

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: P533804

Luminaire Tested: **GALN-SA9B-730-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-730-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39406 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 II - Short
BUG Rating: B4 - U0 - G3

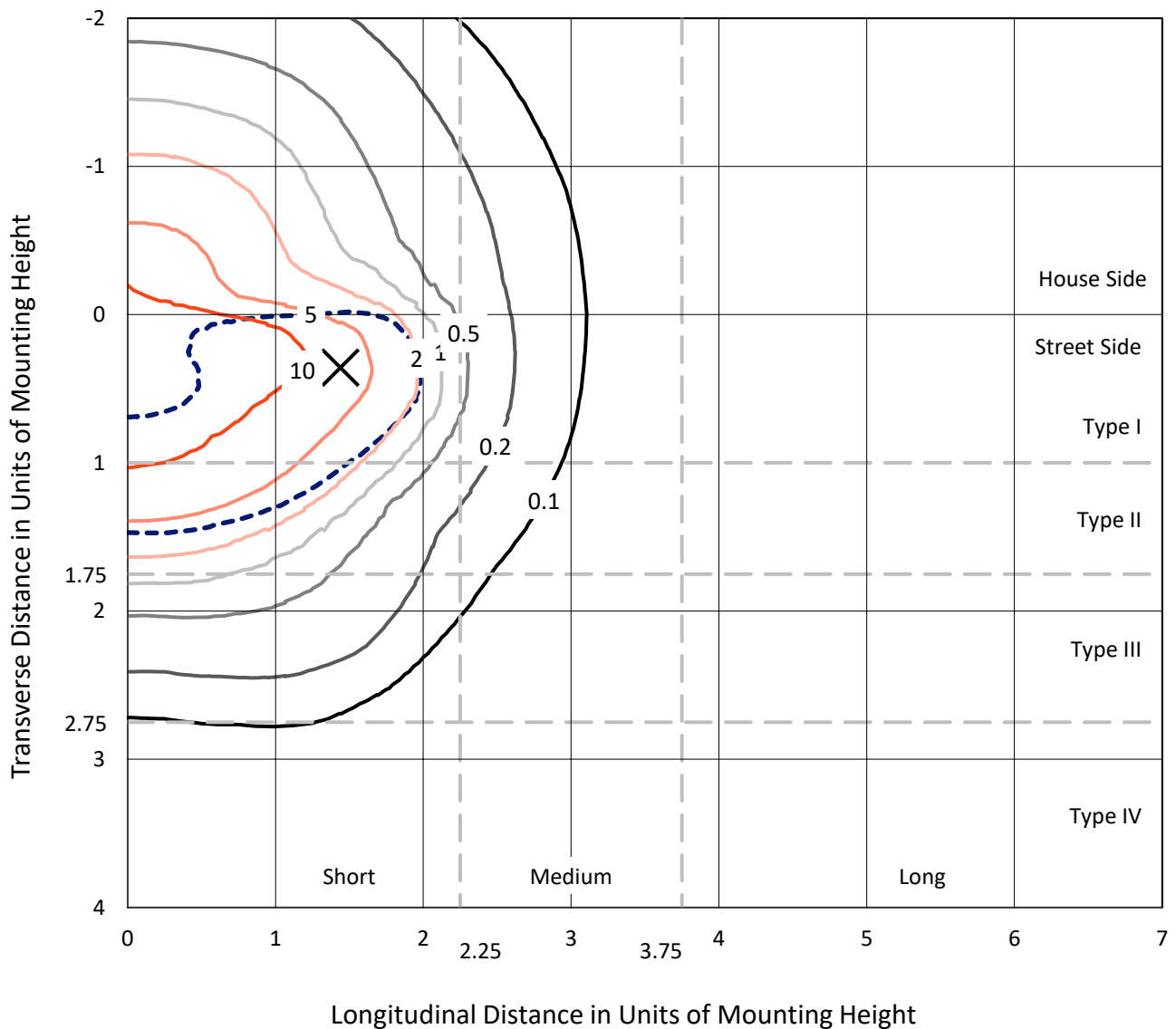
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

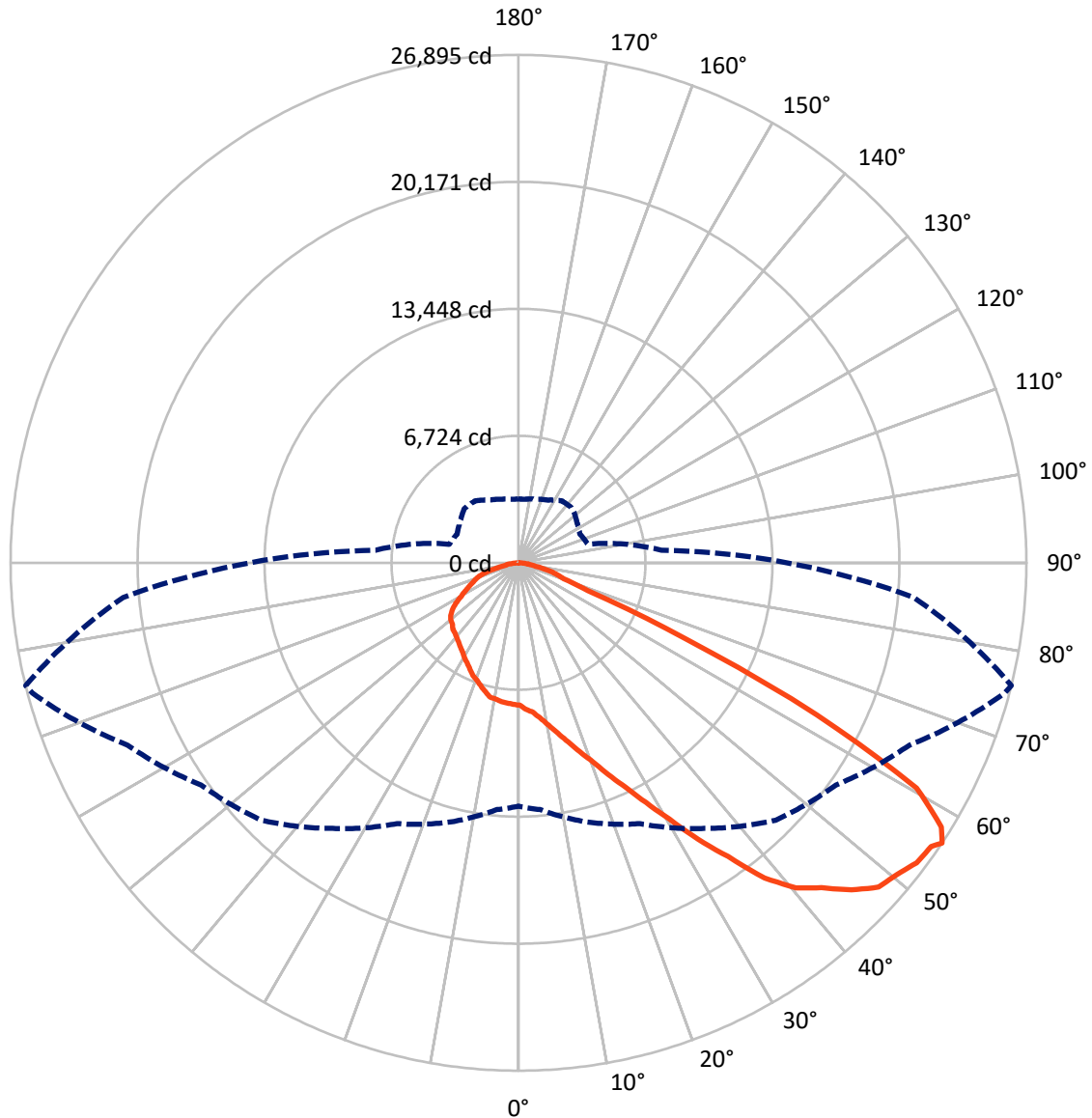
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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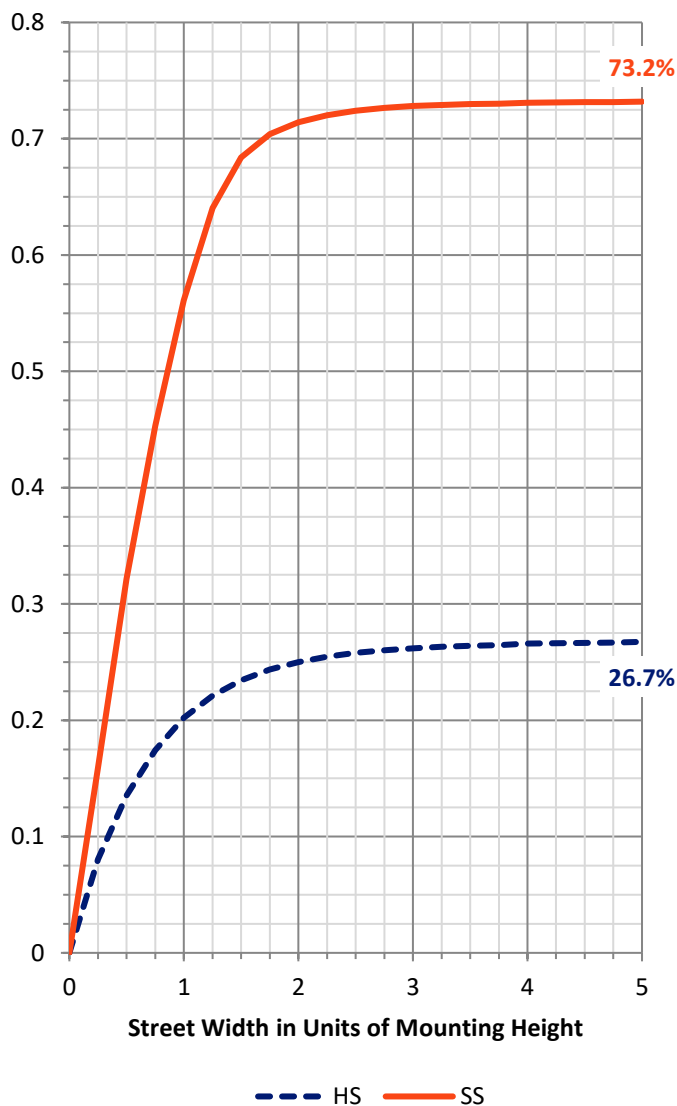
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10595.1	0.0	10595.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	28810.9	0.0	28810.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	39406.0	0.0	39406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	747.7	1.9
10°-20°	2348.8	6.0
20°-30°	4107.8	10.4
30°-40°	6431.6	16.3
40°-50°	9356.2	23.7
50°-60°	10283.1	26.1
60°-70°	4589.9	11.6
70°-80°	1325.7	3.4
80°-90°	215.0	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°	39406.0	100.0
0°-180°	39406.0	100.0

Coefficient of Utilization



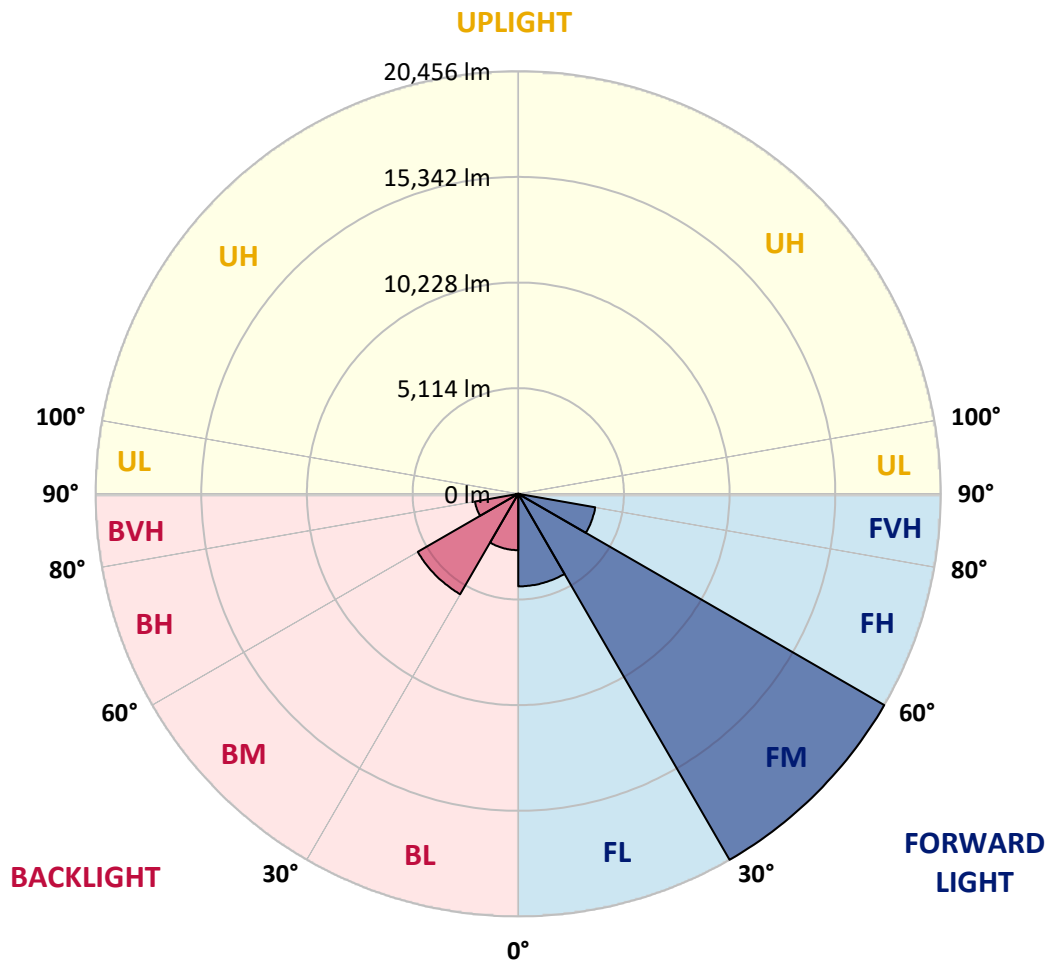
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4478.1	11.4			
FM (30°-60°)	20456.4	51.9			
