

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: P530040

Luminaire Tested: **GALN-SA5B-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530040  
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-727-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 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: 20803 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

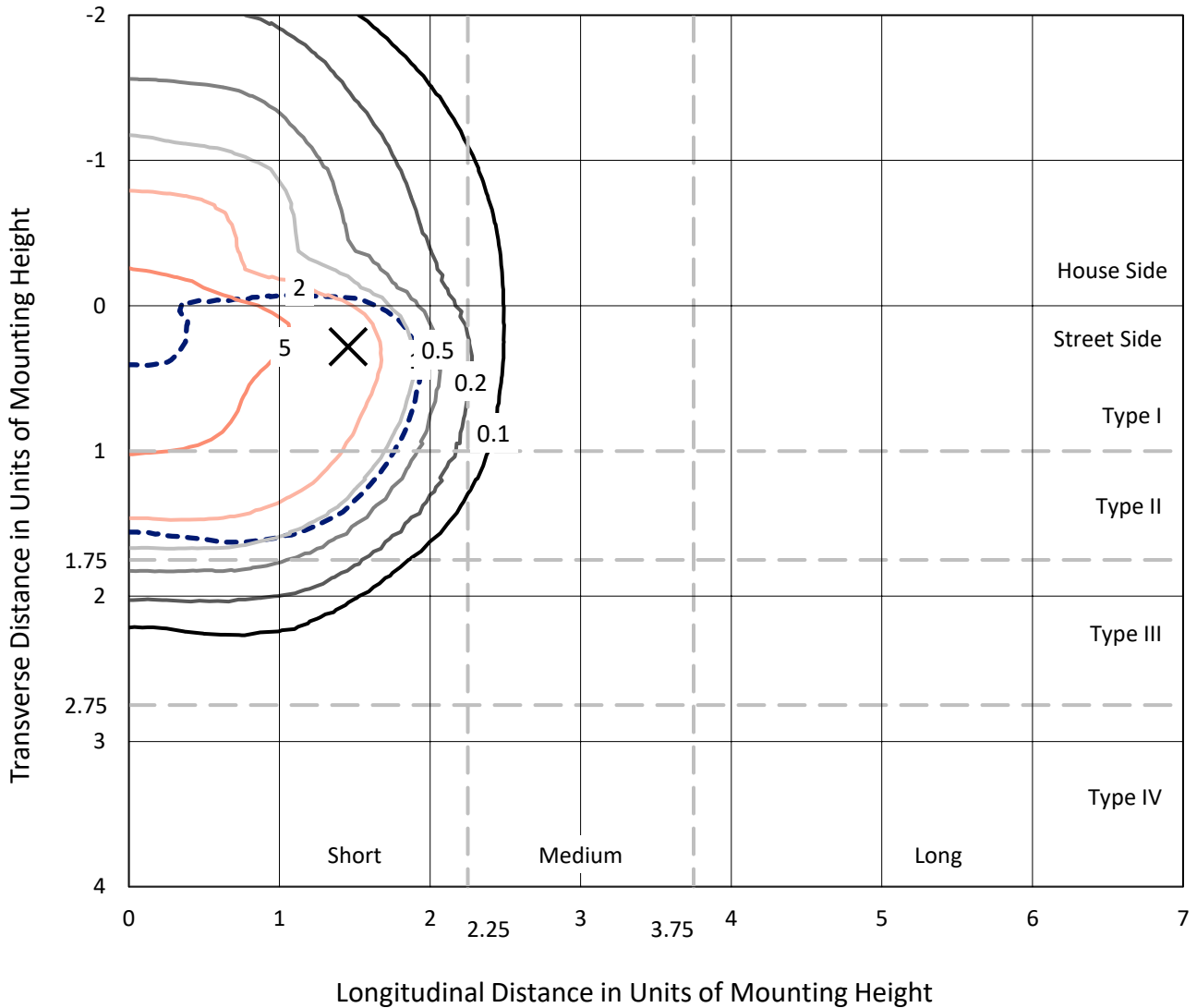
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

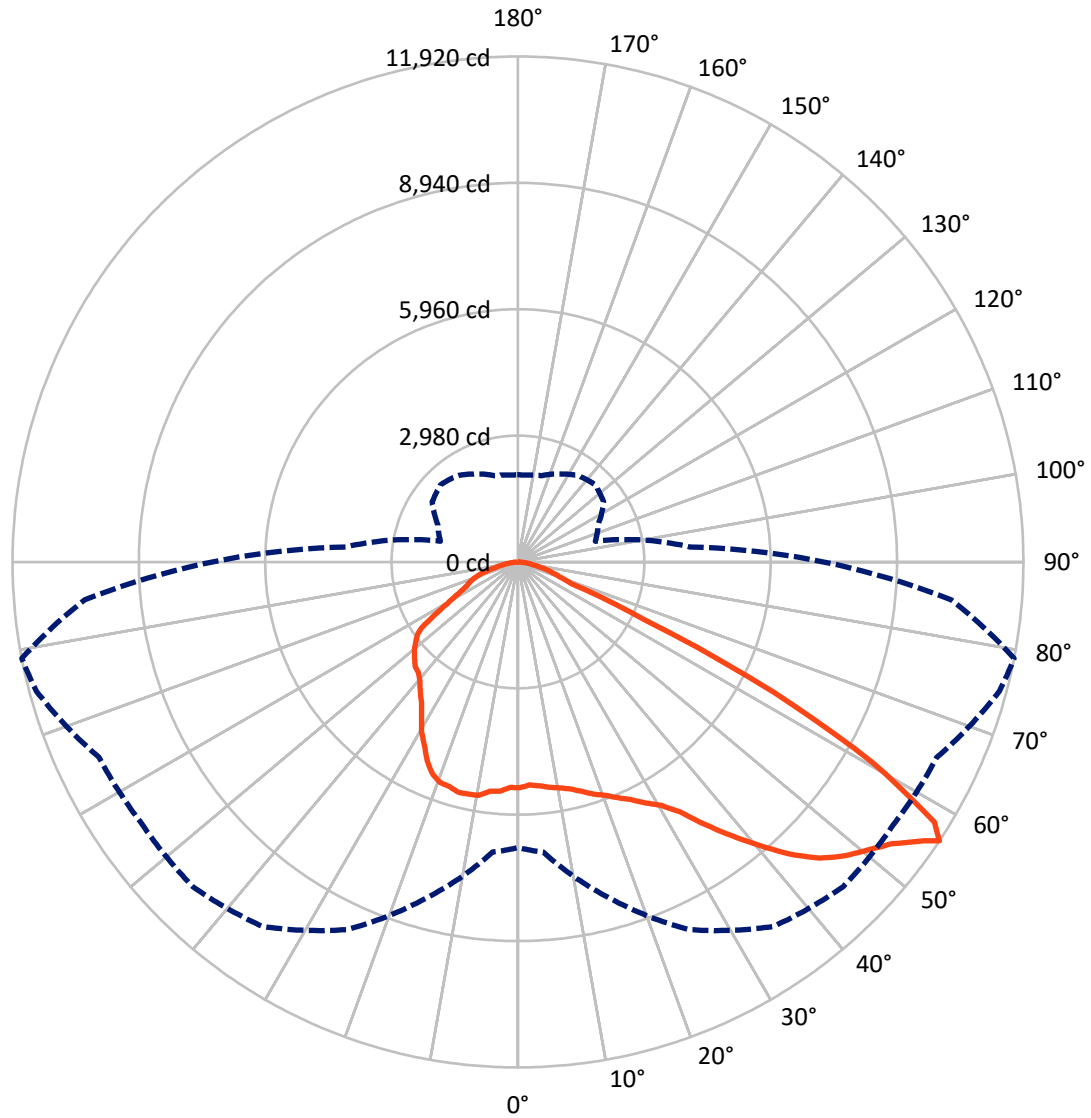
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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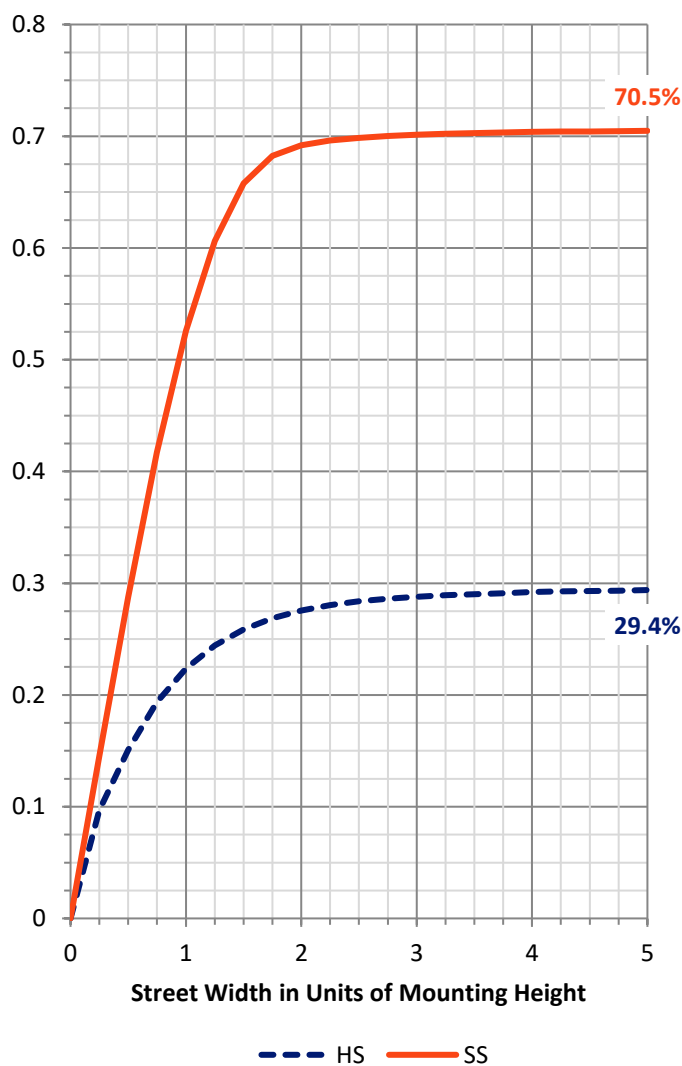
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6143.6	0.0	6143.6
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	14659.4	0.0	14659.4
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	20803.0	0.0	20803.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	483.9	2.3
10°-20°	1324.4	6.4
20°-30°	2265.8	10.9
30°-40°	3472.6	16.7
40°-50°	4693.2	22.6
50°-60°	5390.3	25.9
60°-70°	2457.0	11.8
70°-80°	605.8	2.9
80°-90°	110.1	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°	20803.0	100.0
0°-180°	20803.0	100.0

**Coefficient of Utilization**



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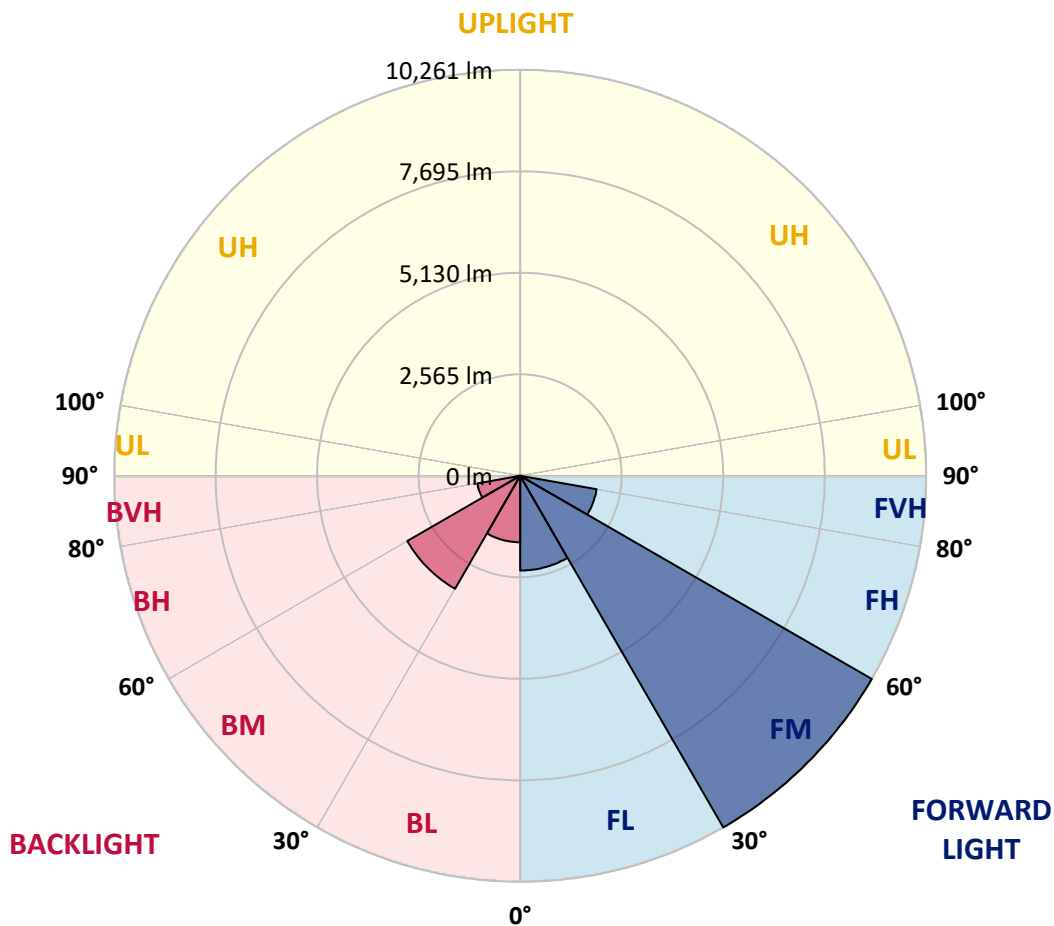
