

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: P532612

Luminaire Tested: **GALN-SA8A-727-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532612  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-727-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26331 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

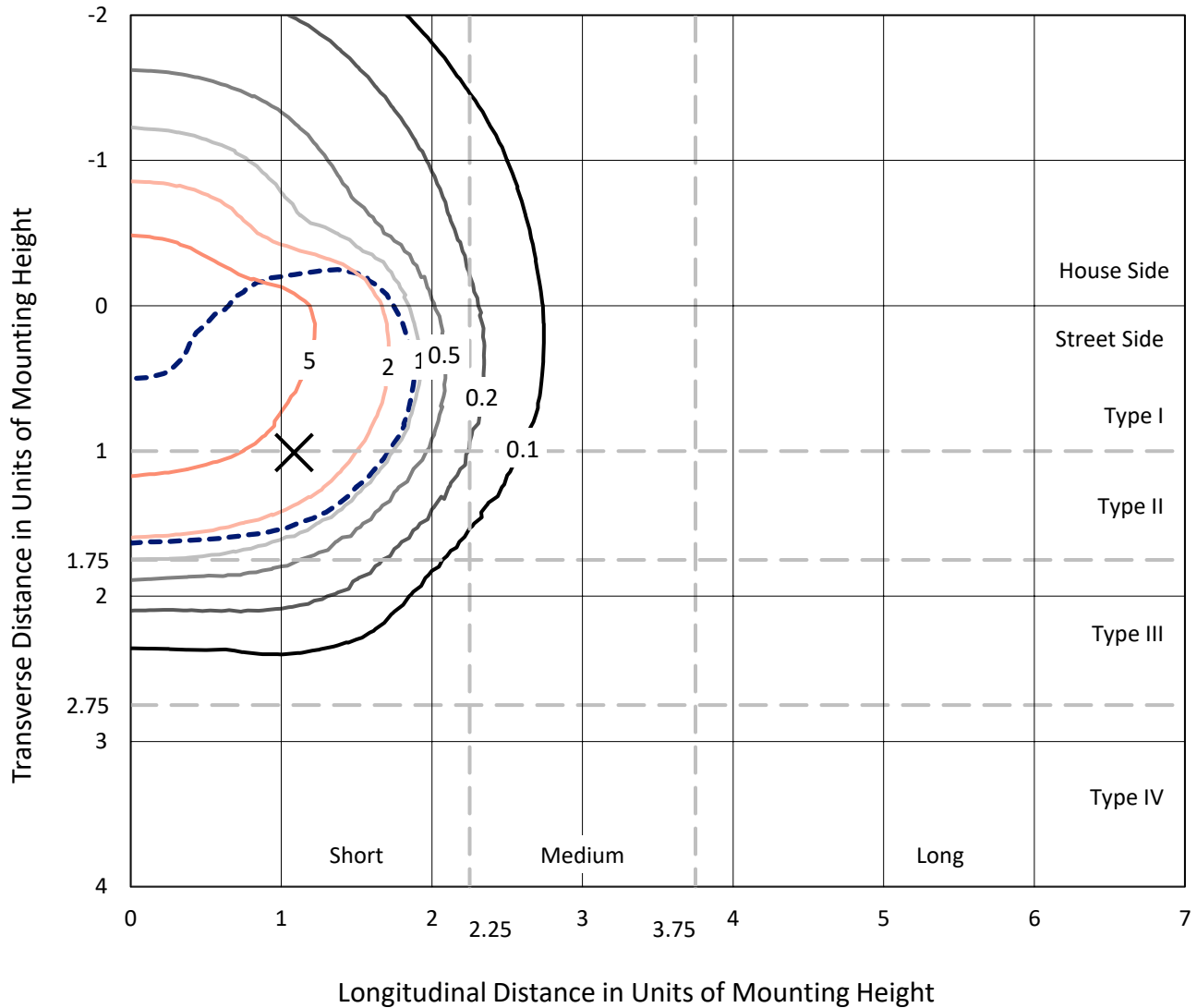
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

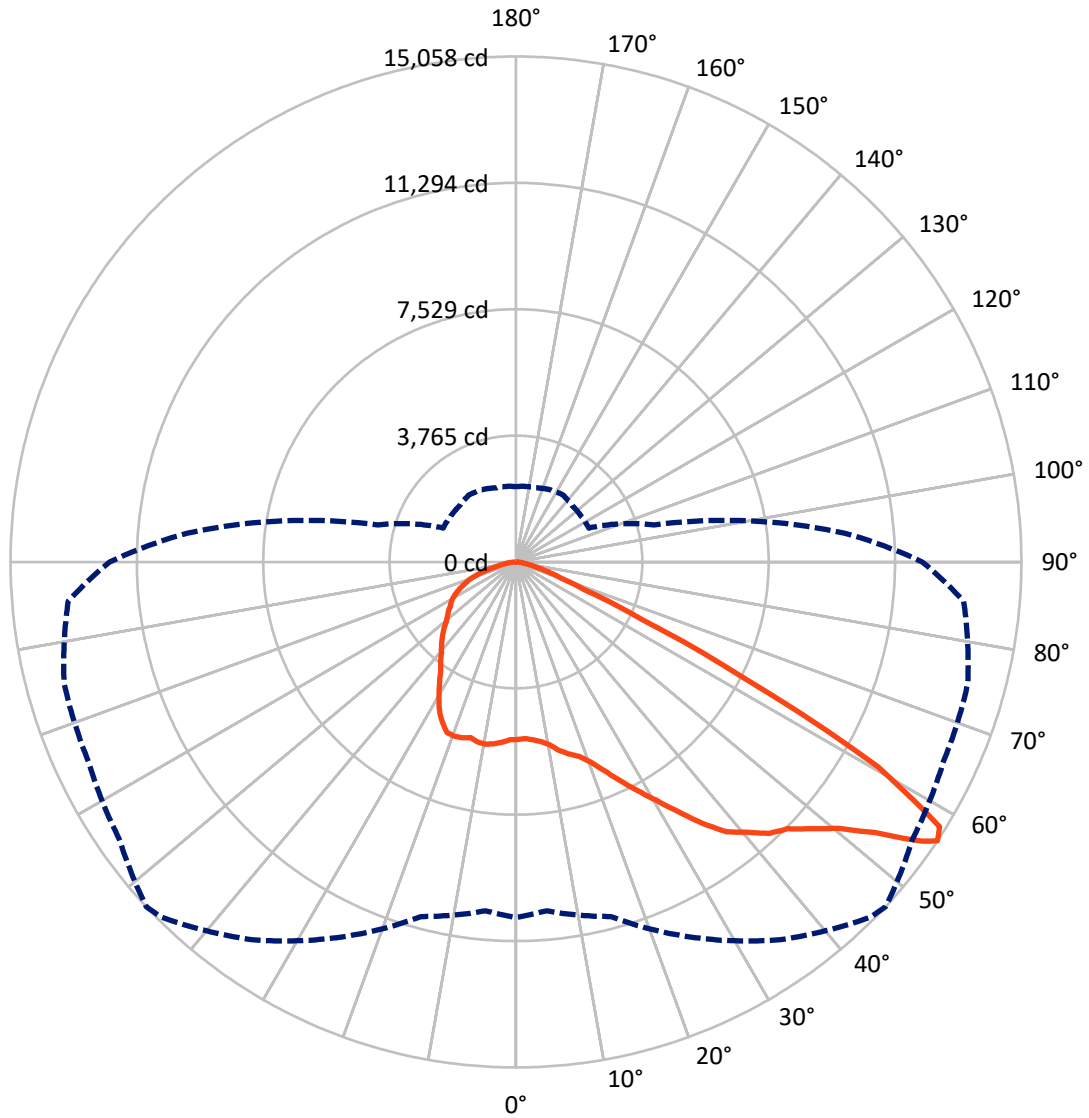
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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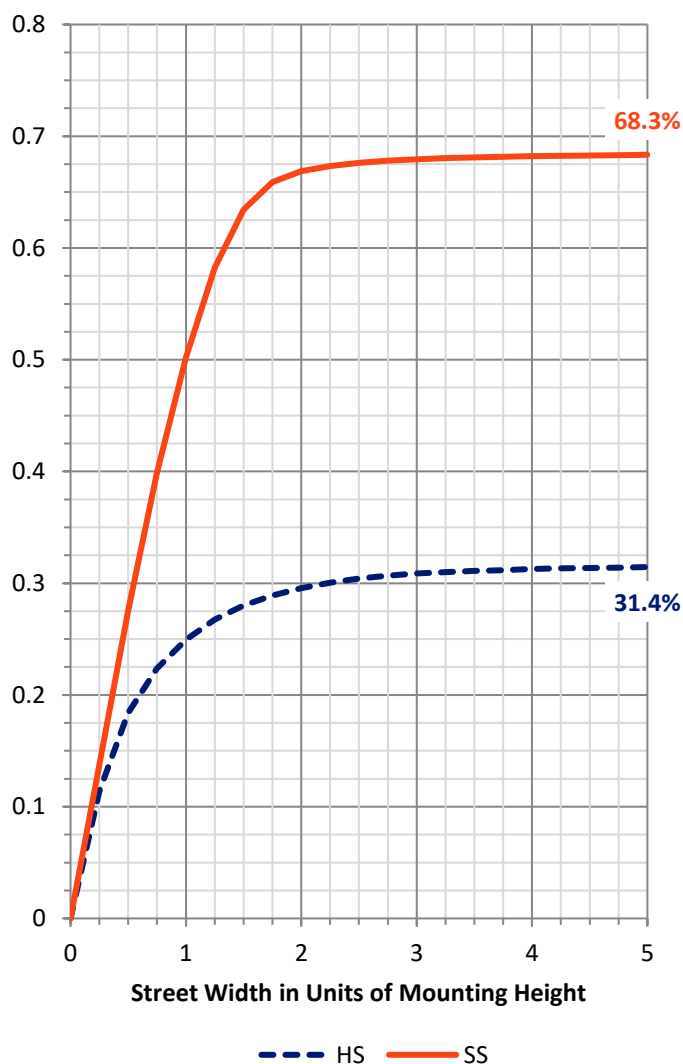
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8344.0	0.0	8344.0
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	17987.0	0.0	17987.0
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	26331.0	0.0	26331.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	515.4	2.0
10°-20°	1625.7	6.2
20°-30°	2873.8	10.9
30°-40°	4316.3	16.4
40°-50°	5923.8	22.5
50°-60°	7057.4	26.8
60°-70°	3020.1	11.5
70°-80°	854.7	3.2
80°-90°	143.8	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°	26331.0	100.0
0°-180°	26331.0	100.0

**Coefficient of Utilization**



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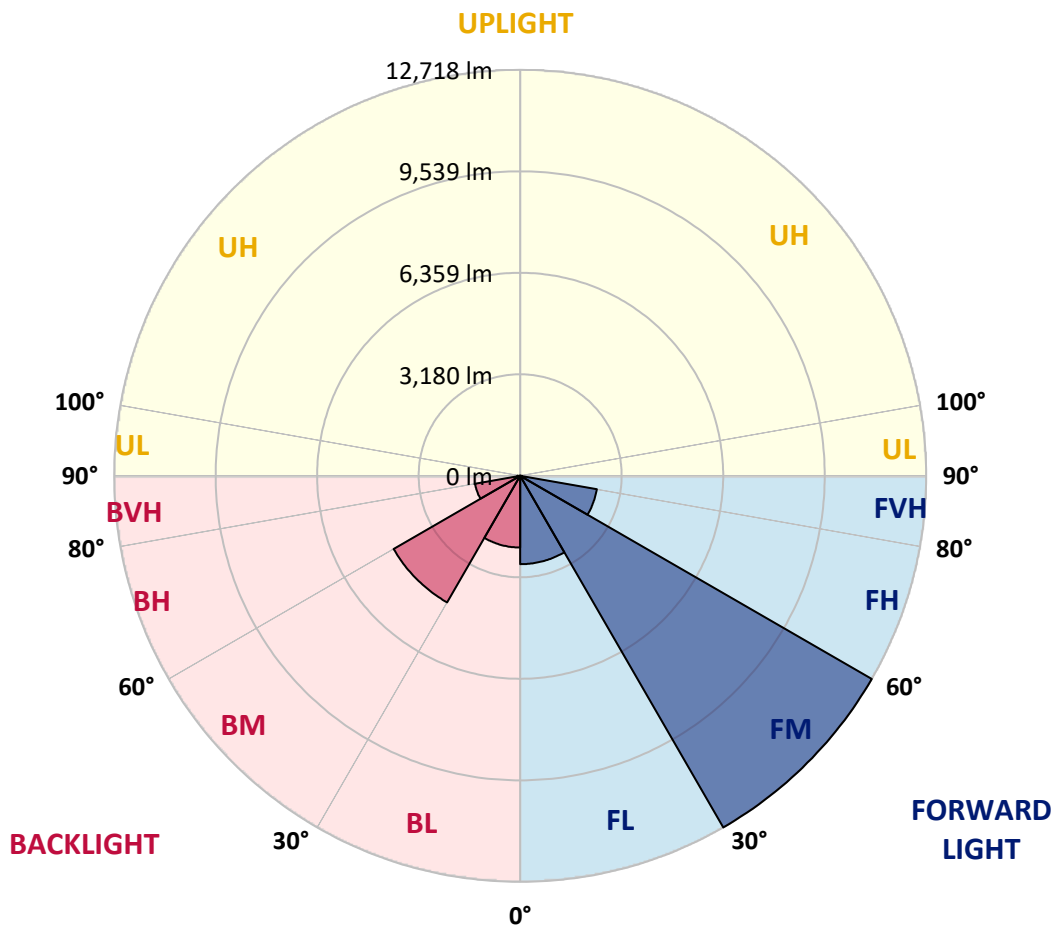
