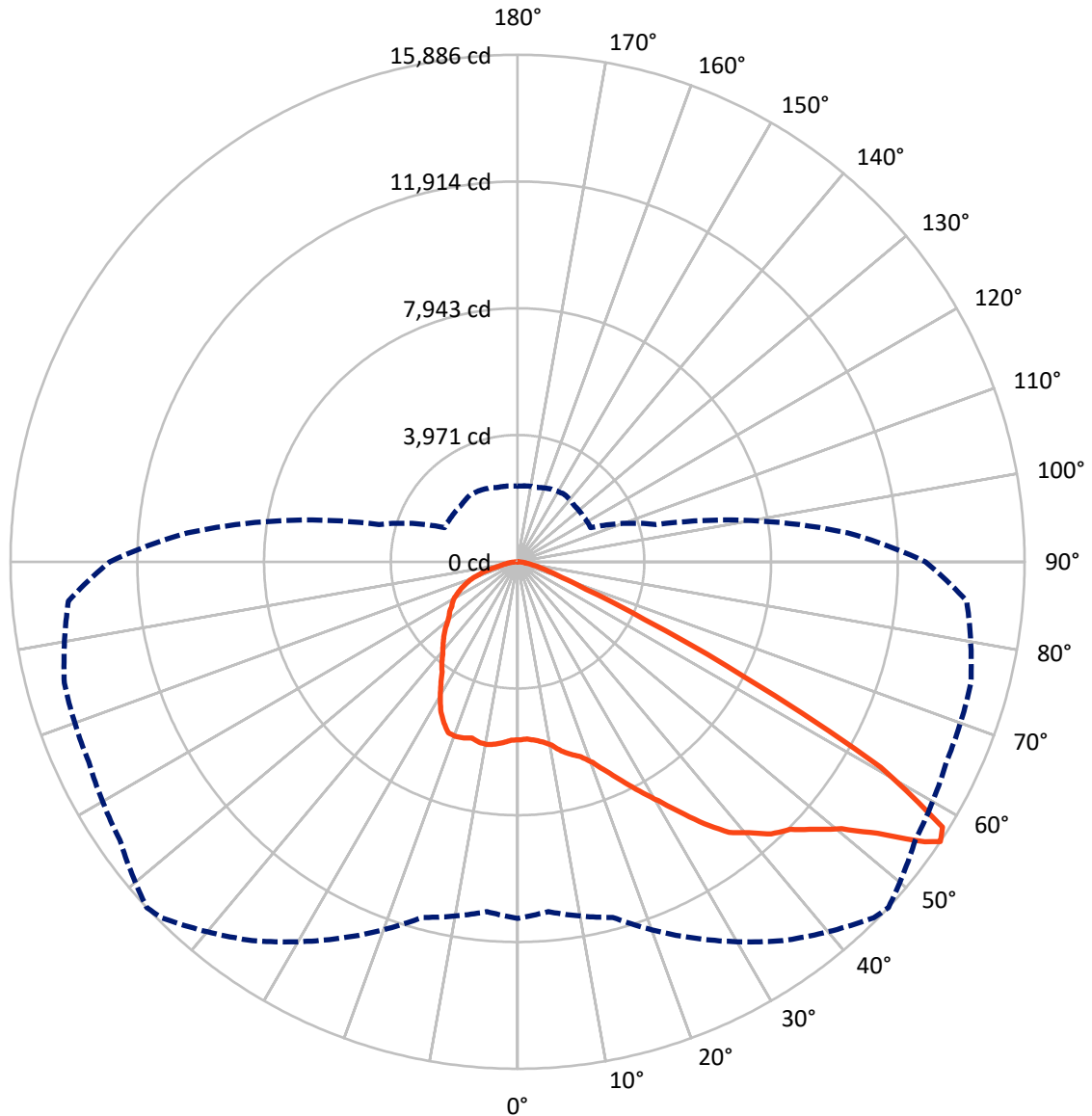
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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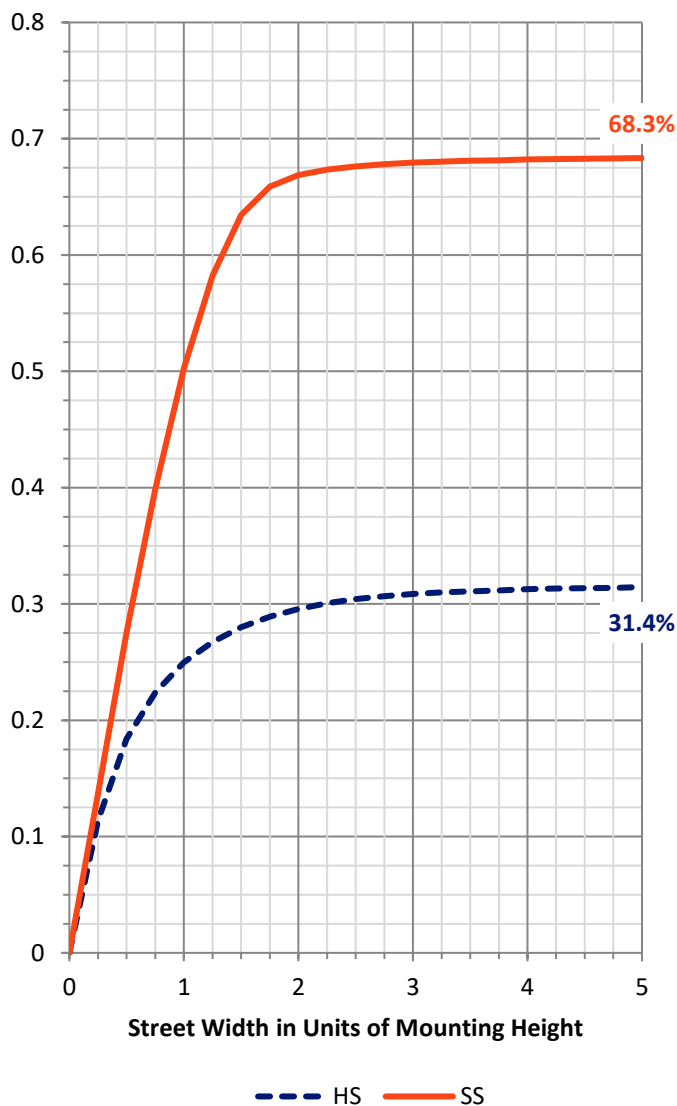
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8802.6	0.0	8802.6
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	18975.6	0.0	18975.6
	% Fixture	68.3	0.0	68.3
Total	Lumens	27778.2	0.0	27778.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.7	2.0
10°-20°	1715.0	6.2
20°-30°	3031.8	10.9
30°-40°	4553.6	16.4
40°-50°	6249.4	22.5
50°-60°	7445.3	26.8
60°-70°	3186.1	11.5
70°-80°	901.7	3.2
80°-90°	151.7	0.5
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°	27778.2	100.0
0°-180°	27778.2	100.0

Coefficient of Utilization

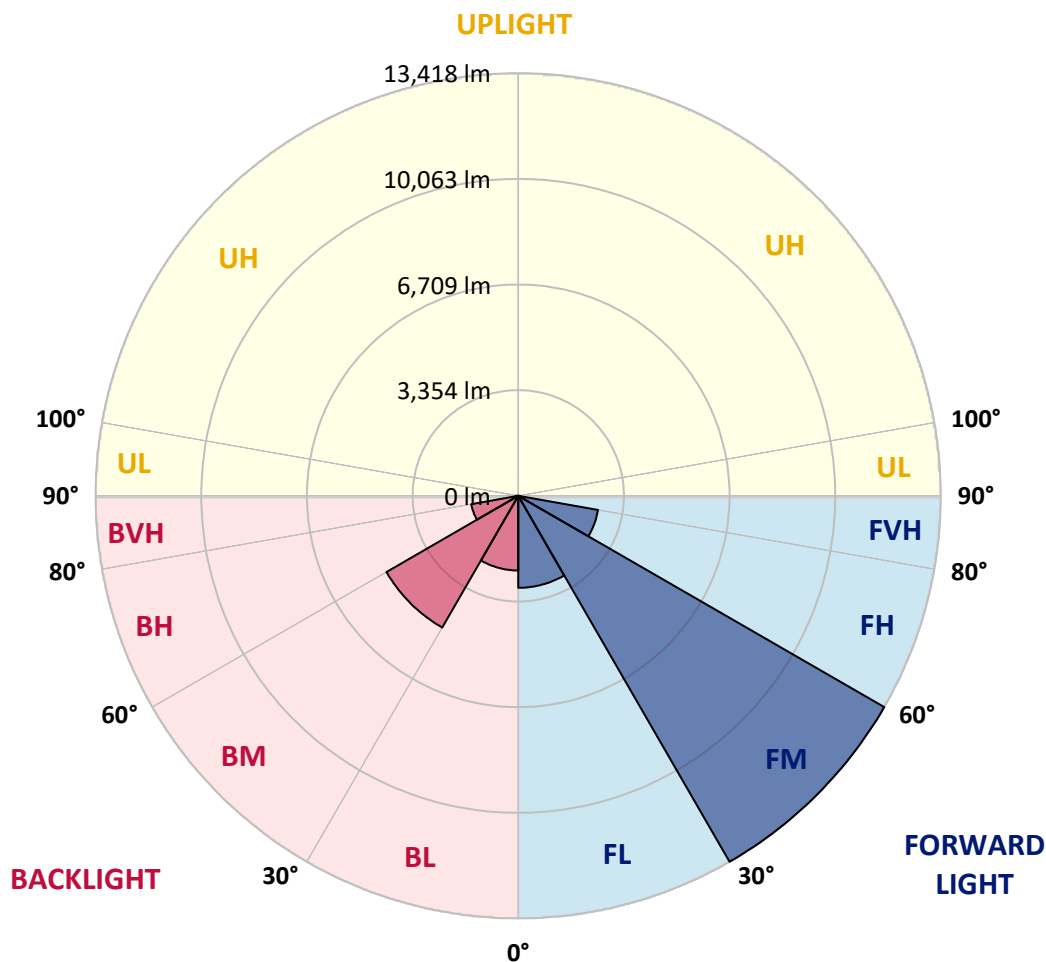


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2920.4	10.5			
FM (30°-60°)	13417.5	48.3			
FH (60°-80°)	2573.3	9.3			G2/5000
FVH (80°-90°)	64.4	0.2			G1/100
BL (0°-30°)	2370.0	8.5	B3/2500		
BM (30°-60°)	4830.7	17.4	B3/5000		
BH (60°-80°)	1514.5	5.5	B3/2500		G3/2500
BVH (80°-90°)	87.3	0.3			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°	47°	55°	65°	75°	85°
0°	5579.8	5579.8	5579.8	5579.8	5579.8	5579.8	5579.8	5579.8	5579.8	5579.8	5579.8
2.5°	5558.5	5547.9	5540.8	5597.5	5576.3	5579.8	5558.5	5579.8	5594.0	5562.1	5608.1
5°	5547.9	5579.8	5551.4	5569.2	5615.2	5601.1	5615.2	5657.7	5647.1	5636.5	5622.3
7.5°	5647.1	5650.7	5671.9	5679.0	5693.1	5679.0	5700.2	5739.2	5728.6	5668.3	5675.5
