

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: P530196

Luminaire Tested: **GALN-SA5B-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530196  
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-827-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 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: 18287 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

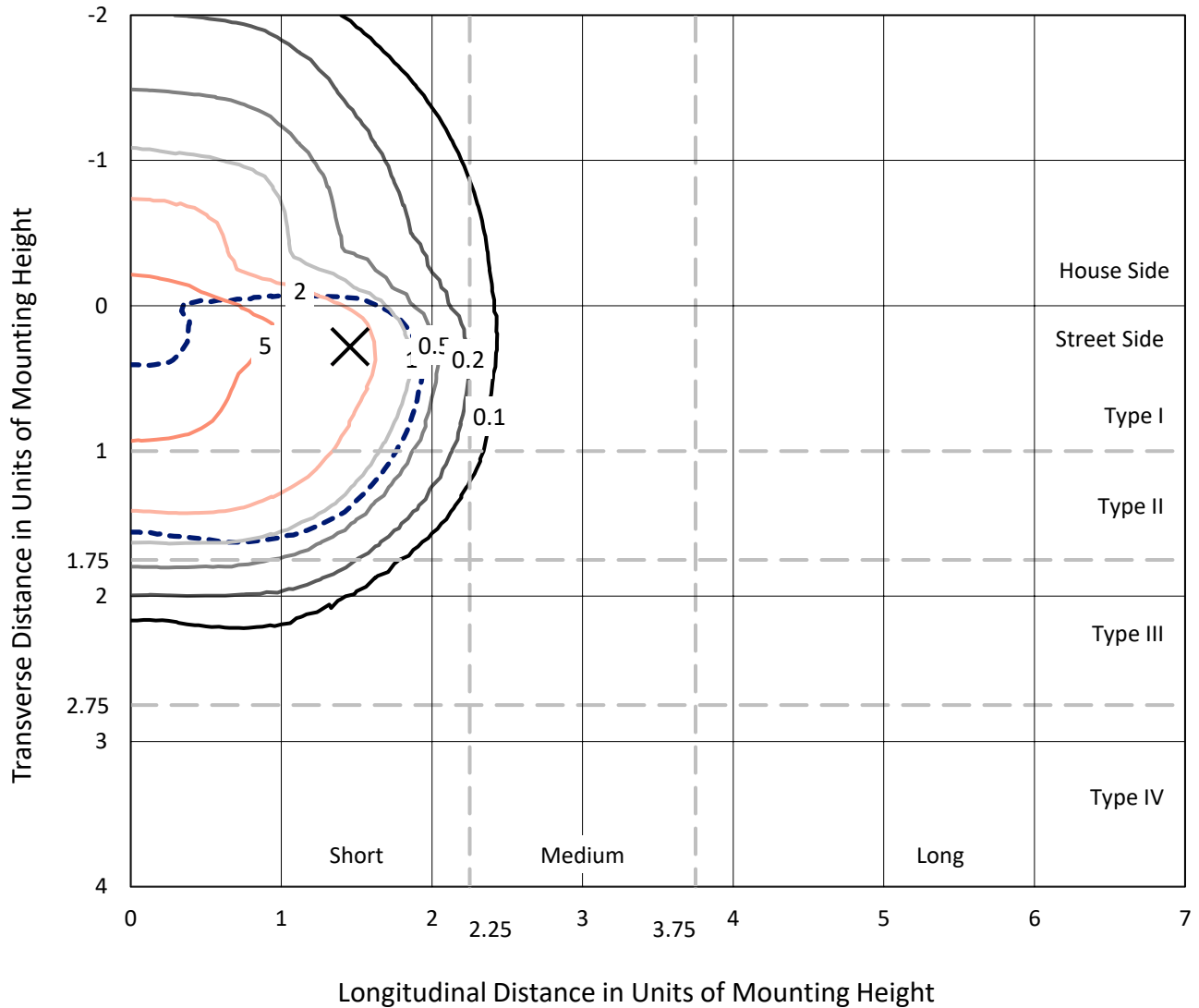
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

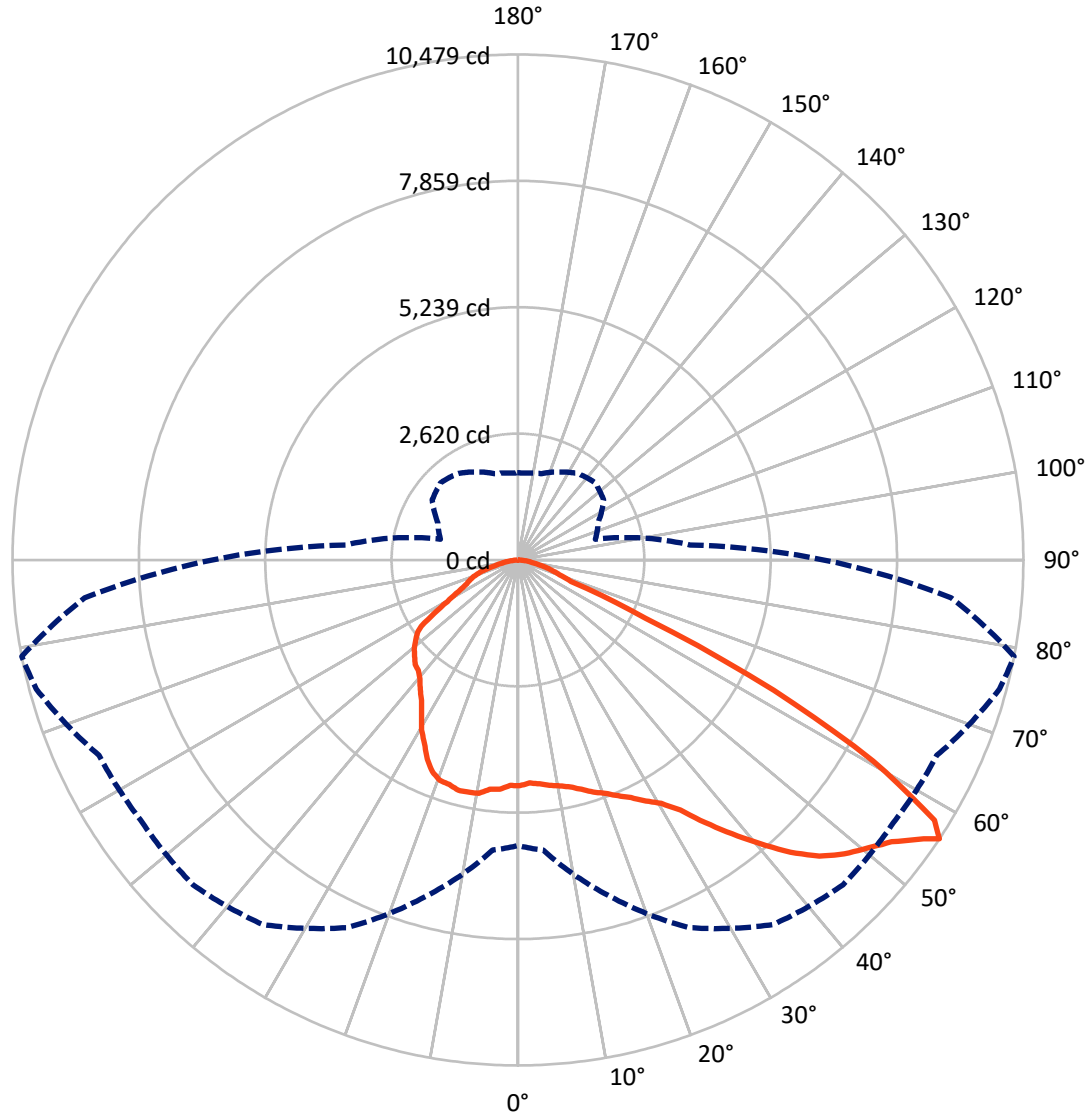
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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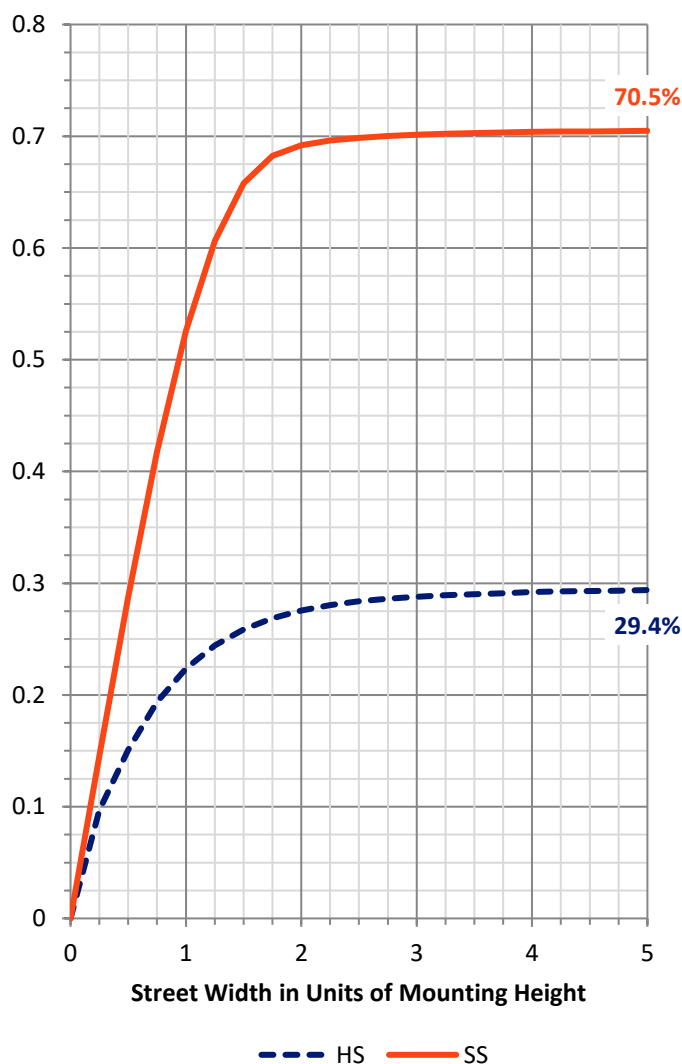
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5400.6	0.0	5400.6
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	12886.4	0.0	12886.4
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	18287.0	0.0	18287.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.4	2.3
10°-20°	1164.2	6.4
20°-30°	1991.7	10.9
30°-40°	3052.6	16.7
40°-50°	4125.5	22.6
50°-60°	4738.3	25.9
60°-70°	2159.9	11.8
70°-80°	532.5	2.9
80°-90°	96.8	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°	18287.0	100.0
0°-180°	18287.0	100.0

**Coefficient of Utilization**



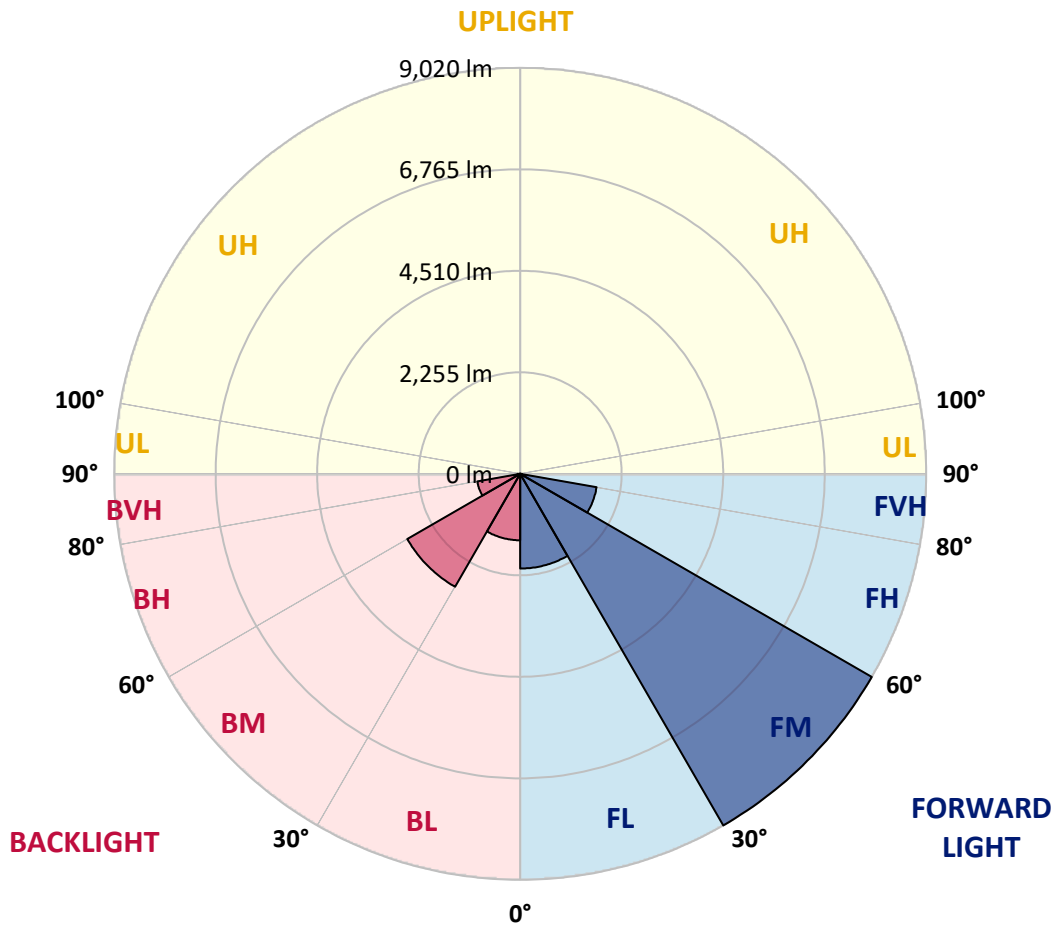