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2768.3	10.5			
FM (30°-60°)	12718.5	48.3			
FH (60°-80°)	2439.2	9.3			G2/5000
FVH (80°-90°)	61.0	0.2			G1/100
BL (0°-30°)	2246.5	8.5	B3/2500		
BM (30°-60°)	4579.0	17.4	B3/5000		
BH (60°-80°)	1435.6	5.5	B3/2500		G3/2500
BVH (80°-90°)	82.8	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°	47°	55°	65°	75°	85°
0°	5289.1	5289.1	5289.1	5289.1	5289.1	5289.1	5289.1	5289.1	5289.1	5289.1	5289.1
2.5°	5268.9	5258.9	5252.2	5305.9	5285.7	5289.1	5268.9	5289.1	5302.5	5272.3	5316.0
5°	5258.9	5289.1	5262.2	5279.0	5322.7	5309.2	5322.7	5363.0	5352.9	5342.8	5329.4
7.5°	5352.9	5356.3	5376.4	5383.1	5396.6	5383.1	5403.3	5440.2	5430.1	5373.1	5379.8
10°	5487.2	5493.9	5497.3	5534.2	5557.8	5561.1	5537.6	5504.0	5500.7	5577.9	5524.2
12.5°	5641.7	5624.9	5665.2	5678.6	5705.5	5735.7	5766.0	5695.4	5739.1	5742.4	5678.6
15°	5866.7	5883.5	5836.5	5836.5	5846.6	5849.9	5933.9	5900.3	5893.6	5856.6	5883.5
17.5°	6202.5	6088.3	6085.0	6038.0	6031.3	6058.1	6088.3	6115.2	6205.9	6132.0	5987.6
20°	6447.7	6474.5	6377.1	6320.1	6330.1	6390.6	6360.4	6481.2	6545.0	6424.2	6283.1
22.5°	6880.9	6790.2	6813.7	6686.1	6696.2	6760.0	6756.6	6880.9	6917.8	6726.4	6521.5
25°	7173.0	7149.5	7169.7	7068.9	7082.4	7132.7	7213.3	7418.2	7357.7	7146.2	6672.7
27.5°	7599.5	7552.5	7535.7	7498.8	7485.3	7619.7	7713.7	7932.0	7888.3	7579.4	6941.3