10°	5788.9	5795.9	5799.5	5838.4	5863.2	5866.7	5842.0	5806.5	5803.0	5884.5	5827.8
12.5°	5951.8	5934.1	5976.6	5990.8	6019.1	6051.0	6082.9	6008.4	6054.5	6058.1	5990.8
15°	6189.2	6206.8	6157.3	6157.3	6167.9	6171.4	6260.0	6224.6	6217.5	6178.5	6206.8
17.5°	6543.4	6423.0	6419.4	6369.8	6362.8	6391.1	6423.0	6451.3	6546.9	6469.1	6316.7
20°	6802.0	6830.3	6727.7	6667.4	6678.0	6741.8	6709.9	6837.5	6904.8	6777.3	6628.4
22.5°	7259.1	7163.4	7188.2	7053.6	7064.2	7131.5	7128.0	7259.1	7298.0	7096.1	6880.0
25°	7567.2	7542.5	7563.7	7457.5	7471.6	7524.8	7609.8	7825.9	7762.1	7538.9	7039.4
27.5°	8017.2	7967.6	7949.9	7911.0	7896.7	8038.4	8137.7	8367.9	8321.9	7996.0	7322.8
30°	8477.8	8445.9	8463.6	8304.2	8360.9	8662.0	8690.3	9005.6	8984.4	8410.4	7638.1
32.5°	8796.6	8814.4	8846.2	8757.7	9009.1	9250.1	9345.7	9703.5	9721.3	9122.5	8247.5
35°	9310.3	9250.1	9267.8	9370.5	9487.4	9926.7	10082.6	10320.0	10468.8	9870.1	8832.0
37.5°	9632.6	9696.5	9622.0	9785.0	10089.7	10617.5	10759.2	11003.7	11159.6	10606.9	9629.1
40°	10135.7	10033.0	10086.2	10203.1	10514.9	11202.1	11163.2	11414.6	11464.3	11234.0	10373.1
42.5°	10677.8	10628.2	10553.8	10819.5	11081.7	11581.2	11659.1	11542.2	11793.8	11846.9	11435.9
45°	11326.1	11386.3	11397.0	11404.0	11634.3	12070.1	11963.8	11861.0	12151.6	12537.7	12094.9
47.5°	11928.4	11737.1	11875.3	12066.6	12392.5	12396.0	12520.1	12275.6	12583.8	12927.4	12690.1
50°	12130.3	12038.2	12222.4	12583.8	13086.9	13140.0	13154.2	12807.0	12966.4	13239.2	12895.6