FH (60°-80°)	3783.9	9.6			G2/5000
FVH (80°-90°)	92.6	0.2			G1/100
BL (0°-30°)	2726.3	6.9	B4/5000		
BM (30°-60°)	5614.5	14.2	B4/8500		
BH (60°-80°)	2131.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	122.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7539.8	7539.8	7539.8	7539.8	7539.8	7539.8	7539.8	7539.8	7539.8	7539.8	7539.8
2.5°	8306.1	8173.3	8163.0	8127.3	8147.7	8055.8	7958.7	7831.0	7698.2	7779.9	7585.8
5°	8888.4	8709.6	8781.1	8658.5	8673.9	8551.3	8352.0	8203.9	8040.4	7943.4	7805.5
7.5°	9092.8	9108.1	9159.2	9138.7	9036.6	9036.6	8903.7	8643.2	8357.2	8301.0	8071.1
10°	9368.6	9373.7	9317.5	9332.8	9475.9	9409.5	9292.0	9179.6	8811.8	8745.4	8336.7
12.5°	9465.7	9373.7	9465.7	9547.4	9716.0	9807.9	9782.4	9700.6	9307.3	9261.3	8663.7
15°	9481.0	9424.8	9501.4	9685.3	9833.5	10221.7	10415.8	10359.6	9838.6	9843.7	9031.5
17.5°	9409.5	9486.1	9516.7	9675.1	10017.4	10380.0	10942.0	11018.6	10589.5	10523.1	9496.3
20°	9506.5	9450.3	9491.2	9634.2	10088.9	10655.9	11391.5	11897.2	11294.4	11248.4	9976.5
22.5°	9879.4	9802.8	9792.6	9884.5	10211.5	10798.9	11866.6	12775.8	12152.6	12178.2	10574.2
25°	10170.6	10211.5	10175.7	10170.6	10374.9	11013.5	12494.9	13823.0	13317.3	13169.2	11279.1
27.5°	10671.2	10768.3	10696.8	10793.8	10747.8	11335.3	12944.4	14982.6	14573.9	14374.7	11917.6
