

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: P652638

Luminaire Tested: **GALN-SA9B-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652638
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-SA9B-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43021.4 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

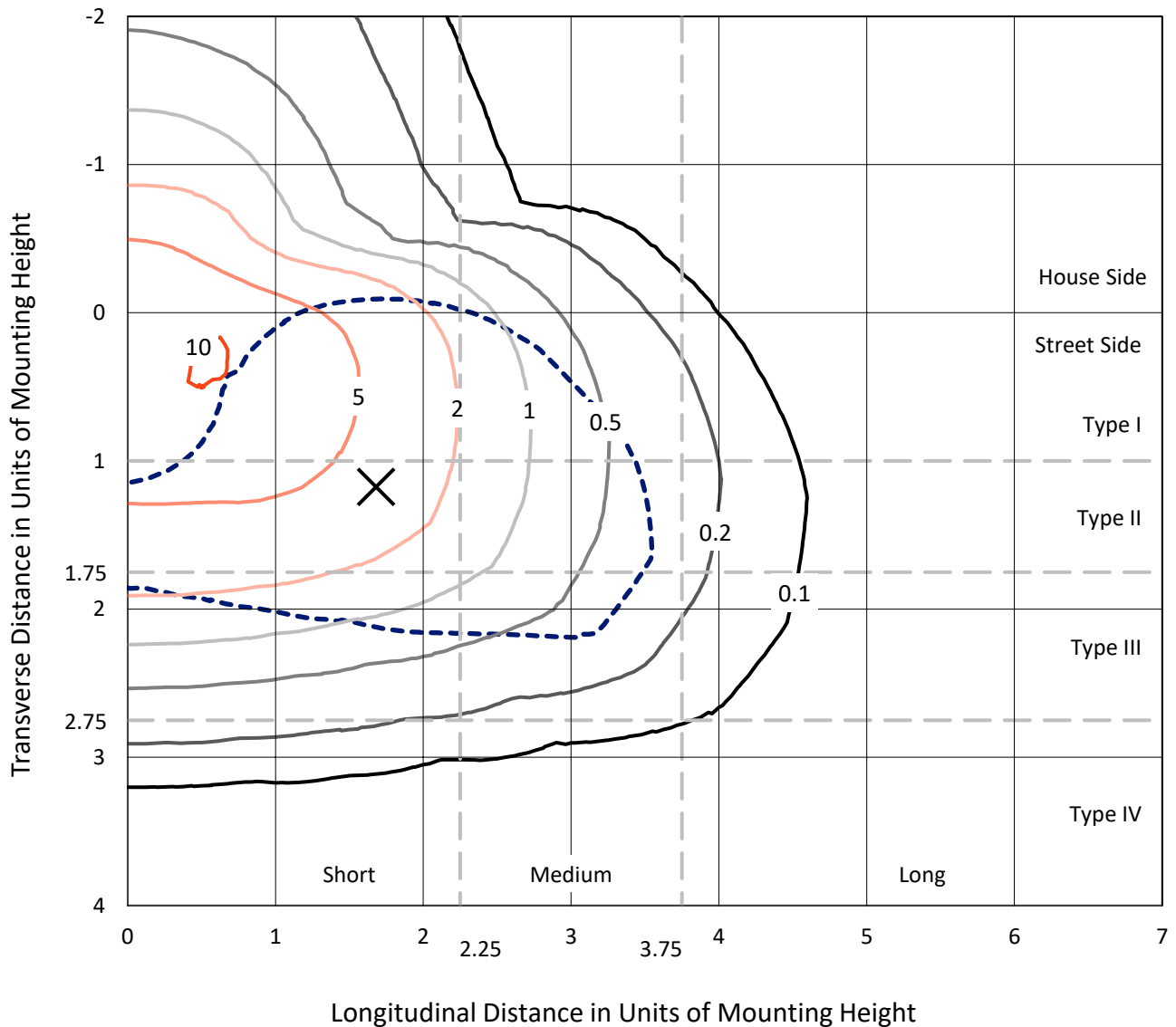
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

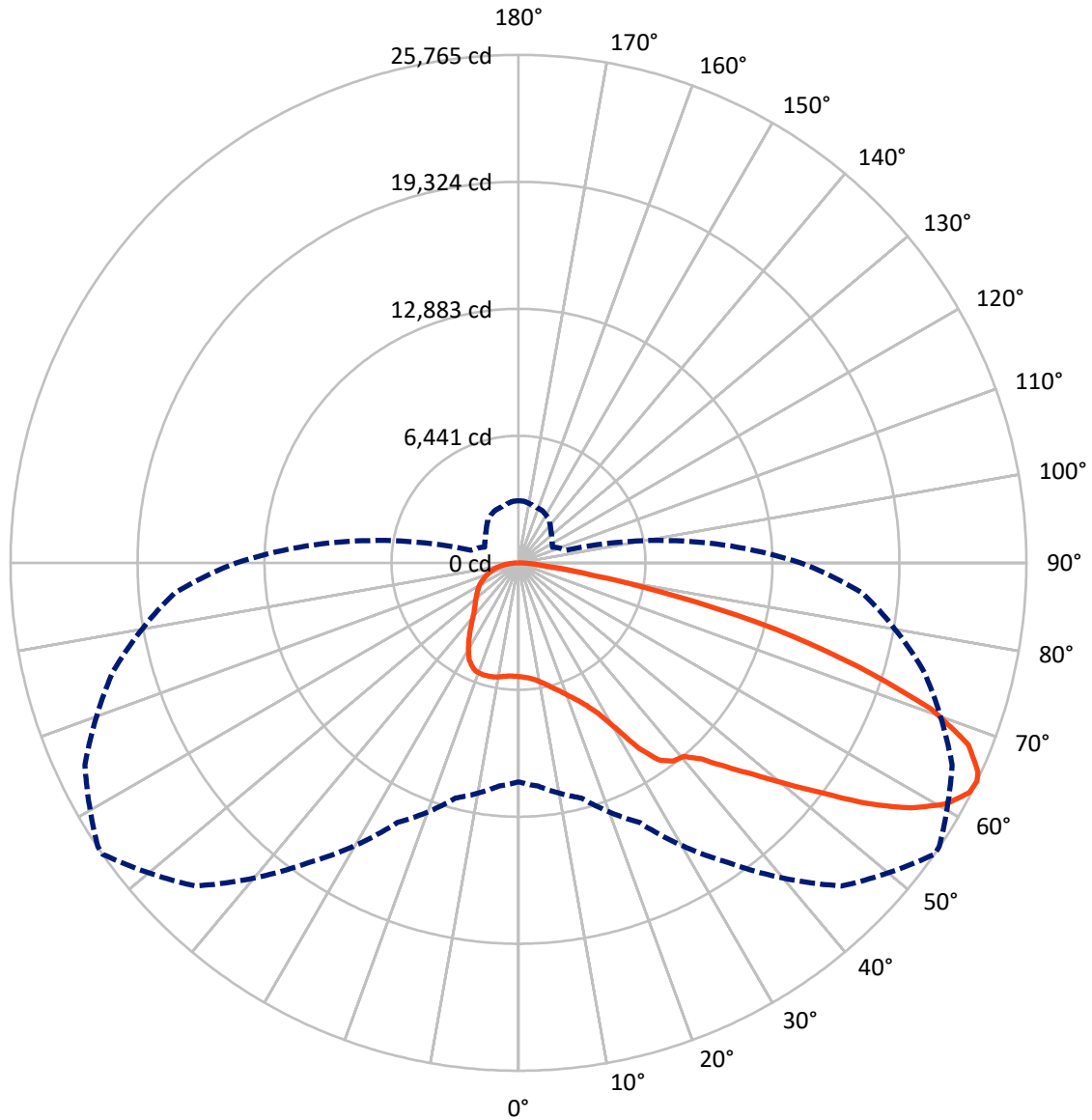
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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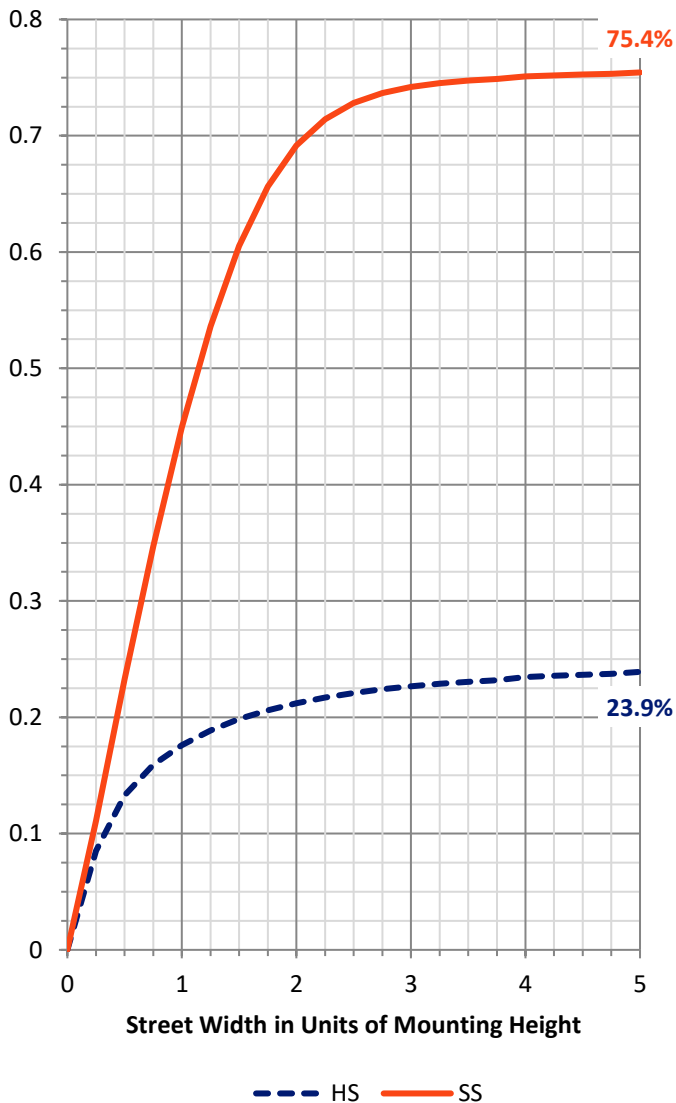
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10450.7	0.0	10450.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	32570.6	0.0	32570.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	43021.4	0.0	43021.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.5	1.3
10°-20°	1771.6	4.1
20°-30°	3154.0	7.3
30°-40°	4852.7	11.3
40°-50°	6879.1	16.0
50°-60°	9957.4	23.1
60°-70°	10304.8	24.0
70°-80°	4825.8	11.2
80°-90°	714.4	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°	43021.4	100.0
0°-180°	43021.4	100.0

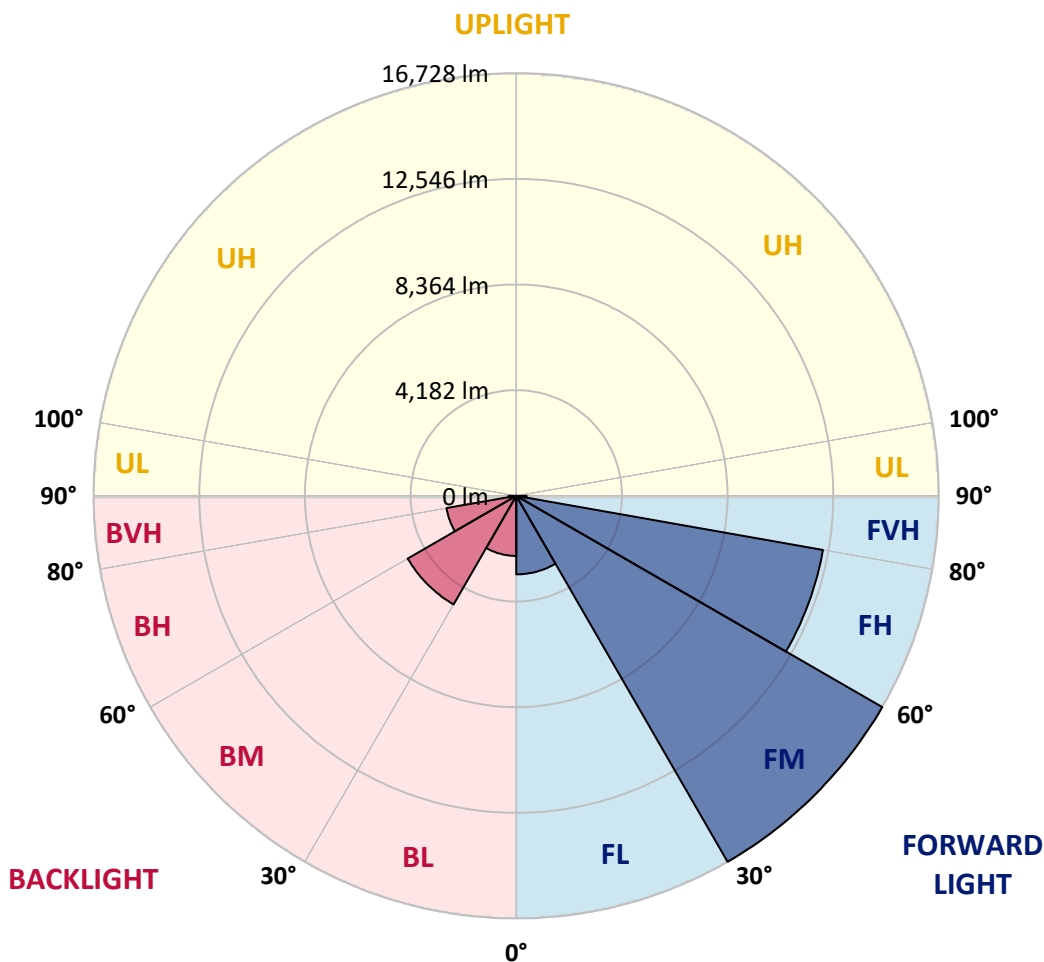


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3106.8	7.2			
FM (30°-60°)	16727.9	38.9			
FH (60°-80°)	12326.9	28.7			G5