52.5°	12052.4	12020.5	12491.7	13051.4	13788.3	14057.6	14128.4	13699.7	13788.3	13664.3	13349.0
55°	11680.4	11776.0	12250.8	13391.5	14521.6	15354.2	15488.8	14946.8	14383.5	14479.2	14132.0
56°	11170.2	11003.7	11535.2	13005.4	14489.8	15775.8	15885.6	15209.0	14826.3	14702.4	14124.8
57.5°	9476.8	9260.7	9958.6	11701.7	13685.6	15616.4	15697.9	15318.7	14751.9	14500.4	13093.9
60°	5547.9	5654.2	6539.9	8070.3	10557.3	12803.5	13076.2	13352.6	12973.5	11846.9	9746.1
62.5°	2678.3	2611.0	3245.2	4626.8	6433.6	8173.1	8091.6	8867.4	9292.5	8417.6	6153.8
65°	1403.0	1395.8	1771.4	2525.9	3535.6	4293.8	4368.2	4786.2	5370.8	4336.3	3124.7
67.5°	1030.9	1059.2	1247.0	1774.9	2274.4	2320.5	2309.9	2518.9	2575.6	2178.8	1920.2
70°	807.8	821.9	960.1	1349.8	1693.4	1516.3	1484.4	1509.2	1675.7	1746.6	1661.6
72.5°	584.6	598.7	715.6	910.5	1059.2	1034.5	1055.7	1193.9	1399.3	1473.8	1385.2
75°	389.7	400.3	464.1	556.2	627.0	676.7	715.6	875.1	1066.4	1108.9	1066.4
77.5°	269.3	279.9	322.4	393.3	400.3	432.2	446.4	520.7	637.7	690.8	662.5
80°	152.3	152.3	173.6	201.9	248.0	290.5	297.6	357.8	411.0	446.4	453.5
82.5°	70.9	74.4	92.1	124.0	163.0	201.9	209.0	248.0	286.9	322.4	333.0
85°	35.4	38.9	53.2	74.4	99.2	120.4	116.9	120.4	127.6	120.4	124.0
87.5°	10.6	10.6	14.2	17.7	14.2	17.7	17.7	21.3	24.8	28.3	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5579.8	5579.8	5579.8	5579.8	5579.8	5579.8	5579.8	5579.8	5579.8	5579.8	5579.8