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2393.6	11.5			
FM (30°-60°)	10260.7	49.3			
FH (60°-80°)	1961.2	9.4			G2/5000
FVH (80°-90°)	44.0	0.2			G1/100
BL (0°-30°)	1680.5	8.1	B3/2500		
BM (30°-60°)	3295.3	15.8	B3/5000		
BH (60°-80°)	1101.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	66.1	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°	5322.7	5322.7	5322.7	5322.7	5322.7	5322.7	5322.7	5322.7	5322.7	5322.7	5322.7
2.5°	5063.5	5050.6	5081.7	5105.0	5133.5	5169.8	5187.9	5198.3	5289.0	5265.7	5335.6
5°	4954.7	4921.0	4944.3	4962.5	5011.7	5055.8	5105.0	5182.7	5265.7	5301.9	5387.4
7.5°	4858.8	4840.7	4835.5	4848.4	4915.8	4972.8	5058.3	5172.4	5307.1	5366.7	5416.0
10°	4700.7	4674.8	4713.7	4799.2	4817.3	4936.6	5035.0	5198.3	5314.9	5418.5	5563.7
12.5°	4630.8	4604.9	4612.6	4661.9	4788.8	4902.9	5019.5	5203.5	5449.6	5491.1	5685.5
15°	4742.2	4716.3	4724.1	4711.1	4832.9	4892.5	5076.5	5307.1	5542.9	5612.9	5820.2
17.5°	4996.2	4998.7	4965.1	4936.6	4908.0	5035.0	5162.0	5369.3	5579.2	5755.4	5910.9
20°	5480.7	5395.2	5327.8	5167.2	5123.1	5177.5	5338.2	5537.7	5726.9	5872.0	6048.2
22.5°	5853.9	5861.7	5765.8	5501.5	5405.6	5428.9	5566.3	5729.5	5936.8	6040.5	6242.6
25°	6395.5	6341.1	6237.4	6027.5	5812.4	5830.6	5931.6	6079.3	6136.4	6208.9	6429.2
