

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: P529884

Luminaire Tested: **GALN-SA5A-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529884  
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-SA5A-740-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 615mA 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: 19992 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

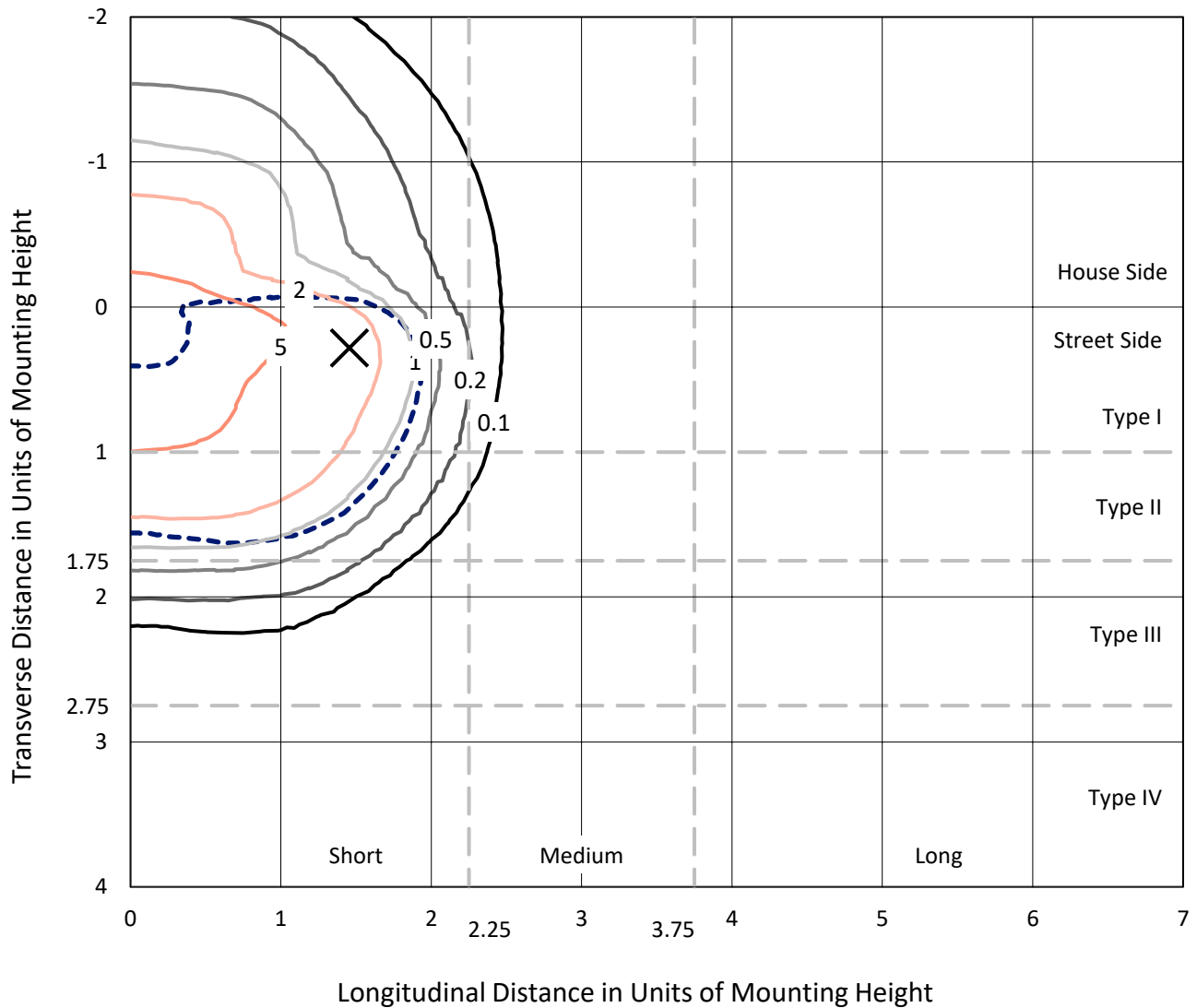
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

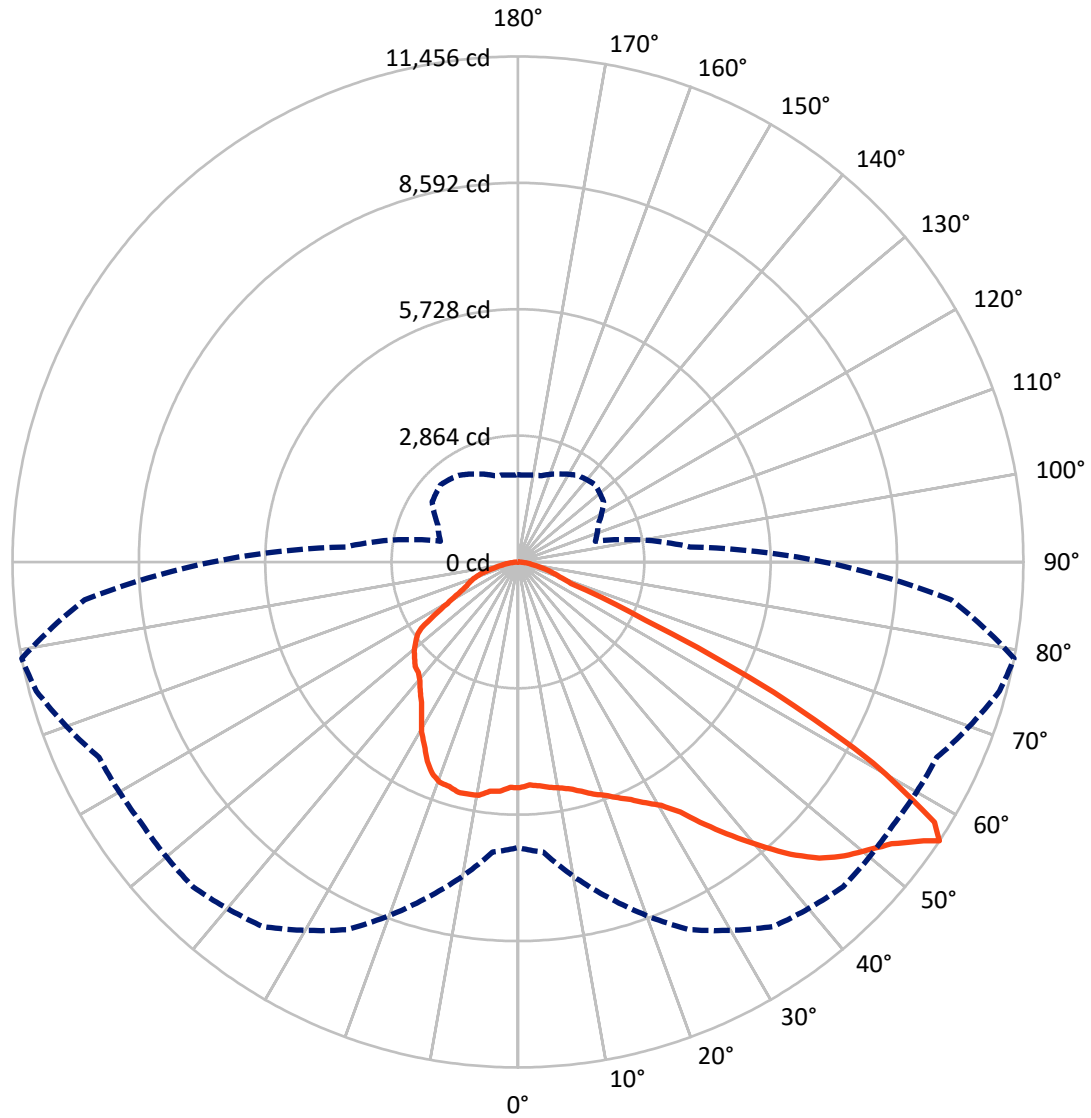
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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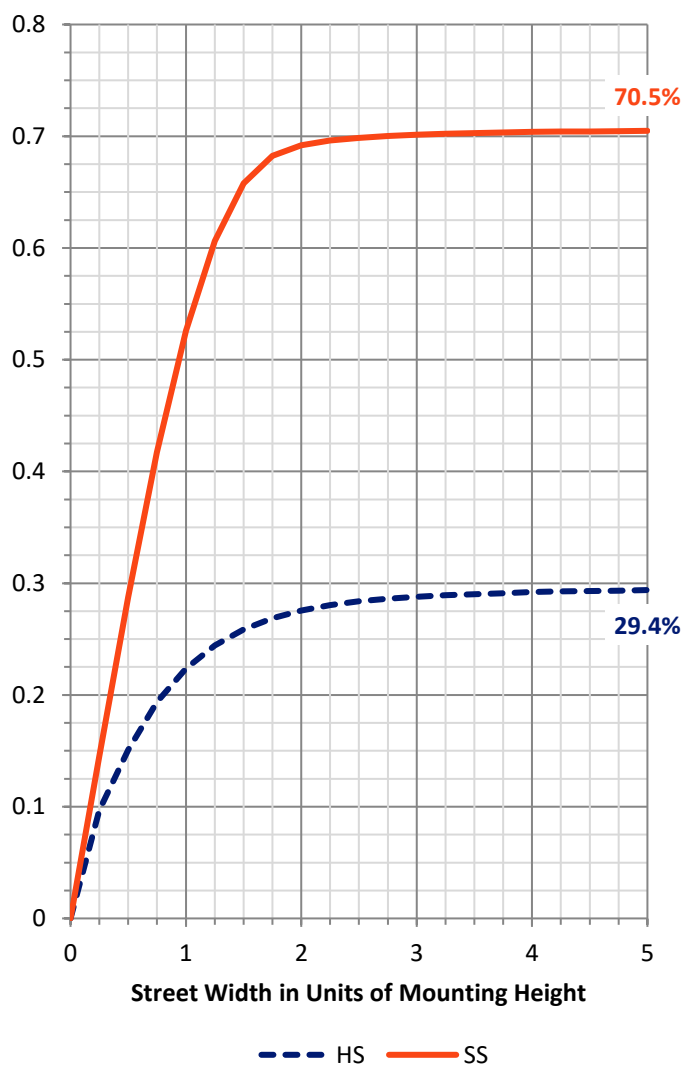
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5904.1	0.0	5904.1
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	14087.9	0.0	14087.9
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	19992.0	0.0	19992.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	465.1	2.3
10°-20°	1272.8	6.4
20°-30°	2177.4	10.9
30°-40°	3337.2	16.7
40°-50°	4510.2	22.6
50°-60°	5180.1	25.9
60°-70°	2361.3	11.8
70°-80°	582.2	2.9
80°-90°	105.8	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°	19992.0	100.0
0°-180°	19992.0	100.0

**Coefficient of Utilization**

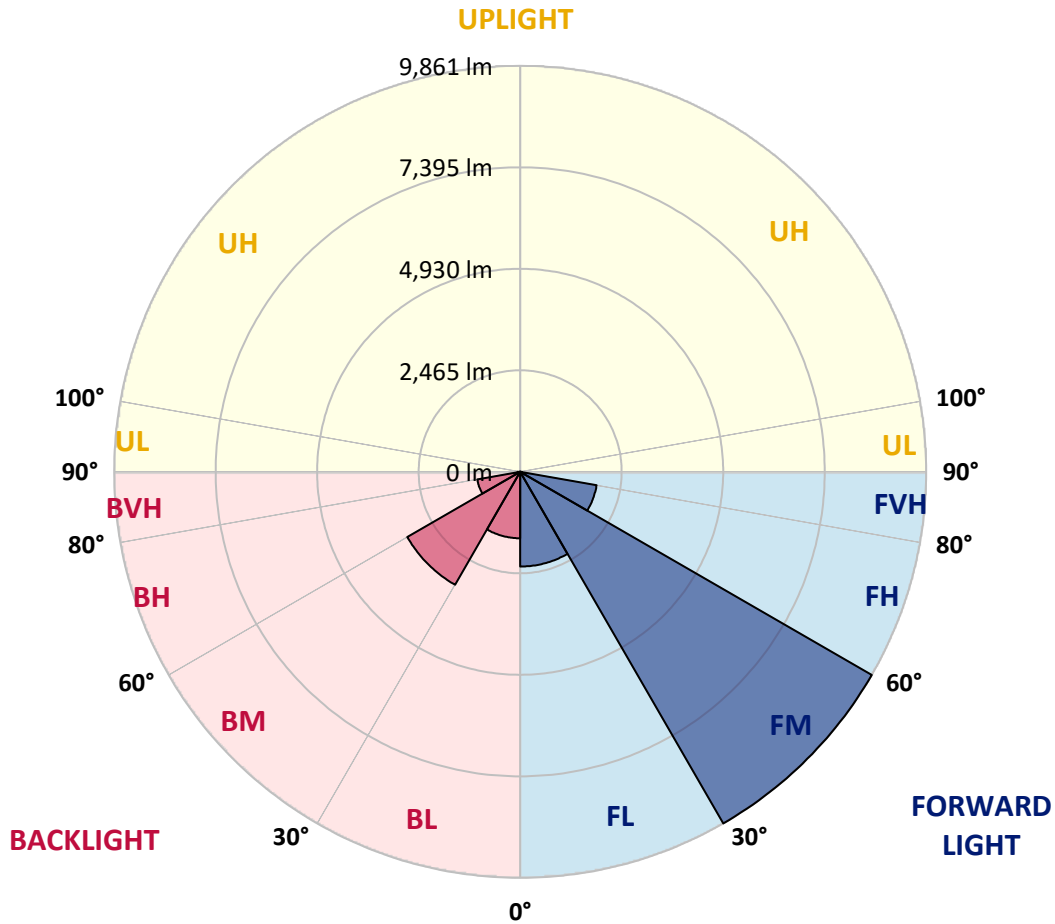