30°	11365.9	11417.0	11350.6	11350.6	11212.7	11784.8	13353.1	16193.3	16024.7	15754.0	12668.6
32.5°	12280.3	12356.9	12224.1	12147.5	12127.1	12454.0	14088.7	17388.6	17674.7	17444.8	13664.7
35°	13491.0	13445.0	13286.7	13215.1	12939.3	13480.8	15181.8	18762.7	19513.7	19105.0	14870.2
37.5°	14558.6	14487.1	14476.9	14078.4	14144.8	14589.3	16111.5	19804.8	21296.4	21179.0	16142.2
40°	15554.7	15621.1	15728.4	15503.7	15401.5	15891.9	17194.5	20601.7	22680.8	22634.8	17123.0
42.5°	16622.4	16561.1	16750.1	16561.1	16407.8	17102.5	18369.4	21153.4	23896.6	23518.6	18149.7
45°	18170.2	17976.1	18042.5	18057.8	17945.4	18200.8	18854.7	21551.9	24749.7	24708.8	18900.7
47.5°	19462.6	19467.7	19355.3	19268.5	18926.2	19181.6	19396.2	21802.2	25730.4	25664.0	19191.8
50°	19942.8	19876.3	20203.3	20392.3	20412.7	19891.7	19820.2	21940.1	26246.4	25955.2	19483.0
52.5°	18216.2	18277.5	18793.4	19917.2	20566.0	20622.2	20315.7	22226.2	26455.8	26394.5	19718.0
55°	14660.8	14957.1	15805.0	17102.5	18640.1	20331.0	20852.0	22522.4	26568.2	26517.1	20760.1
56°	12888.2	13118.1	14221.5	15238.0	17169.0	19273.6	20514.9	22839.2	26655.0	26895.1	21005.3
57.5°	10374.9	10640.6	11432.3	12586.8	14865.1	17260.9	19585.2	22450.9	26317.9	26409.8	21184.1
60°	6487.5	6513.1	7463.2	8224.3	9828.3	12167.9	14946.8	19534.1	24356.3	24223.5	19028.4