27.5°	6890.4	6906.0	6701.3	6504.3	6237.4	6185.6	6367.0	6392.9	6297.0	6434.4	6509.5
30°	7393.2	7380.2	7245.5	7014.8	6753.1	6763.5	6843.8	6716.8	6584.7	6659.8	6711.6
32.5°	7914.0	7766.3	7761.1	7553.8	7354.3	7258.4	7159.9	7222.1	7017.4	7033.0	6983.7
35°	8331.2	8352.0	8232.8	8085.1	7986.6	7818.1	7548.6	7660.1	7621.2	7603.1	7390.6
37.5°	8634.4	8554.1	8613.7	8564.5	8471.2	8261.3	7981.4	8087.7	8105.8	8193.9	7947.7
40°	8883.2	8849.5	9007.6	9033.5	8968.7	8515.2	8012.5	8328.6	8600.7	8792.5	8499.7
42.5°	9002.4	9075.0	9240.8	9440.3	9295.2	8810.6	8173.2	8512.6	9119.0	9422.2	9023.1
45°	9163.1	9069.8	9316.0	9681.3	9683.9	9059.4	8328.6	8761.4	9523.3	9963.8	9380.7
47.5°	8999.8	9046.5	9300.4	9764.3	9883.5	9321.1	8748.4	9113.8	9969.0	10360.3	9712.4
50°	8634.4	8727.7	9191.6	9673.6	10033.8	9598.4	9230.4	9494.8	10381.0	10679.0	9766.9
52.5°	8253.5	8305.3	9030.9	9743.5	10101.1	9956.0	9875.7	10020.8	10883.7	11039.2	9834.2
55°	7217.0	7463.1	8499.7	9712.4	10430.2	10601.3	10539.1	10751.6	11453.8	11609.3	10202.2
56°	6737.5	6867.1	8180.9	9567.3	10495.0	10837.1	10806.0	10901.9	11757.0	11920.3	10259.2
57.5°	5851.3	5861.7	6976.0	8924.7	10251.4	10907.1	10876.0	10951.1	11697.4	11586.0	9759.1
60°	3661.6	3822.3	4747.4	6864.5	8717.4	10119.3	10295.5	9691.7	9862.7	9626.9	7592.7