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2300.2	11.5			
FM (30°-60°)	9860.6	49.3			
FH (60°-80°)	1884.8	9.4			G2/5000
FVH (80°-90°)	42.2	0.2			G1/100
BL (0°-30°)	1615.0	8.1	B3/2500		
BM (30°-60°)	3166.9	15.8	B3/5000		
BH (60°-80°)	1058.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	63.6	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°	5115.2	5115.2	5115.2	5115.2	5115.2	5115.2	5115.2	5115.2	5115.2	5115.2	5115.2
2.5°	4866.1	4853.7	4883.6	4906.0	4933.4	4968.2	4985.7	4995.6	5082.8	5060.4	5127.6
5°	4761.5	4729.2	4751.6	4769.0	4816.3	4858.7	4906.0	4980.7	5060.4	5095.2	5177.4
7.5°	4669.4	4652.0	4647.0	4659.4	4724.2	4779.0	4861.1	4970.7	5100.2	5157.5	5204.8
10°	4517.5	4492.6	4529.9	4612.1	4629.5	4744.1	4838.7	4995.6	5107.7	5207.3	5346.8
12.5°	4450.2	4425.3	4432.8	4480.1	4602.2	4711.7	4823.8	5000.6	5237.2	5277.0	5463.8
15°	4557.3	4532.4	4539.9	4527.4	4644.5	4701.8	4878.6	5100.2	5326.8	5394.1	5593.3
17.5°	4801.4	4803.9	4771.5	4744.1	4716.7	4838.7	4960.8	5160.0	5361.7	5531.0	5680.5
20°	5267.1	5184.9	5120.1	4965.7	4923.4	4975.7	5130.1	5321.9	5503.7	5643.1	5812.5
22.5°	5625.7	5633.2	5541.0	5287.0	5194.9	5217.3	5349.3	5506.1	5705.4	5805.0	5999.2
25°	6146.2	6093.9	5994.3	5792.5	5585.8	5603.3	5700.4	5842.3	5897.1	5966.9	6178.5