62.5°	4255.2	4260.3	5123.6	5746.8	6477.3	7013.7	8796.5	12954.6	17971.0	17736.0	13547.2
65°	2988.3	3054.8	3723.9	4556.6	4852.9	4571.9	4515.7	6829.8	10037.8	9700.6	7279.3
67.5°	2186.3	2191.5	2784.0	3678.0	4107.1	3478.7	2824.9	3335.7	3974.2	3964.0	3371.5
70°	1445.6	1506.9	1961.6	2748.3	3238.7	2794.2	2308.9	2385.6	2528.6	2528.6	2508.2
72.5°	842.9	899.1	1200.4	1741.9	1818.6	1747.0	1828.8	2043.3	2135.3	2130.2	2104.6
75°	480.2	505.7	572.1	725.4	904.2	1067.6	1343.5	1547.8	1639.8	1696.0	1629.5
77.5°	281.0	296.3	337.1	413.8	470.0	577.2	730.5	873.5	996.1	980.8	991.0
80°	148.1	148.1	189.0	245.2	326.9	408.7	485.3	567.0	633.4	648.8	664.1
82.5°	86.8	91.9	122.6	178.8	235.0	291.2	372.9	429.1	490.4	495.5	505.7
85°	46.0	51.1	76.6	117.5	158.4	178.8	183.9	173.7	189.0	178.8	204.3
87.5°	15.3	15.3	25.5	20.4	20.4	25.5	30.6	30.6	40.9	40.9	40.9
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°	7539.8	7539.8	7539.8	7539.8	7539.8	7539.8	7539.8	7539.8	7539.8	7539.8	7539.8
2.5°	7580.7	7580.7	7493.9	7330.4	7304.9	7238.4	7177.1	7172.0	7126.1	7085.2	7064.8
5°	7723.7	7565.4	7437.7	7289.5	7115.8	7034.1	6942.2	6840.0	6799.1	6840.0	6834.9
7.5°	7887.2	7754.4	7371.3	7095.4	6896.2	6814.5	6712.3	6605.0	6615.2	6615.2	6543.7
10°	8045.6	7866.8	7253.8	6901.3	6610.1	6548.8	6492.6	6533.5	6584.6	6594.8	6548.8