FVH (80°-90°)	409.0	1.0			G3/500
BL (0°-30°)	2380.3	5.5	B3/2500		
BM (30°-60°)	4961.4	11.5	B3/5000		
BH (60°-80°)	2803.7	6.5	B4/5000		G4/5000
BVH (80°-90°)	305.4	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-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5772.2	5772.2	5772.2	5772.2	5772.2	5772.2	5772.2	5772.2	5772.2	5772.2	5772.2
2.5°	5836.9	5834.5	5841.7	5834.5	5839.3	5822.5	5815.3	5820.1	5812.9	5801.0	5779.4
5°	5908.9	5906.4	5908.9	5899.3	5904.1	5894.5	5877.7	5882.5	5870.5	5844.1	5812.9
7.5°	6031.1	6021.6	6021.6	6019.2	6009.6	5995.2	5983.2	5978.4	5966.4	5932.8	5884.9
10°	6189.4	6189.4	6191.9	6172.7	6184.6	6158.2	6146.3	6143.8	6103.1	6059.9	5992.8
12.5°	6398.1	6410.0	6402.9	6393.3	6388.5	6378.9	6338.1	6347.7	6302.1	6227.8	6146.3
15°	6657.0	6676.3	6664.3	6659.5	6647.4	6611.5	6594.7	6587.6	6527.6	6419.7	6311.7
17.5°	7000.0	6976.0	6966.4	6954.4	6904.0	6877.7	6848.9	6844.1	6791.3	6664.3	6496.4
20°	7299.7	7333.4	7314.1	7302.2	7251.8	7201.4	7179.9	7172.6	7127.1	6988.0	6719.4
22.5°	7657.1	7664.3	7671.4	7642.7	7618.7	7580.4	7541.9	7530.0	7513.2	7369.3	7040.8
25°	8038.4	8067.1	8043.2	8014.4	7985.6	7983.2	8019.2	8014.4	8007.2	7868.1	7467.6
27.5°	8659.4	8685.8	8693.0	8661.9	8551.5	8561.1	8642.7	8669.0	8779.4	8549.1	8016.7
30°	9009.5	9036.0	9095.9	9213.4	9388.5	9541.9	9738.6	9798.6	9904.0	9470.0	8669.0