30°	8036.1	8005.8	8022.6	7871.5	7925.3	8210.7	8237.6	8536.4	8516.3	7972.3	7240.2
32.5°	8338.3	8355.1	8385.3	8301.4	8539.8	8768.1	8858.8	9198.0	9214.8	8647.3	7817.8
35°	8825.2	8768.1	8784.9	8882.3	8993.1	9409.6	9557.3	9782.3	9923.4	9355.8	8371.9
37.5°	9130.8	9191.3	9120.8	9275.2	9564.0	10064.4	10198.7	10430.4	10578.2	10054.3	9127.5
40°	9607.7	9510.3	9560.7	9671.5	9967.0	10618.5	10581.6	10820.0	10867.0	10648.7	9832.7
42.5°	10121.5	10074.5	10004.0	10255.8	10504.3	10977.8	11051.7	10940.9	11179.3	11229.7	10840.1
45°	10736.0	10793.1	10803.2	10809.9	11028.2	11441.2	11340.5	11243.1	11518.5	11884.5	11464.7
47.5°	11306.9	11125.6	11256.5	11437.9	11746.8	11750.2	11867.7	11636.0	11928.2	12253.9	12028.9
50°	11498.3	11411.0	11585.6	11928.2	12405.0	12455.4	12468.8	12139.7	12290.9	12549.4	12223.7
52.5°	11424.5	11394.2	11840.9	12371.5	13069.9	13325.2	13392.3	12986.0	13069.9	12952.4	12653.5
55°	11071.8	11162.5	11612.5	12693.8	13765.1	14554.3	14681.9	14168.1	13634.1	13724.8	13395.7
56°	10588.3	10430.4	10934.2	12327.8	13734.9	14953.9	15058.0	14416.6	14053.9	13936.4	13389.0
57.5°	8983.1	8778.2	9439.8	11092.0	12972.6	14802.8	14880.0	14520.7	13983.4	13744.9	12411.7
60°	5258.9	5359.6	6199.2	7649.9	10007.3	12136.4	12395.0	12656.9	12297.6	11229.7	9238.3