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2104.1	11.5			
FM (30°-60°)	9019.7	49.3			
FH (60°-80°)	1724.0	9.4			G1/1800
FVH (80°-90°)	38.6	0.2			G1/100
BL (0°-30°)	1477.3	8.1	B3/2500		
BM (30°-60°)	2896.8	15.8	B3/5000		
BH (60°-80°)	968.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	58.1	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4678.9	4678.9	4678.9	4678.9	4678.9	4678.9	4678.9	4678.9	4678.9	4678.9	4678.9
2.5°	4451.1	4439.7	4467.1	4487.6	4512.6	4544.5	4560.5	4569.6	4649.3	4628.8	4690.3
5°	4355.4	4325.8	4346.3	4362.3	4405.6	4444.3	4487.6	4555.9	4628.8	4660.7	4735.9
7.5°	4271.2	4255.2	4250.7	4262.1	4321.3	4371.4	4446.6	4546.8	4665.3	4717.6	4760.9
10°	4132.2	4109.4	4143.6	4218.8	4234.7	4339.5	4426.1	4569.6	4672.1	4763.2	4890.8
12.5°	4070.7	4047.9	4054.8	4098.0	4209.7	4309.9	4412.4	4574.1	4790.5	4827.0	4997.8
15°	4168.7	4145.9	4152.7	4141.3	4248.4	4300.8	4462.5	4665.3	4872.5	4934.1	5116.3
17.5°	4391.9	4394.2	4364.6	4339.5	4314.4	4426.1	4537.7	4719.9	4904.4	5059.3	5196.0
20°	4817.9	4742.7	4683.5	4542.2	4503.5	4551.4	4692.6	4868.0	5034.3	5161.8	5316.7
22.5°	5145.9	5152.7	5068.4	4836.1	4751.8	4772.3	4893.0	5036.6	5218.8	5309.9	5487.6
25°	5622.0	5574.2	5483.0	5298.5	5109.5	5125.4	5214.2	5344.1	5394.2	5458.0	5651.6