27.5°	6621.8	6636.8	6440.0	6250.8	5994.3	5944.4	6118.8	6143.7	6051.5	6183.5	6255.7
30°	7104.9	7092.5	6963.0	6741.4	6489.8	6499.8	6577.0	6455.0	6328.0	6400.2	6450.0
32.5°	7605.5	7463.6	7458.6	7259.3	7067.6	6975.4	6880.8	6940.6	6743.8	6758.8	6711.5
35°	8006.4	8026.4	7911.8	7769.9	7675.2	7513.4	7254.4	7361.4	7324.1	7306.7	7102.5
37.5°	8297.8	8220.6	8277.9	8230.6	8140.9	7939.2	7670.3	7772.4	7789.8	7874.5	7637.9
40°	8536.9	8504.5	8656.4	8681.3	8619.1	8183.3	7700.1	8004.0	8265.4	8449.7	8168.3
42.5°	8651.4	8721.2	8880.6	9072.3	8932.9	8467.2	7854.5	8180.8	8763.5	9054.9	8671.4
45°	8805.8	8716.2	8952.8	9303.9	9306.4	8706.2	8004.0	8419.8	9152.0	9575.4	9015.0
47.5°	8649.0	8693.8	8937.8	9383.6	9498.2	8957.8	8407.4	8758.5	9580.3	9956.4	9333.8
50°	8297.8	8387.5	8833.2	9296.4	9642.6	9224.2	8870.6	9124.6	9976.3	10262.7	9386.1
52.5°	7931.7	7981.5	8678.8	9363.7	9707.4	9567.9	9490.7	9630.1	10459.4	10608.9	9450.8
55°	6935.6	7172.2	8168.3	9333.8	10023.6	10188.0	10128.2	10332.4	11007.3	11156.7	9804.5
56°	6474.9	6599.4	7862.0	9194.3	10085.9	10414.6	10384.7	10476.9	11298.7	11455.6	9859.3
57.5°	5623.2	5633.2	6704.0	8576.7	9851.8	10481.8	10452.0	10524.2	11241.4	11134.3	9378.6
60°	3518.9	3673.3	4562.3	6596.9	8377.5	9724.8	9894.1	9313.9	9478.2	9251.6	7296.7
