

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: P652415

Luminaire Tested: **GALN-SA5B-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20920.7 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

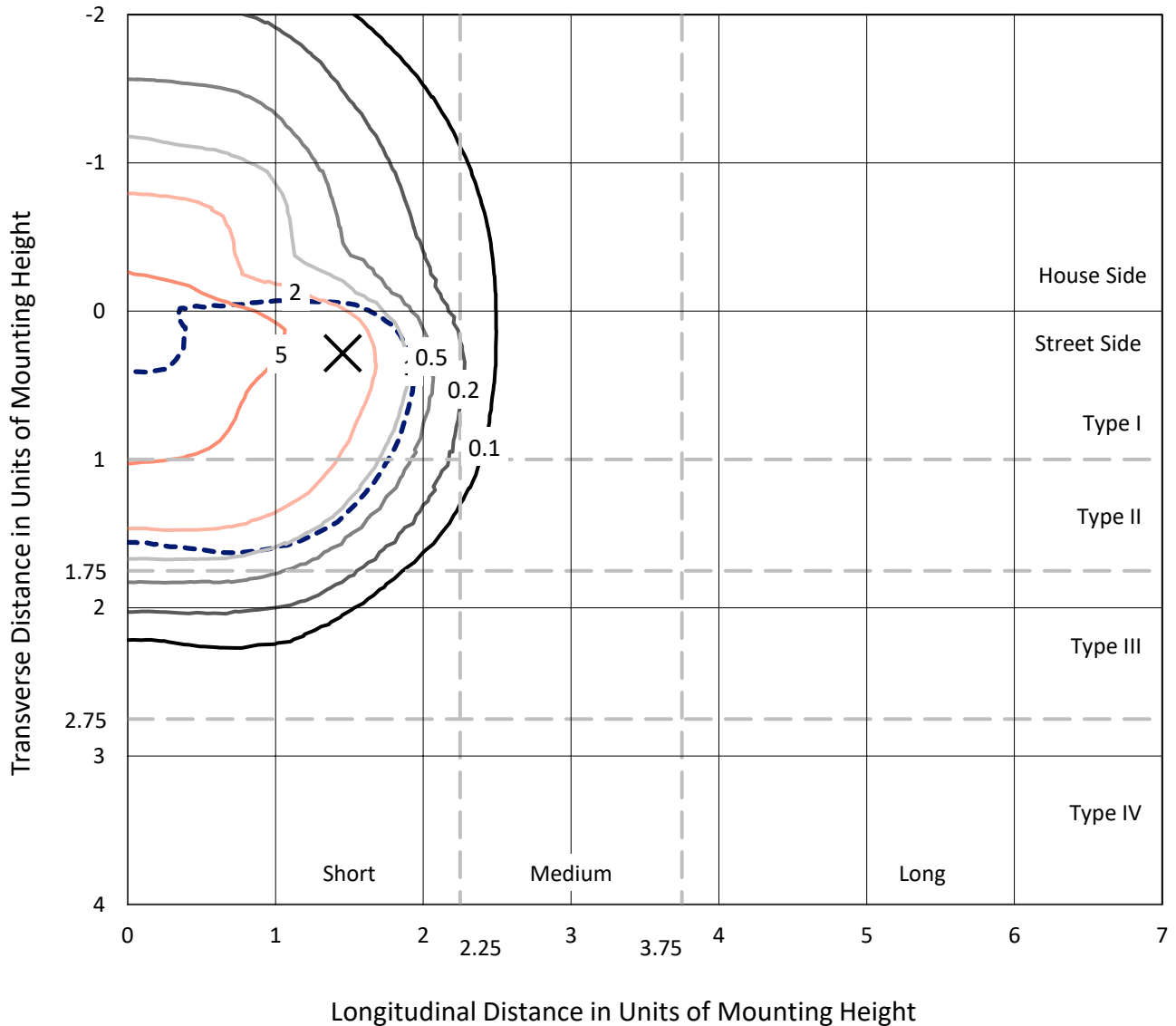
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

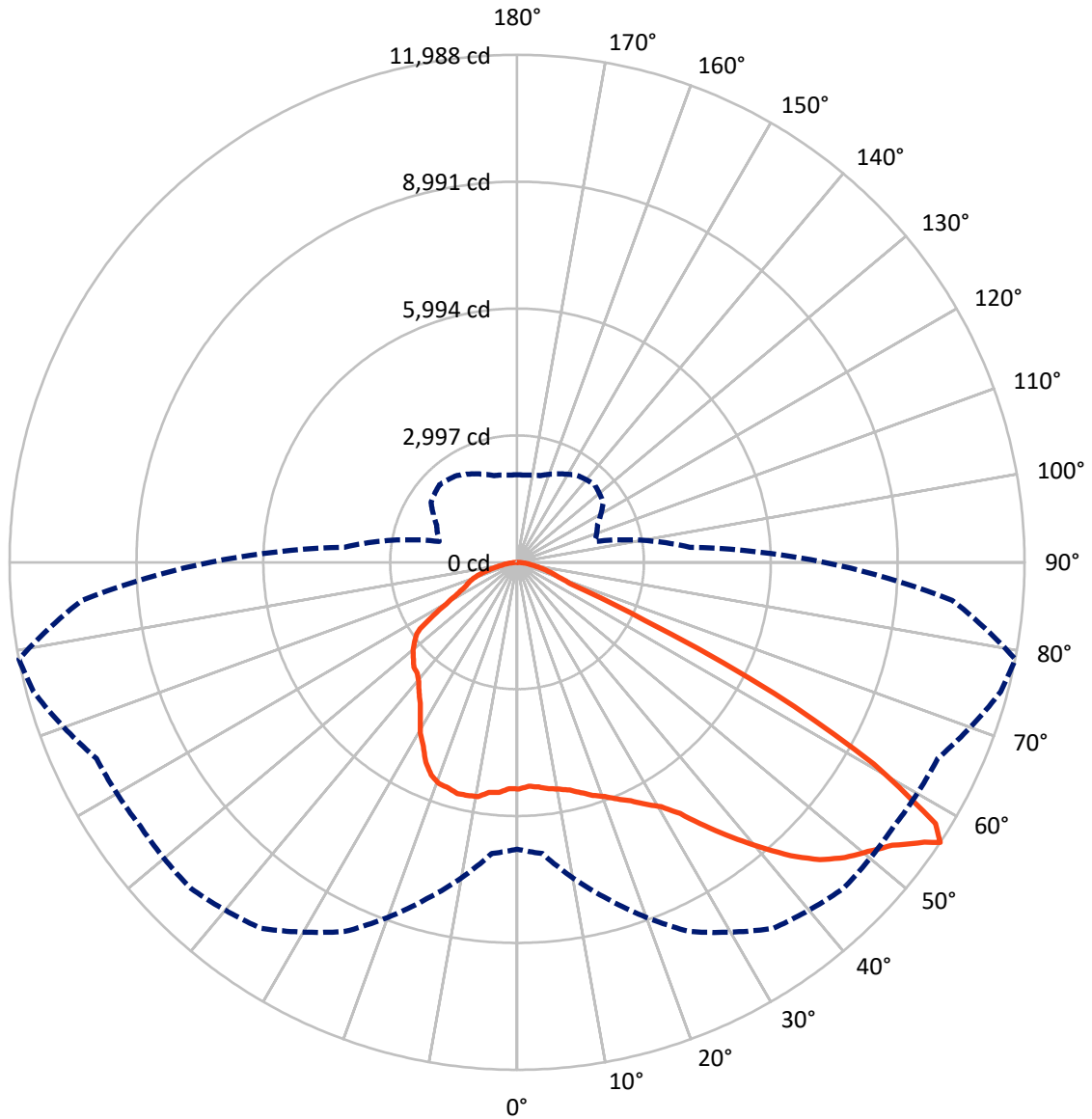
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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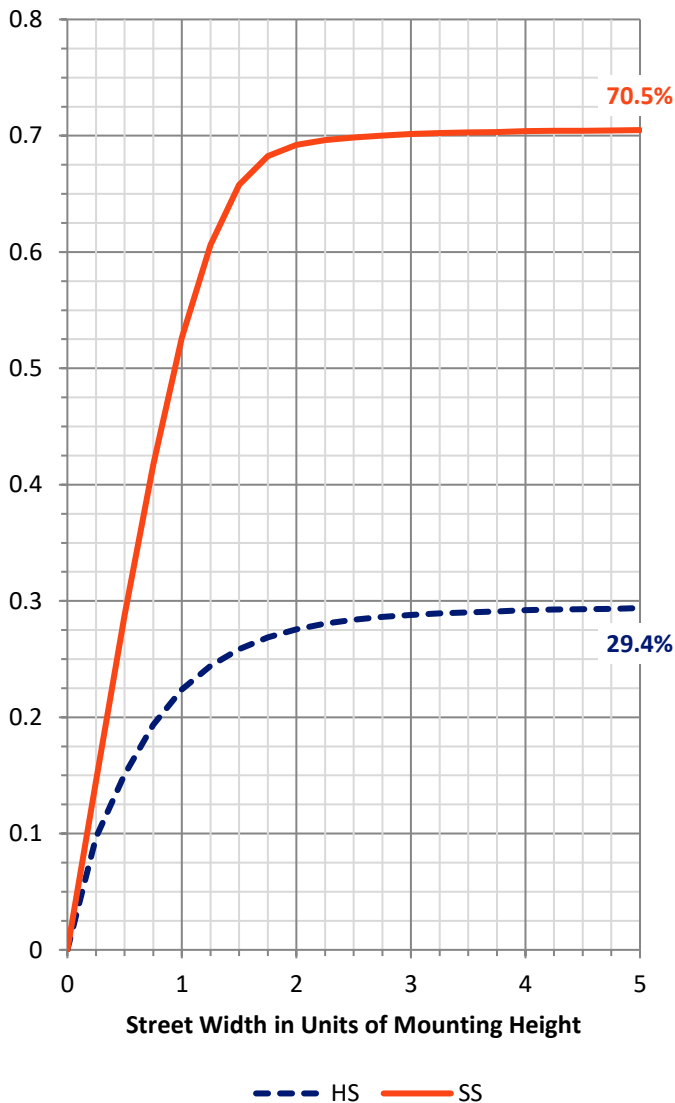
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6178.3	0.0	6178.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	14742.4	0.0	14742.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	20920.7	0.0	20920.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.7	2.3
10°-20°	1331.9	6.4
20°-30°	2278.6	10.9
30°-40°	3492.2	16.7
40°-50°	4719.7	22.6
50°-60°	5420.8	25.9
60°-70°	2470.9	11.8
70°-80°	609.2	2.9
80°-90°	110.7	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°	20920.7	100.0
0°-180°	20920.7	100.0



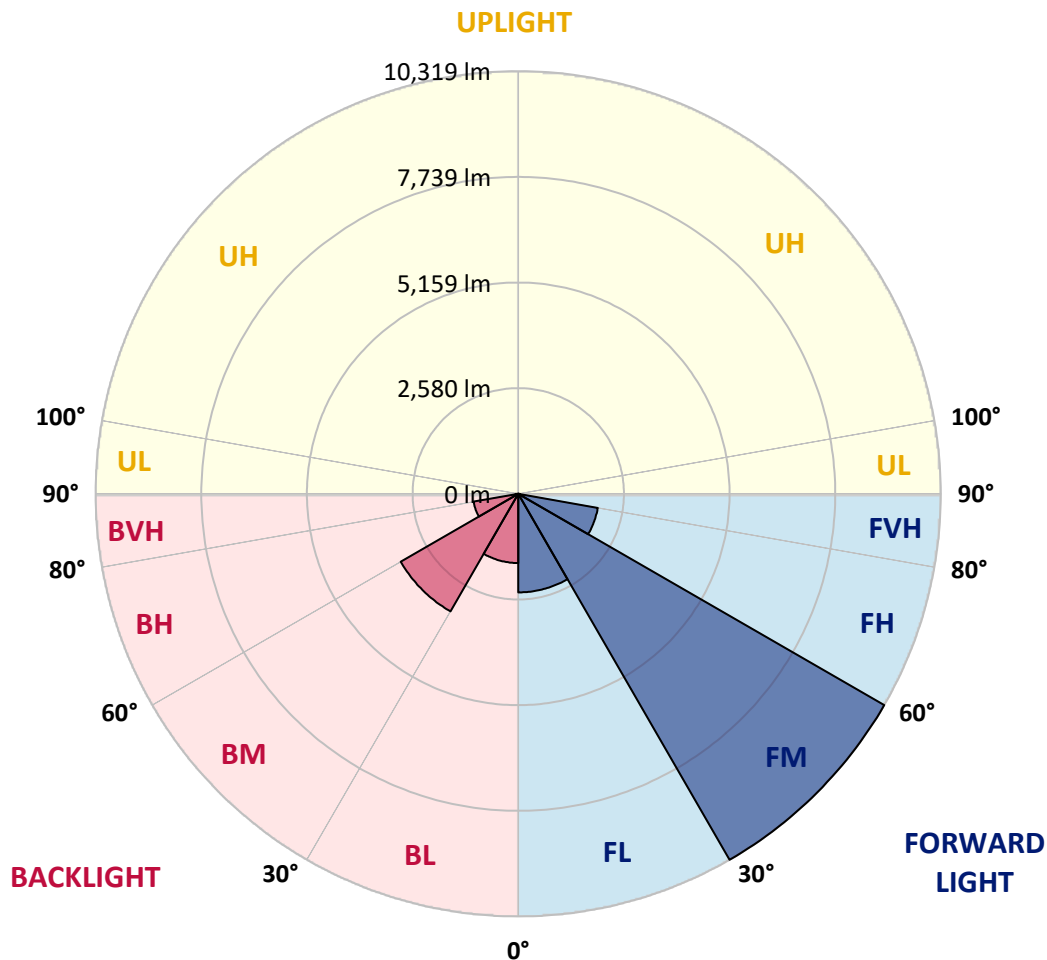
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2407.1	11.5			
FM (30°-60°)	10318.7	49.3			
FH (60°-80°)	1972.3	9.4			G2/5000
FVH (80°-90°)	44.2	0.2			G1/100