27.5°	6057.1	6070.7	5890.8	5717.7	5483.0	5437.5	5596.9	5619.7	5535.4	5656.2	5722.2
30°	6499.0	6487.6	6369.2	6166.4	5936.4	5945.5	6016.1	5904.5	5788.3	5854.3	5899.9
32.5°	6956.9	6827.0	6822.5	6640.2	6464.8	6380.6	6294.0	6348.7	6168.7	6182.4	6139.1
35°	7323.6	7341.8	7237.1	7107.2	7020.7	6872.6	6635.7	6733.6	6699.5	6683.5	6496.7
37.5°	7590.1	7519.5	7571.9	7528.6	7446.6	7262.1	7016.1	7109.5	7125.4	7202.9	6986.5
40°	7808.8	7779.2	7918.2	7941.0	7884.0	7485.4	7043.4	7321.3	7560.5	7729.1	7471.7
42.5°	7913.6	7977.4	8123.2	8298.6	8171.0	7745.0	7184.7	7483.1	8016.1	8282.6	7931.8
45°	8054.8	7972.8	8189.2	8510.4	8512.7	7963.7	7321.3	7701.8	8371.5	8758.7	8246.2
47.5°	7911.3	7952.3	8175.6	8583.3	8688.1	8193.8	7690.4	8011.6	8763.3	9107.3	8537.8
50°	7590.1	7672.2	8079.9	8503.6	8820.2	8437.5	8114.1	8346.4	9125.5	9387.5	8585.6
52.5°	7255.3	7300.8	7938.7	8565.1	8879.5	8751.9	8681.3	8808.9	9567.4	9704.1	8644.8
55°	6344.1	6560.5	7471.7	8537.8	9168.8	9319.1	9264.4	9451.2	10068.6	10205.2	8968.3
56°	5922.7	6036.6	7191.5	8410.2	9225.7	9526.4	9499.1	9583.4	10335.1	10478.6	9018.4
57.5°	5143.6	5152.7	6132.3	7845.3	9011.6	9587.9	9560.6	9626.6	10282.7	10184.7	8578.8
60°	3218.8	3360.0	4173.2	6034.3	7663.0	8895.4	9050.3	8519.6	8669.9	8462.6	6674.4