12.5°	8311.2	7907.6	7197.6	6707.2	6523.3	6390.5	6426.2	6538.6	6645.9	6615.2	6651.0
15°	8510.4	7943.4	6942.2	6508.0	6278.1	6339.4	6467.1	6543.7	6722.5	6702.1	6737.8
17.5°	8704.5	7963.8	6691.9	6242.3	6145.3	6313.8	6410.9	6630.6	6686.7	6809.3	6855.3
20°	9103.0	8004.7	6436.4	6078.9	6048.2	6242.3	6410.9	6513.1	6635.7	6742.9	6742.9
22.5°	9307.3	7984.3	6267.9	5864.3	5961.4	6084.0	6237.2	6410.9	6410.9	6513.1	6518.2
25°	9562.7	7902.5	6002.2	5762.1	5833.7	5951.2	6124.8	6063.5	6129.9	6129.9	6211.7
27.5°	9853.9	7728.8	5772.4	5578.2	5721.3	5849.0	5874.5	5833.7	5757.0	5746.8	5716.2
30°	10088.9	7514.3	5603.8	5517.0	5634.4	5706.0	5624.2	5537.4	5404.6	5394.4	5322.8
32.5°	10410.7	7248.7	5394.4	5363.7	5496.5	5501.6	5476.1	5343.3	5149.2	5067.4	4985.7
35°	10952.2	7095.4	5236.0	5282.0	5322.8	5307.5	5261.5	5118.5	4924.4	4888.6	4858.0
37.5°	11350.6	6983.0	5072.5	5128.7	5164.5	5184.9	5047.0	4888.6	4893.7	4822.2	4801.8
40°	11800.1	6911.5	4939.7	4965.3	4970.4	5036.8	4868.2	4791.6	4827.3	4781.4	4812.0
42.5°	12377.4	6931.9	4801.8	4781.4	4878.4	4852.9	4771.1	4669.0	4689.4	4551.5	4571.9
45°	12683.9	7069.9	4720.1	4628.1	4735.4	4730.3	4623.0	4525.9	4403.3	4137.7	4147.9
47.5°	12888.2	7105.6	4525.9	4464.6	4577.0	4643.4	4520.8	4296.1	4122.4	3933.4	3887.4
50°	13097.6	7172.0	4434.0	4306.3	4352.3	4510.6	4357.4	4142.8	3974.2	3805.7	3831.2