62.5°	2538.8	2475.0	3076.1	4385.8	6098.4	7747.3	7670.0	8405.5	8808.4	7979.0	5833.1
65°	1329.8	1323.1	1679.1	2394.4	3351.4	4070.1	4140.6	4536.9	5091.0	4110.4	2961.9
67.5°	977.2	1004.1	1182.1	1682.4	2155.9	2199.6	2189.5	2387.6	2441.4	2065.3	1820.1
70°	765.7	779.1	910.1	1279.5	1605.2	1437.3	1407.1	1430.6	1588.4	1655.6	1575.0
72.5°	554.1	567.5	678.3	863.0	1004.1	980.6	1000.7	1131.7	1326.5	1397.0	1313.0
75°	369.4	379.5	439.9	527.2	594.4	641.4	678.3	829.5	1010.8	1051.1	1010.8
77.5°	255.2	265.3	305.6	372.8	379.5	409.7	423.1	493.6	604.5	654.8	628.0
80°	144.4	144.4	164.5	191.4	235.1	275.4	282.1	339.2	389.5	423.1	429.8
82.5°	67.2	70.5	87.3	117.5	154.5	191.4	198.1	235.1	272.0	305.6	315.7
85°	33.6	36.9	50.4	70.5	94.0	114.2	110.8	114.2	120.9	114.2	117.5
87.5°	10.1	10.1	13.4	16.8	13.4	16.8	16.8	20.1	23.5	26.9	30.2
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°	5289.1	5289.1	5289.1	5289.1	5289.1	5289.1	5289.1	5289.1	5289.1	5289.1	5289.1
2.5°	5319.3	5329.4	5262.2	5326.0	5302.5	5299.2	5346.2	5339.5	5356.3	5349.5	5309.2
5°	5322.7	5299.2	5369.7	5305.9	5336.1	5399.9	5356.3	5457.0	5406.6	5440.2	5366.3
7.5°	5426.8	5433.5	5420.1	5446.9	5433.5	5463.7	5440.2	5463.7	5423.4	5426.8	5493.9
10°	5517.5	5497.3	5520.8	5487.2	5510.7	5500.7	5446.9	5430.1	5443.6	5426.8	5470.4