62.5°	1667.5	1647.0	2186.8	3528.6	5086.7	6369.2	6512.7	6487.6	6255.3	5952.3	4360.0
65°	831.5	836.0	1143.5	1747.2	2606.0	3334.9	3735.8	3779.1	3161.8	2908.9	2068.4
67.5°	603.7	626.4	822.3	1068.4	1227.8	1373.6	1683.4	1651.5	1250.6	1189.1	1102.5
70°	469.3	489.8	667.4	815.5	740.3	740.3	806.4	833.7	890.7	915.7	945.4
72.5°	341.7	357.6	510.3	562.7	485.2	521.7	603.7	667.4	726.7	735.8	769.9
75°	234.6	248.3	334.9	309.8	291.6	359.9	441.9	501.2	544.4	567.2	587.7
77.5°	152.6	157.2	191.3	161.7	186.8	232.4	287.0	337.1	380.4	398.6	403.2
80°	68.3	75.2	82.0	102.5	129.8	166.3	205.0	246.0	273.4	280.2	293.9
82.5°	38.7	38.7	50.1	72.9	95.7	120.7	148.1	177.7	209.6	216.4	214.1
85°	20.5	20.5	29.6	43.3	59.2	70.6	68.3	70.6	75.2	86.6	84.3
87.5°	6.8	6.8	9.1	9.1	11.4	13.7	11.4	15.9	20.5	20.5	20.5
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°	4678.9	4678.9	4678.9	4678.9	4678.9	4678.9	4678.9	4678.9	4678.9	4678.9	4678.9
2.5°	4672.1	4692.6	4665.3	4724.5	4724.5	4713.1	4656.1	4674.4	4688.0	4688.0	4699.4
5°	4760.9	4754.1	4772.3	4701.7	4658.4	4642.5	4549.1	4503.5	4464.8	4462.5	4428.3
7.5°	4811.0	4792.8	4786.0	4733.6	4542.2	4426.1	4225.6	4109.4	4084.4	3995.5	4029.7
10°	4890.8	4924.9	4890.8	4606.0	4339.5	4073.0	3877.1	3697.1	3626.5	3569.6	3535.4
12.5°	5054.8	5038.8	4840.7	4455.7	4082.1	3765.5	3473.9	3284.8	3214.2	3164.1	3159.5