62.5°	1896.9	1873.6	2487.7	4014.0	5786.5	7245.5	7408.7	7380.2	7115.9	6771.2	4959.9
65°	945.8	951.0	1300.9	1987.6	2964.5	3793.8	4249.8	4299.1	3596.8	3309.2	2353.0
67.5°	686.7	712.6	935.5	1215.4	1396.7	1562.6	1915.0	1878.7	1422.7	1352.7	1254.2
70°	533.8	557.1	759.3	927.7	842.2	842.2	917.3	948.4	1013.2	1041.7	1075.4
72.5°	388.7	406.8	580.5	640.1	552.0	593.4	686.7	759.3	826.6	837.0	875.9
75°	266.9	282.5	380.9	352.4	331.7	409.4	502.7	570.1	619.3	645.2	668.6
77.5°	173.6	178.8	217.7	184.0	212.5	264.3	326.5	383.5	432.8	453.5	458.7
80°	77.7	85.5	93.3	116.6	147.7	189.2	233.2	279.9	311.0	318.7	334.3
82.5°	44.1	44.1	57.0	82.9	108.8	137.3	168.4	202.1	238.4	246.2	243.6
85°	23.3	23.3	33.7	49.2	67.4	80.3	77.7	80.3	85.5	98.5	95.9
87.5°	7.8	7.8	10.4	10.4	13.0	15.5	13.0	18.1	23.3	23.3	23.3
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°	5322.7	5322.7	5322.7	5322.7	5322.7	5322.7	5322.7	5322.7	5322.7	5322.7	5322.7
2.5°	5314.9	5338.2	5307.1	5374.5	5374.5	5361.5	5296.8	5317.5	5333.0	5333.0	5346.0
5°	5416.0	5408.2	5428.9	5348.6	5299.3	5281.2	5175.0	5123.1	5079.1	5076.5	5037.6
7.5°	5473.0	5452.2	5444.5	5384.9	5167.2	5035.0	4807.0	4674.8	4646.3	4545.3	4584.1
10°	5563.7	5602.5	5563.7	5239.7	4936.6	4633.4	4410.5	4205.8	4125.5	4060.7	4021.8