2.5°	5611.7	5622.3	5551.4	5618.8	5594.0	5590.5	5640.0	5632.9	5650.7	5643.5	5601.1
5°	5615.2	5590.5	5664.8	5597.5	5629.4	5696.7	5650.7	5756.9	5703.8	5739.2	5661.3
7.5°	5725.0	5732.2	5718.0	5746.3	5732.2	5764.0	5739.2	5764.0	5721.5	5725.0	5795.9
10°	5820.7	5799.5	5824.3	5788.9	5813.6	5803.0	5746.3	5728.6	5742.8	5725.0	5771.1
12.5°	5997.8	5958.9	5941.2	5898.7	5870.3	5764.0	5675.5	5625.9	5693.1	5703.8	5682.6
15°	6178.5	6182.1	6100.6	6004.9	5827.8	5668.3	5689.6	5707.4	5707.4	5735.7	5682.6
17.5°	6291.9	6291.9	6217.5	6026.2	5845.5	5753.4	5732.2	5675.5	5625.9	5618.8	5615.2
20°	6490.2	6430.0	6260.0	6022.7	5838.4	5795.9	5636.5	5501.8	5399.1	5363.7	5360.1
22.5°	6717.0	6564.7	6327.3	6029.7	5827.8	5767.6	5469.9	5268.0	5083.8	5005.9	5016.5
25°	6926.1	6681.6	6366.3	5997.8	5788.9	5498.3	5165.3	4885.5	4694.1	4630.4	4598.5
27.5°	7071.3	6805.6	6366.3	6026.2	5643.5	5197.2	4857.1	4499.3	4332.7	4290.3	4297.3
30°	7266.2	6961.5	6476.1	5966.0	5353.0	4807.5	4400.1	4166.2	4067.1	4031.7	4056.4
32.5°	7723.2	7368.8	6628.4	5820.7	5009.4	4417.8	4088.4	3957.2	3812.0	3741.1	3716.3
35°	8219.2	7755.0	6777.3	5576.3	4623.2	4063.5	3858.0	3737.6	3564.0	3486.0	3500.2
37.5°	8920.6	8251.1	6787.9	5172.4	4205.3	3865.2	3677.4	3489.6	3347.9	3227.4	3192.0
40°	9866.5	8927.7	6763.1	4747.3	3868.7	3631.3	3493.1	3259.3	3099.9	3014.9	3032.6
42.5°	10699.0	9721.3	6660.3	4265.5	3564.0	3471.9	3316.0	3085.7	2929.9	2841.2	2834.2
45°	11400.5	10305.8	6465.5	3854.5	3308.9	3294.7	3114.1	2936.9	2812.9	2731.5	2766.9