32.5°	9225.4	9235.0	9342.9	9561.2	10086.3	10659.4	11194.2	11215.8	11282.9	10673.8	9266.1
35°	9566.0	9573.1	9659.5	9899.2	10515.5	11470.0	12297.4	12323.7	12268.6	11048.0	9544.3
37.5°	9985.6	10004.8	10060.0	10258.9	10995.1	12148.7	12755.4	12736.2	12247.0	11345.3	10035.9
40°	10597.1	10597.1	10532.3	10801.0	11501.2	12537.1	12916.0	12882.4	12752.9	12206.2	10784.1
42.5°	11136.7	11127.1	11280.6	11462.8	12134.3	13136.7	13589.9	13645.1	13858.5	13287.7	11635.5
45°	11839.3	11882.5	11968.8	12299.7	13211.0	14160.7	14745.8	14798.5	15100.7	14561.1	12630.6
47.5°	12549.1	12563.5	12834.5	13275.8	14544.3	15549.1	16028.7	16115.1	16390.8	16050.3	13702.6
50°	13052.7	13189.4	13623.4	14318.9	15918.4	17242.2	17616.3	17719.4	18206.2	17671.4	14952.0
52.5°	13585.1	13719.4	14249.4	15309.3	17496.3	18973.5	19434.0	19503.5	20009.6	19311.7	16230.2
55°	14040.7	14165.5	14767.4	16187.0	18753.0	20741.0	21575.5	21493.9	21736.1	20575.5	17215.8
57.5°	14115.1	14215.8	14973.6	16748.2	19697.8	22256.6	23453.1	23501.2	23220.6	21520.3	18028.8
60°	13539.5	13745.8	14616.2	16688.2	20122.3	23311.7	24853.7	24887.2	24091.0	22004.8	18352.5
62.5°	12520.4	12498.8	13551.5	15724.2	19527.5	23551.5	25678.6	25642.6	24431.6	21772.1	18038.4
64°	11112.7	11371.7	12354.9	14539.5	18568.3	23182.2	25765.0	25745.7	24268.5	21287.7	17503.6