BL (0°-30°)	1690.0	8.1	B3/2500		
BM (30°-60°)	3314.0	15.8	B3/5000		
BH (60°-80°)	1107.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	66.5	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°	55°	65°	75°	79°	85°
0°	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8
2.5°	5092.2	5079.1	5110.4	5133.9	5162.6	5199.1	5217.2	5227.7	5318.9	5295.4	5365.8
5°	4982.8	4948.9	4972.3	4990.6	5040.0	5084.3	5133.9	5212.1	5295.4	5331.9	5418.0
7.5°	4886.3	4868.0	4862.8	4875.9	4943.7	5001.0	5087.0	5201.7	5337.2	5397.1	5446.6
10°	4727.3	4701.3	4740.4	4826.3	4844.6	4964.5	5063.5	5227.7	5345.0	5449.2	5595.2
12.5°	4657.0	4630.9	4638.7	4688.2	4815.9	4930.6	5047.9	5232.9	5480.5	5522.2	5717.6
15°	4769.1	4743.0	4750.8	4737.8	4860.2	4920.2	5105.2	5337.2	5574.3	5644.6	5853.1
17.5°	5024.4	5027.0	4993.2	4964.5	4935.8	5063.5	5191.2	5399.7	5610.8	5788.0	5944.4
20°	5511.7	5425.7	5358.0	5196.5	5152.1	5206.9	5368.4	5569.1	5759.3	5905.2	6082.4
22.5°	5887.0	5894.8	5798.4	5532.6	5436.1	5459.6	5597.8	5761.9	5970.4	6074.6	6277.9
25°	6431.7	6377.0	6272.7	6061.6	5845.3	5863.5	5965.2	6113.7	6171.1	6244.0	6465.5
27.5°	6929.4	6945.1	6739.2	6541.1	6272.7	6220.6	6403.0	6429.1	6332.6	6470.7	6546.3
30°	7435.0	7422.0	7286.4	7054.6	6791.3	6801.8	6882.5	6754.8	6621.9	6697.5	6749.6