15°	5193.7	5114.0	4811.0	4218.8	3681.2	3344.0	3104.9	2970.5	2938.6	2943.1	2963.6
17.5°	5241.6	5186.9	4656.1	3972.8	3382.8	2986.4	2874.8	2854.3	2883.9	2918.1	2927.2
20°	5316.7	5230.2	4592.4	3637.9	3013.7	2763.2	2756.3	2829.2	2883.9	2934.0	2940.8
22.5°	5473.9	5255.2	4385.1	3321.3	2760.9	2697.1	2763.2	2824.7	2908.9	2950.0	2913.5
25°	5519.5	5200.6	4093.5	2940.8	2601.4	2656.1	2726.7	2811.0	2870.2	2893.0	2908.9
27.5°	5558.2	5116.3	3699.4	2688.0	2551.3	2653.8	2726.7	2797.3	2829.2	2849.7	2867.9
30°	5667.6	5091.2	3357.7	2519.4	2519.4	2608.3	2701.7	2719.9	2763.2	2788.2	2820.1
32.5°	5722.2	4918.1	3006.9	2412.4	2487.5	2631.0	2637.9	2672.0	2674.3	2694.8	2660.7
35°	5865.7	4795.1	2681.2	2334.9	2501.2	2608.3	2642.4	2621.9	2510.3	2455.6	2467.0
37.5°	5970.5	4733.6	2446.5	2325.8	2503.5	2633.3	2651.5	2496.6	2380.5	2289.3	2312.1
40°	6253.0	4581.0	2268.8	2309.8	2524.0	2660.7	2610.5	2442.0	2232.4	2139.0	2123.1
42.5°	6469.4	4471.6	2157.2	2291.6	2539.9	2699.4	2590.0	2332.6	2118.5	2031.9	2054.7
45°	6720.0	4446.6	2098.0	2296.2	2567.3	2719.9	2565.0	2248.3	2020.5	1986.4	1979.5
47.5°	6808.8	4266.6	2034.2	2257.5	2560.4	2713.0	2480.7	2184.6	1984.1	1988.7	2006.9
50°	6660.7	4082.1	1986.4	2177.7	2514.9	2651.5	2348.6	2100.3	1963.6	2020.5	2052.4