65°	10254.1	10239.8	11211.0	13570.7	17613.9	22625.8	25611.5	25585.1	23928.0	20853.7	17088.7
67.5°	7402.8	7436.5	8395.7	10472.4	14318.9	20450.8	24611.4	24513.1	22585.1	19414.8	15510.7
70°	4484.4	4503.6	5256.6	6947.2	10278.1	16532.3	22184.6	22189.4	20529.9	17266.2	13201.4
72.5°	2362.1	2412.5	2714.6	3944.8	6242.2	11599.5	17997.6	18424.4	17625.8	14736.2	10429.2
75°	1314.1	1321.4	1534.7	1944.8	3184.6	6491.6	13527.6	13649.9	13954.4	11860.9	7712.2
77.5°	1002.4	1016.8	1084.0	1256.6	1733.8	3009.6	8187.1	8800.9	9834.5	8362.1	4400.4
80°	812.9	827.4	884.9	988.0	1153.5	1426.8	3803.3	4134.3	5263.7	3712.3	1717.0
82.5°	633.1	623.5	697.9	765.0	839.3	844.1	1561.1	1726.6	2143.9	1597.1	743.4
85°	470.0	470.0	530.0	515.6	541.9	494.0	688.3	760.2	858.5	678.7	345.3
87.5°	187.0	206.2	347.8	311.8	242.2	194.3	254.2	268.6	297.4	266.2	143.9
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°	5772.2	5772.2	5772.2	5772.2	5772.2	5772.2	5772.2	5772.2	5772.2	5772.2	5772.2
2.5°	5781.8	5788.9	5772.2	5760.2	5755.4	5748.2	5741.0	5743.4	5752.9	5762.6	5760.2
5°	5810.6	5812.9	5784.1	5769.8	5760.2	5750.6	5750.6	5757.7	5777.0	5791.4	5791.4
7.5°	5882.5	5882.5	5841.7	5815.3	5801.0	5784.1	5779.4	5781.8	5796.2	5815.3	5817.7
10°	5995.2	5985.6	5932.8	5892.0	5865.7	5824.9	5788.9	5769.8	5777.0	5788.9	5788.9