12.5°	5685.4	5648.4	5631.6	5591.3	5564.5	5463.7	5379.8	5332.8	5396.6	5406.6	5386.5
15°	5856.6	5860.0	5782.7	5692.1	5524.2	5373.1	5393.2	5410.0	5410.0	5436.9	5386.5
17.5°	5964.1	5964.1	5893.6	5712.2	5541.0	5453.6	5433.5	5379.8	5332.8	5326.0	5322.7
20°	6152.1	6095.1	5933.9	5708.9	5534.2	5493.9	5342.8	5215.2	5117.8	5084.3	5080.9
22.5°	6367.1	6222.7	5997.7	5715.6	5524.2	5467.1	5185.0	4993.6	4819.0	4745.1	4755.2
25°	6565.2	6333.5	6034.6	5685.4	5487.2	5211.9	4896.2	4630.9	4449.6	4389.1	4358.9
27.5°	6702.9	6451.0	6034.6	5712.2	5349.5	4926.4	4604.0	4264.9	4107.0	4066.7	4073.4
30°	6887.6	6598.8	6138.7	5655.1	5074.2	4557.0	4170.8	3949.2	3855.2	3821.6	3845.1
32.5°	7320.8	6985.0	6283.1	5517.5	4748.4	4187.6	3875.3	3751.1	3613.4	3546.2	3522.7
35°	7790.9	7351.0	6424.2	5285.7	4382.4	3851.8	3657.0	3542.9	3378.3	3304.4	3317.9
37.5°	8455.8	7821.1	6434.2	4902.9	3986.1	3663.7	3485.8	3307.8	3173.5	3059.3	3025.7
40°	9352.5	8462.6	6410.7	4499.9	3667.1	3442.1	3311.1	3089.5	2938.4	2857.8	2874.6
42.5°	10141.6	9214.8	6313.3	4043.2	3378.3	3291.0	3143.2	2925.0	2777.2	2693.2	2686.5
45°	10806.6	9768.9	6128.6	3653.7	3136.5	3123.1	2951.8	2783.9	2666.4	2589.1	2622.7
47.5°	11421.1	10215.5	5849.9	3264.1	2914.9	2941.7	2777.2	2673.1	2599.2	2528.7	2525.3
50°	11642.7	10208.8	5604.8	2941.7	2736.9	2723.5	2716.7	2605.9	2528.7	2468.2	2495.1