12.5°	5750.2	5732.1	5506.7	5068.7	4643.7	4283.5	3951.8	3736.7	3656.4	3599.4	3594.2
15°	5908.3	5817.6	5473.0	4799.2	4187.6	3804.1	3532.0	3379.1	3342.9	3348.0	3371.4
17.5°	5962.7	5900.5	5296.8	4519.3	3848.2	3397.3	3270.3	3247.0	3280.7	3319.5	3329.9
20°	6048.2	5949.8	5224.2	4138.4	3428.4	3143.3	3135.6	3218.5	3280.7	3337.7	3345.5
22.5°	6227.1	5978.3	4988.4	3778.2	3140.7	3068.2	3143.3	3213.3	3309.2	3355.8	3314.4
25°	6278.9	5916.1	4656.7	3345.5	2959.3	3021.5	3101.9	3197.7	3265.1	3291.0	3309.2
27.5°	6322.9	5820.2	4208.4	3057.8	2902.3	3018.9	3101.9	3182.2	3218.5	3241.8	3262.5
30°	6447.3	5791.7	3819.7	2866.0	2866.0	2967.1	3073.4	3094.1	3143.3	3171.8	3208.1
32.5°	6509.5	5594.8	3420.6	2744.3	2829.8	2993.0	3000.8	3039.7	3042.3	3065.6	3026.7
35°	6672.8	5454.8	3050.0	2656.1	2845.3	2967.1	3006.0	2982.7	2855.7	2793.5	2806.4
37.5°	6792.0	5384.9	2783.1	2645.8	2847.9	2995.6	3016.3	2840.1	2708.0	2604.3	2630.2
40°	7113.3	5211.2	2581.0	2627.6	2871.2	3026.7	2969.7	2777.9	2539.5	2433.3	2415.2
42.5°	7359.5	5086.8	2454.0	2606.9	2889.4	3070.8	2946.4	2653.6	2410.0	2311.5	2337.4
45°	7644.5	5058.3	2386.6	2612.1	2920.5	3094.1	2917.9	2557.7	2298.5	2259.7	2251.9
47.5°	7745.6	4853.6	2314.1	2568.0	2912.7	3086.3	2822.0	2485.1	2257.1	2262.3	2283.0
50°	7577.2	4643.7	2259.7	2477.3	2860.9	3016.3	2671.7	2389.2	2233.8	2298.5	2334.8