32.5°	7958.8	7810.3	7805.1	7596.6	7395.9	7299.5	7200.5	7263.0	7057.2	7072.7	7023.3
35°	8378.4	8399.2	8279.4	8130.8	8031.8	7862.4	7591.4	7703.4	7664.4	7646.1	7432.4
37.5°	8683.3	8602.5	8662.5	8612.9	8519.1	8308.0	8026.6	8133.4	8151.6	8240.3	7992.7
40°	8933.4	8899.5	9058.6	9084.7	9019.5	8563.4	8057.9	8375.8	8649.4	8842.3	8547.8
42.5°	9053.4	9126.3	9293.1	9493.8	9347.8	8860.5	8219.4	8560.8	9170.6	9475.5	9074.2
45°	9214.9	9121.1	9368.7	9736.1	9738.7	9110.6	8375.8	8811.0	9577.1	10020.2	9433.8
47.5°	9050.8	9097.7	9353.0	9819.5	9939.4	9373.9	8798.0	9165.4	10025.4	10418.9	9767.4
50°	8683.3	8777.1	9243.6	9728.3	10090.6	9652.7	9282.7	9548.5	10439.8	10739.5	9822.1
52.5°	8300.2	8352.3	9082.0	9798.7	10158.3	10012.4	9931.5	10077.5	10945.3	11101.7	9889.9
55°	7257.8	7505.3	8547.8	9767.4	10489.3	10661.3	10598.7	10812.4	11518.7	11675.0	10259.9
56°	6775.7	6906.0	8227.3	9621.5	10554.4	10898.4	10867.1	10963.5	11823.5	11987.7	10317.3
57.5°	5884.4	5894.8	7015.5	8975.2	10309.5	10968.7	10937.5	11013.1	11763.6	11651.6	9814.3
60°	3682.3	3843.9	4774.3	6903.3	8766.7	10176.5	10353.7	9746.5	9918.6	9681.4	7635.7
62.5°	1907.6	1884.2	2501.8	4036.7	5819.3	7286.4	7450.7	7422.0	7156.2	6809.6	4988.0