62.5°	1822.9	1800.5	2390.7	3857.5	5560.9	6963.0	7119.9	7092.5	6838.5	6507.3	4766.5
65°	909.0	914.0	1250.2	1910.1	2849.0	3645.9	4084.2	4131.5	3456.6	3180.2	2261.2
67.5°	659.9	684.8	899.0	1168.0	1342.3	1501.7	1840.4	1805.5	1367.2	1300.0	1205.3
70°	513.0	535.4	729.7	891.5	809.4	809.4	881.6	911.5	973.7	1001.1	1033.5
72.5°	373.6	391.0	557.8	615.1	530.4	570.3	659.9	729.7	794.4	804.4	841.7
75°	256.5	271.4	366.1	338.7	318.8	393.5	483.1	547.9	595.2	620.1	642.5
77.5°	166.9	171.8	209.2	176.8	204.2	254.0	313.8	368.6	415.9	435.8	440.8
80°	74.7	82.2	89.7	112.1	141.9	181.8	224.1	269.0	298.8	306.3	321.3
82.5°	42.3	42.3	54.8	79.7	104.6	132.0	161.9	194.2	229.1	236.6	234.1
85°	22.4	22.4	32.4	47.3	64.7	77.2	74.7	77.2	82.2	94.6	92.1
87.5°	7.5	7.5	10.0	10.0	12.5	14.9	12.5	17.4	22.4	22.4	22.4
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°	5115.2	5115.2	5115.2	5115.2	5115.2	5115.2	5115.2	5115.2	5115.2	5115.2	5115.2
2.5°	5107.7	5130.1	5100.2	5165.0	5165.0	5152.5	5090.3	5110.2	5125.1	5125.1	5137.6
5°	5204.8	5197.3	5217.3	5140.1	5092.7	5075.3	4973.2	4923.4	4881.1	4878.6	4841.2
7.5°	5259.6	5239.7	5232.2	5174.9	4965.7	4838.7	4619.6	4492.6	4465.2	4368.1	4405.4
10°	5346.8	5384.1	5346.8	5035.5	4744.1	4452.7	4238.6	4041.8	3964.6	3902.4	3865.0
12.5°	5526.1	5508.6	5292.0	4871.1	4462.7	4116.5	3797.8	3591.1	3513.9	3459.1	3454.1