12.5°	6131.9	6105.5	6038.4	5983.2	5918.5	5841.7	5767.4	5729.0	5726.6	5738.6	5733.8
15°	6278.1	6249.4	6155.9	6055.1	5942.4	5829.7	5741.0	5685.8	5642.7	5630.7	5657.1
17.5°	6448.5	6388.5	6259.0	6119.9	5952.0	5805.8	5666.7	5554.0	5477.2	5455.7	5462.8
20°	6654.7	6575.5	6400.4	6182.3	5944.9	5719.4	5503.6	5352.5	5227.8	5189.5	5194.3
22.5°	6940.0	6803.4	6546.8	6213.4	5884.9	5556.3	5256.6	5060.0	4908.8	4848.9	4884.9
25°	7263.8	7115.1	6685.9	6206.2	5729.0	5294.9	4964.0	4707.4	4570.8	4482.0	4501.2
27.5°	7709.8	7446.0	6834.6	6141.5	5505.9	4976.0	4592.3	4350.1	4225.4	4179.9	4201.5
30°	8280.6	7875.3	6995.2	5966.4	5153.5	4573.1	4218.2	4059.9	3985.6	3928.1	3947.2
32.5°	8693.0	8177.5	7031.2	5671.5	4772.2	4206.3	3964.1	3846.5	3765.0	3709.8	3721.8
35°	8988.0	8434.1	7014.4	5309.3	4374.1	3904.1	3762.5	3666.7	3534.7	3414.9	3393.3
37.5°	9383.7	8755.4	6892.1	4913.6	3980.8	3700.2	3599.5	3422.0	3232.6	3071.9	3064.8
40°	9990.4	9131.8	6630.7	4448.5	3645.1	3549.2	3426.8	3196.6	2992.8	2863.3	2853.7
42.5°	10616.3	9479.6	6275.8	3959.3	3369.3	3390.9	3242.2	3014.4	2889.7	2805.7	2796.2
45°	11381.3	9856.1	5892.0	3534.7	3165.4	3242.2	3081.5	2949.6	2875.3	2820.1	2805.7
47.5°	12208.6	10242.2	5460.4	3153.5	2992.8	3105.5	3014.4	2954.4	2913.6	2875.3	2858.5
50°	13100.7	10673.8	5055.2	2846.5	2836.9	2964.0	3007.2	2985.6	2961.6	2949.6	2935.3