65°	951.2	956.4	1308.3	1998.8	2981.3	3815.2	4273.9	4323.4	3617.1	3327.9	2366.2
67.5°	690.6	716.6	940.7	1222.2	1404.6	1571.4	1925.9	1889.4	1430.7	1360.3	1261.3
70°	536.8	560.3	763.5	932.9	847.0	847.0	922.5	953.8	1019.0	1047.6	1081.5
72.5°	390.9	409.1	583.7	643.7	555.1	596.8	690.6	763.5	831.3	841.8	880.9
75°	268.4	284.1	383.1	354.4	333.5	411.8	505.6	573.3	622.8	648.9	672.4
77.5°	174.6	179.8	218.9	185.0	213.7	265.8	328.3	385.7	435.2	456.1	461.3
80°	78.2	86.0	93.9	117.2	148.5	190.2	234.6	281.5	312.7	320.5	336.1
82.5°	44.3	44.3	57.4	83.4	109.4	138.1	169.4	203.3	239.8	247.6	245.0
85°	23.5	23.5	33.9	49.5	67.8	80.8	78.2	80.8	86.0	99.1	96.5
87.5°	7.8	7.8	10.4	10.4	13.0	15.6	13.0	18.2	23.5	23.5	23.5
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°	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8
2.5°	5345.0	5368.4	5337.2	5404.9	5404.9	5391.9	5326.7	5347.6	5363.2	5363.2	5376.3
5°	5446.6	5438.7	5459.6	5378.9	5329.3	5311.1	5204.3	5152.1	5107.8	5105.2	5066.1
7.5°	5503.9	5483.1	5475.2	5415.4	5196.5	5063.5	4834.2	4701.3	4672.6	4571.0	4610.0
10°	5595.2	5634.2	5595.2	5269.4	4964.5	4659.6	4435.4	4229.6	4148.8	4083.6	4044.5
12.5°	5782.8	5764.6	5537.8	5097.4	4670.0	4307.8	3974.2	3757.9	3677.1	3619.7	3614.5
15°	5941.7	5850.5	5503.9	4826.3	4211.3	3825.6	3552.0	3398.2	3361.8	3367.0	3390.4