15°	5678.0	5590.8	5259.6	4612.1	4024.4	3655.8	3394.3	3247.4	3212.5	3217.5	3239.9
17.5°	5730.3	5670.5	5090.3	4343.2	3698.2	3264.8	3142.8	3120.4	3152.8	3190.1	3200.1
20°	5812.5	5717.8	5020.5	3977.1	3294.7	3020.8	3013.3	3093.0	3152.8	3207.6	3215.0
22.5°	5984.3	5745.2	4793.9	3630.9	3018.3	2948.6	3020.8	3088.0	3180.2	3225.0	3185.1
25°	6034.1	5685.4	4475.1	3215.0	2844.0	2903.7	2980.9	3073.1	3137.8	3162.7	3180.2
27.5°	6076.4	5593.3	4044.3	2938.6	2789.2	2901.2	2980.9	3058.1	3093.0	3115.4	3135.3
30°	6196.0	5565.9	3670.8	2754.3	2754.3	2851.4	2953.5	2973.5	3020.8	3048.2	3083.0
32.5°	6255.7	5376.6	3287.3	2637.3	2719.5	2876.3	2883.8	2921.2	2923.7	2946.1	2908.7
35°	6412.6	5242.2	2931.1	2552.6	2734.4	2851.4	2888.8	2866.4	2744.4	2684.6	2697.0
37.5°	6527.2	5174.9	2674.6	2542.6	2736.9	2878.8	2898.8	2729.4	2602.4	2502.8	2527.7
40°	6836.0	5008.1	2480.4	2525.2	2759.3	2908.7	2853.9	2669.6	2440.5	2338.4	2321.0
42.5°	7072.6	4888.5	2358.4	2505.3	2776.7	2951.1	2831.5	2550.1	2316.0	2221.4	2246.3
45°	7346.5	4861.1	2293.6	2510.3	2806.6	2973.5	2804.1	2458.0	2208.9	2171.6	2164.1
47.5°	7443.6	4664.4	2223.9	2467.9	2799.1	2966.0	2712.0	2388.2	2169.1	2174.1	2194.0
50°	7281.8	4462.7	2171.6	2380.8	2749.3	2898.8	2567.5	2296.1	2146.7	2208.9	2243.8