52.5°	6471.7	3893.0	1888.4	2070.7	2421.5	2555.9	2287.1	2095.7	1943.1	1924.9	1931.7
55°	6528.6	3738.1	1751.7	1924.9	2271.1	2378.2	2218.7	2052.4	1893.0	1824.6	1847.4
56°	6344.1	3578.7	1662.9	1833.8	2168.6	2264.3	2184.6	2013.7	1852.0	1806.4	1806.4
57.5°	5822.5	3043.3	1546.7	1688.0	1952.2	2066.1	2118.5	1990.9	1806.4	1726.7	1729.0
60°	4293.9	2164.1	1387.3	1487.5	1617.3	1708.5	1952.2	1927.1	1692.5	1637.8	1617.3
62.5°	2647.0	1580.9	1273.4	1312.1	1378.2	1453.3	1703.9	1744.9	1571.8	1512.6	1498.9
65°	1482.9	1209.6	1186.8	1202.8	1234.7	1273.4	1414.6	1505.7	1387.3	1296.2	1291.6
67.5°	1084.3	1082.0	1100.3	1113.9	1127.6	1127.6	1161.8	1198.2	1182.3	1109.4	1102.5
70°	963.6	970.4	984.1	986.4	990.9	975.0	947.6	936.2	954.5	908.9	899.8
72.5°	795.0	817.8	833.7	836.0	811.0	790.5	754.0	715.3	701.6	692.5	690.2
75°	610.5	626.4	633.3	631.0	621.9	592.3	549.0	510.3	485.2	457.9	471.5
77.5°	412.3	435.1	446.5	446.5	432.8	387.3	366.8	337.1	312.1	282.5	287.0
80°	289.3	305.2	323.5	321.2	298.4	275.6	246.0	218.7	198.2	175.4	173.1
82.5°	216.4	225.5	234.6	230.1	214.1	191.3	170.8	145.8	123.0	107.1	107.1
85°	77.5	84.3	102.5	107.1	116.2	116.2	98.0	82.0	66.1	54.7	54.7
87.5°	22.8	22.8	25.1	25.1	22.8	25.1	20.5	22.8	25.1	15.9	15.9
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)