17.5°	5996.5	5933.9	5326.7	4544.9	3869.9	3416.5	3288.8	3265.4	3299.2	3338.3	3348.8
20°	6082.4	5983.5	5253.7	4161.9	3447.8	3161.2	3153.3	3236.7	3299.2	3356.6	3364.4
22.5°	6262.3	6012.1	5016.6	3799.6	3158.5	3085.5	3161.2	3231.5	3327.9	3374.8	3333.1
25°	6314.4	5949.6	4683.0	3364.4	2976.0	3038.6	3119.4	3215.8	3283.6	3309.7	3327.9
27.5°	6358.7	5853.1	4232.2	3075.1	2918.8	3036.0	3119.4	3200.2	3236.7	3260.1	3281.0
30°	6483.8	5824.5	3841.3	2882.3	2882.3	2983.9	3090.8	3111.6	3161.2	3189.7	3226.2
32.5°	6546.3	5626.4	3439.9	2759.8	2845.8	3009.9	3017.8	3056.9	3059.5	3082.9	3043.8
35°	6710.5	5485.7	3067.3	2671.2	2861.4	2983.9	3023.0	2999.5	2871.8	2809.3	2822.3
37.5°	6830.4	5415.4	2798.8	2660.8	2864.0	3012.5	3033.4	2856.2	2723.3	2619.0	2645.1
40°	7153.5	5240.7	2595.6	2642.5	2887.5	3043.8	2986.5	2793.6	2553.9	2447.1	2428.8
42.5°	7401.1	5115.6	2467.9	2621.6	2905.7	3088.2	2963.1	2668.6	2423.6	2324.6	2350.7
45°	7687.7	5087.0	2400.1	2626.9	2937.0	3111.6	2934.4	2572.1	2311.6	2272.5	2264.6
47.5°	7789.4	4881.1	2327.2	2582.5	2929.2	3103.8	2838.0	2499.2	2269.9	2275.1	2295.9
50°	7620.0	4670.0	2272.5	2491.4	2877.1	3033.4	2686.8	2402.7	2246.4	2311.6	2348.1
52.5°	7403.7	4453.7	2160.4	2368.8	2770.2	2924.0	2616.4	2397.5	2222.9	2202.1	2209.9