52.5°	7075.1	4256.0	2064.5	2263.7	2647.2	2794.2	2500.3	2291.1	2124.3	2104.3	2111.8
55°	7137.3	4086.7	1915.1	2104.3	2482.9	2599.9	2425.6	2243.8	2069.5	1994.8	2019.7
56°	6935.6	3912.3	1817.9	2004.7	2370.8	2475.4	2388.2	2201.5	2024.6	1974.8	1974.8
57.5°	6365.3	3327.1	1690.9	1845.3	2134.2	2258.7	2316.0	2176.6	1974.8	1887.7	1890.2
60°	4694.3	2365.8	1516.6	1626.2	1768.1	1867.8	2134.2	2106.8	1850.3	1790.6	1768.1
62.5°	2893.8	1728.3	1392.1	1434.4	1506.7	1588.8	1862.8	1907.6	1718.3	1653.6	1638.6
65°	1621.2	1322.4	1297.5	1314.9	1349.8	1392.1	1546.5	1646.1	1516.6	1417.0	1412.0
67.5°	1185.4	1182.9	1202.8	1217.8	1232.7	1232.7	1270.1	1309.9	1292.5	1212.8	1205.3
70°	1053.4	1060.9	1075.8	1078.3	1083.3	1065.9	1036.0	1023.5	1043.5	993.6	983.7
72.5°	869.1	894.0	911.5	914.0	886.6	864.1	824.3	782.0	767.0	757.1	754.6
75°	667.4	684.8	692.3	689.8	679.9	647.5	600.2	557.8	530.4	500.6	515.5
77.5°	450.8	475.7	488.1	488.1	473.2	423.4	400.9	368.6	341.2	308.8	313.8
80°	316.3	333.7	353.6	351.1	326.2	301.3	269.0	239.1	216.7	191.8	189.3
82.5°	236.6	246.5	256.5	251.5	234.1	209.2	186.8	159.4	134.5	117.0	117.0
85°	84.7	92.1	112.1	117.0	127.0	127.0	107.1	89.7	72.2	59.8	59.8
87.5°	24.9	24.9	27.4	27.4	24.9	27.4	22.4	24.9	27.4	17.4	17.4
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)