52.5°	7362.1	4428.6	2148.2	2355.6	2754.6	2907.5	2601.7	2384.1	2210.4	2189.7	2197.5
55°	7426.9	4252.4	1992.8	2189.7	2583.6	2705.4	2524.0	2334.8	2153.4	2075.7	2101.6
56°	7217.0	4071.0	1891.7	2086.0	2467.0	2575.8	2485.1	2290.8	2106.8	2055.0	2055.0
57.5°	6623.5	3462.1	1759.5	1920.2	2220.8	2350.4	2410.0	2264.9	2055.0	1964.3	1966.8
60°	4884.7	2461.8	1578.1	1692.2	1839.9	1943.5	2220.8	2192.3	1925.4	1863.2	1839.9
62.5°	3011.2	1798.4	1448.6	1492.6	1567.8	1653.3	1938.3	1985.0	1788.0	1720.7	1705.1
65°	1687.0	1376.0	1350.1	1368.2	1404.5	1448.6	1609.2	1712.9	1578.1	1474.5	1469.3
67.5°	1233.5	1230.9	1251.6	1267.2	1282.7	1282.7	1321.6	1363.1	1344.9	1262.0	1254.2
70°	1096.1	1103.9	1119.5	1122.1	1127.2	1109.1	1078.0	1065.1	1085.8	1034.0	1023.6
72.5°	904.4	930.3	948.4	951.0	922.5	899.2	857.7	813.7	798.1	787.8	785.2
75°	694.5	712.6	720.4	717.8	707.4	673.8	624.5	580.5	552.0	520.9	536.4
77.5°	469.0	495.0	507.9	507.9	492.4	440.5	417.2	383.5	355.0	321.3	326.5
80°	329.1	347.2	368.0	365.4	339.5	313.6	279.9	248.8	225.4	199.5	196.9
82.5°	246.2	256.5	266.9	261.7	243.6	217.7	194.4	165.8	139.9	121.8	121.8
85°	88.1	95.9	116.6	121.8	132.2	132.2	111.4	93.3	75.1	62.2	62.2
87.5°	25.9	25.9	28.5	28.5	25.9	28.5	23.3	25.9	28.5	18.1	18.1
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)