52.5°	13281.5	7299.7	4255.2	4066.2	4147.9	4321.6	4239.9	3979.4	3795.5	3657.5	3616.7
55°	14098.9	7585.8	3953.8	3708.6	3902.7	4122.4	4076.4	3759.7	3560.5	3489.0	3478.7
56°	14226.6	7596.0	3795.5	3586.0	3764.8	4056.0	3999.8	3662.6	3483.9	3371.5	3376.6
57.5°	14247.0	7473.4	3570.7	3473.6	3626.9	3958.9	3887.4	3586.0	3340.8	3238.7	3208.0
60°	12535.7	5833.7	3289.7	3228.4	3407.2	3662.6	3637.1	3376.6	3100.7	2983.2	3039.4
62.5°	8546.2	4275.6	3070.1	3059.9	3151.8	3402.1	3335.7	3100.7	2870.9	2794.2	2758.5
65°	4975.5	3243.8	2855.5	2814.7	2891.3	3024.1	3070.1	2824.9	2584.8	2533.7	2518.4
67.5°	2937.3	2681.9	2579.7	2513.3	2487.7	2569.5	2605.2	2462.2	2222.1	2150.6	2211.9
70°	2457.1	2385.6	2390.7	2278.3	2217.0	2160.8	2130.2	2002.4	1803.2	1711.3	1685.7
72.5°	2119.9	2089.3	2068.9	1966.7	1910.5	1782.8	1650.0	1522.3	1374.1	1297.5	1302.6
75°	1619.3	1609.1	1619.3	1568.2	1471.2	1369.0	1246.4	1083.0	970.6	873.5	894.0
77.5°	965.5	996.1	1011.4	991.0	950.1	858.2	781.6	674.3	567.0	490.4	480.2
80°	664.1	689.6	715.2	689.6	648.8	582.3	500.6	418.9	342.3	301.4	291.2
82.5°	505.7	531.3	546.6	521.0	470.0	398.4	342.3	286.1	224.8	183.9	173.7
85°	183.9	209.4	204.3	245.2	265.6	255.4	219.7	168.6	127.7	91.9	86.8
87.5°	51.1	46.0	51.1	51.1	51.1	46.0	40.9	40.9	40.9	25.5	20.4
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)