52.5°	12012.1	10323.0	5339.5	2720.1	2575.7	2579.1	2602.6	2522.0	2434.7	2397.7	2431.3
55°	12542.7	10339.8	4755.2	2461.5	2441.4	2464.9	2464.9	2411.2	2337.3	2307.1	2290.3
56°	12109.5	9839.4	4264.9	2394.4	2374.2	2374.2	2438.0	2377.6	2286.9	2263.4	2243.2
57.5°	11169.2	8620.4	3569.7	2313.8	2283.5	2330.6	2364.1	2300.3	2216.4	2182.8	2203.0
60°	7703.6	5833.1	2683.2	2139.1	2139.1	2216.4	2243.2	2149.2	2112.3	2108.9	2082.1
62.5°	4496.6	3398.5	2098.8	1981.3	1988.0	2051.8	2072.0	2018.3	1971.2	2028.3	2055.2
65°	2384.3	2028.3	1800.0	1813.4	1816.8	1867.1	1954.4	1951.1	1947.7	1964.5	1967.9
67.5°	1726.1	1685.8	1635.4	1622.0	1628.7	1665.6	1753.0	1820.1	1816.8	1776.5	1746.2
70°	1538.0	1480.9	1450.7	1454.1	1427.2	1470.9	1541.4	1585.1	1507.8	1460.8	1440.6
72.5°	1279.5	1262.7	1242.5	1245.9	1192.1	1182.1	1101.5	1101.5	1081.3	1067.9	1091.4
75°	977.2	970.5	980.6	963.8	906.7	846.3	799.2	755.6	688.4	661.6	648.1
77.5°	617.9	638.0	661.6	624.6	601.1	557.5	510.4	466.8	413.1	382.8	382.8
80°	419.8	436.6	453.4	446.6	419.8	379.5	342.5	295.5	258.6	235.1	231.7
82.5°	319.0	332.5	356.0	329.1	302.2	268.7	238.4	204.8	171.3	144.4	144.4
85°	114.2	131.0	144.4	157.8	167.9	171.3	147.8	120.9	97.4	77.2	73.9
87.5°	30.2	33.6	36.9	33.6	33.6	33.6	36.9	33.6	30.2	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

(END OF REPORT)