55°	7468.8	4276.5	2004.0	2202.1	2598.2	2720.7	2538.3	2348.1	2165.6	2087.4	2113.5
56°	7257.8	4094.1	1902.4	2097.9	2481.0	2590.4	2499.2	2303.8	2118.7	2066.6	2066.6
57.5°	6661.0	3481.7	1769.5	1931.1	2233.4	2363.6	2423.6	2277.7	2066.6	1975.3	1977.9
60°	4912.4	2475.7	1587.1	1701.8	1850.3	1954.5	2233.4	2204.7	1936.3	1873.7	1850.3
62.5°	3028.2	1808.6	1456.8	1501.1	1576.6	1662.7	1949.3	1996.2	1798.1	1730.4	1714.8
65°	1696.5	1383.8	1357.7	1376.0	1412.5	1456.8	1618.3	1722.6	1587.1	1482.9	1477.6
67.5°	1240.5	1237.9	1258.7	1274.4	1290.0	1290.0	1329.1	1370.7	1352.5	1269.2	1261.3
70°	1102.4	1110.2	1125.8	1128.4	1133.6	1115.4	1084.1	1071.1	1092.0	1039.8	1029.4
72.5°	909.5	935.5	953.8	956.4	927.7	904.3	862.6	818.3	802.7	792.2	789.6
75°	698.5	716.6	724.4	721.8	711.5	677.6	628.1	583.7	555.1	523.8	539.4
77.5°	471.7	497.8	510.8	510.8	495.2	443.0	419.6	385.7	357.0	323.1	328.3
80°	330.9	349.2	370.0	367.4	341.4	315.3	281.5	250.2	226.7	200.7	198.1
82.5°	247.6	258.0	268.4	263.2	245.0	218.9	195.4	166.8	140.7	122.4	122.4
85°	88.6	96.5	117.2	122.4	132.9	132.9	112.0	93.9	75.6	62.6	62.6
87.5°	26.1	26.1	28.7	28.7	26.1	28.7	23.5	26.1	28.7	18.2	18.2
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)