47.5°	12048.8	10777.0	6171.4	3443.6	3075.1	3103.5	2929.9	2820.0	2742.1	2667.7	2664.1
50°	12282.6	10769.9	5912.8	3103.5	2887.3	2873.2	2866.0	2749.1	2667.7	2603.9	2632.2
52.5°	12672.4	10890.4	5632.9	2869.6	2717.3	2720.8	2745.6	2660.6	2568.5	2529.5	2565.0
55°	13232.1	10908.1	5016.5	2596.8	2575.6	2600.4	2600.4	2543.7	2465.7	2433.9	2416.1
56°	12775.1	10380.2	4499.3	2525.9	2504.8	2504.8	2572.0	2508.3	2412.6	2387.8	2366.6
57.5°	11783.2	9094.2	3765.9	2440.9	2409.0	2458.7	2494.1	2426.8	2338.2	2302.7	2324.0
60°	8127.0	6153.8	2830.6	2256.7	2256.7	2338.2	2366.6	2267.3	2228.4	2224.9	2196.5
62.5°	4743.7	3585.3	2214.2	2090.2	2097.3	2164.6	2185.8	2129.2	2079.6	2139.8	2168.2
65°	2515.3	2139.8	1898.9	1913.1	1916.6	1969.8	2061.9	2058.3	2054.8	2072.5	2076.0
67.5°	1820.9	1778.5	1725.3	1711.1	1718.2	1757.2	1849.3	1920.2	1916.6	1874.1	1842.2
70°	1622.5	1562.3	1530.5	1534.0	1505.6	1551.7	1626.1	1672.2	1590.7	1541.0	1519.9
72.5°	1349.8	1332.1	1310.8	1314.3	1257.6	1247.0	1162.0	1162.0	1140.7	1126.6	1151.4
75°	1030.9	1023.8	1034.5	1016.8	956.6	892.8	843.2	797.1	726.3	697.9	683.7
77.5°	651.9	673.1	697.9	658.9	634.1	588.1	538.5	492.4	435.7	403.8	403.8
80°	442.9	460.5	478.3	471.2	442.9	400.3	361.4	311.8	272.8	248.0	244.5
82.5°	336.6	350.7	375.5	347.2	318.8	283.4	251.5	216.1	180.6	152.3	152.3
85°	120.4	138.2	152.3	166.5	177.1	180.6	155.9	127.6	102.8	81.5	78.0
87.5°	31.9	35.4	38.9	35.4	35.4	35.4	38.9	35.4	31.9	24.8	24.8
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)