52.5°	14079.1	11115.1	4714.6	2630.6	2700.2	2863.3	3009.6	3026.3	3026.3	3019.2	3009.6
55°	14741.0	11422.0	4369.3	2455.6	2561.2	2781.8	3004.8	3069.6	3093.5	3083.9	3074.4
57.5°	15230.2	11589.9	3935.2	2304.6	2443.6	2702.6	2978.4	3074.4	3098.3	3110.3	3105.5
60°	15330.9	11434.0	3366.9	2146.3	2316.5	2587.5	2882.5	3002.4	3033.6	3107.9	3115.1
62.5°	14877.6	10954.4	2801.0	1990.4	2160.7	2412.5	2753.0	2920.9	2983.2	3098.3	3110.3
64°	14321.3	10417.2	2486.8	1892.1	2059.9	2314.2	2688.3	2899.3	2980.8	3134.3	3143.9
65°	13913.7	10026.3	2290.1	1829.8	1995.2	2249.4	2652.3	2906.5	3002.4	3189.4	3203.8
67.5°	12412.4	8681.1	1894.5	1683.4	1841.7	2139.1	2659.5	2966.5	2997.6	3211.0	3208.6
70°	10271.0	6911.3	1587.6	1549.1	1693.0	2050.4	2630.6	2870.5	2872.9	3014.4	2980.8
72.5°	7690.6	5107.9	1376.5	1410.1	1527.6	1839.4	2484.4	2741.0	2700.2	2719.5	2685.8
75°	5283.0	3378.9	1184.6	1261.4	1354.9	1625.9	2278.2	2489.2	2424.4	2400.5	2376.5
77.5°	2820.1	1868.1	985.6	1115.1	1177.5	1405.3	1988.0	2191.8	2124.7	2031.2	2000.0
80°	1141.5	880.1	793.7	923.2	959.2	1131.9	1654.7	1781.7	1731.5	1568.4	1515.6
82.5°	573.1	527.6	623.5	726.6	729.0	808.1	1230.2	1350.1	1237.4	1038.4	992.8
85°	299.7	309.3	429.2	510.8	450.9	436.5	738.6	817.7	750.6	652.3	587.5
87.5°	107.9	124.7	225.4	223.0	158.3	83.9	163.1	79.1	43.1	26.4	33.6
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)