

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: P529156

Luminaire Tested: **GALN-SA4B-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529156  
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-SA4B-735-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 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: 18305 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

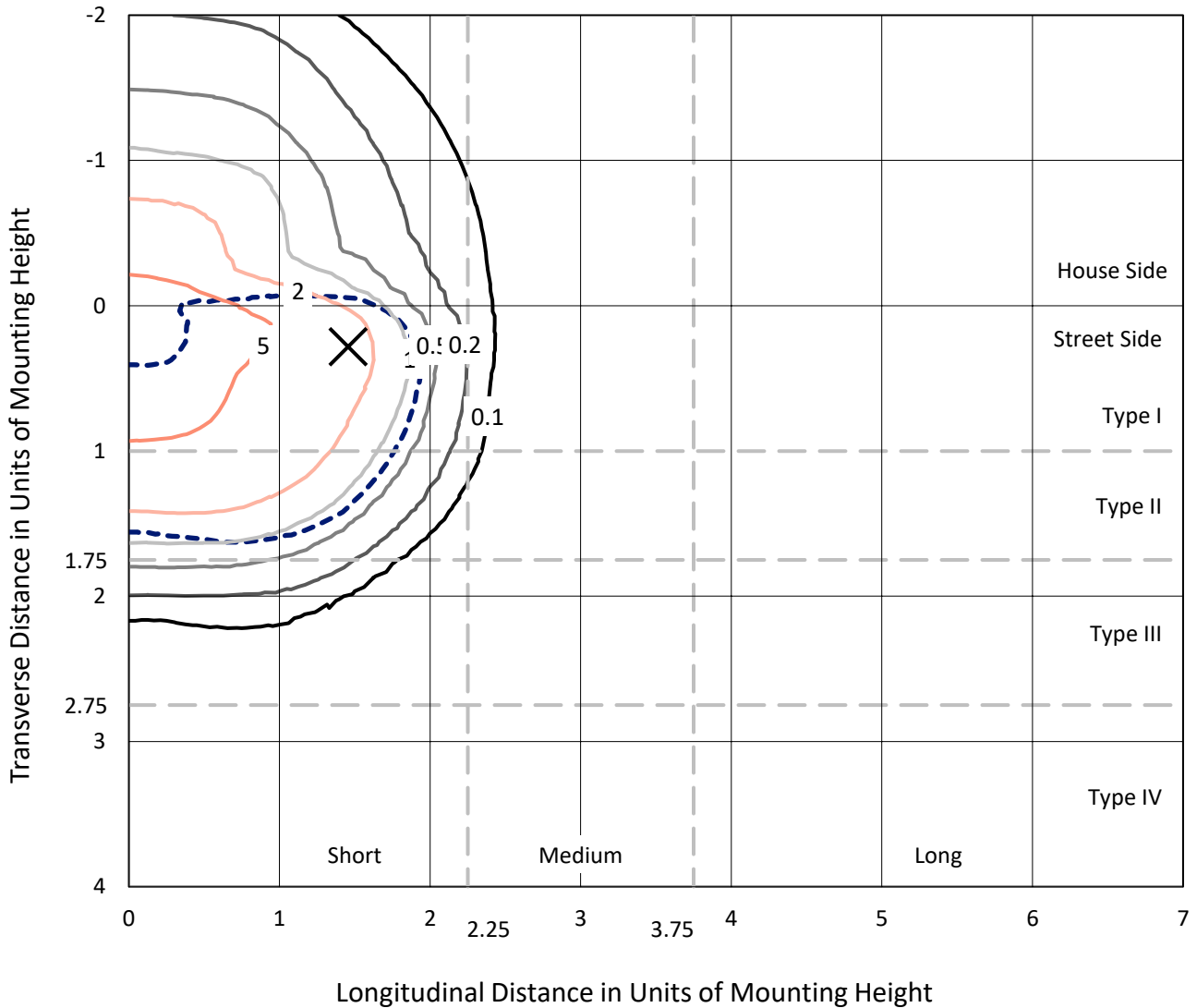
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

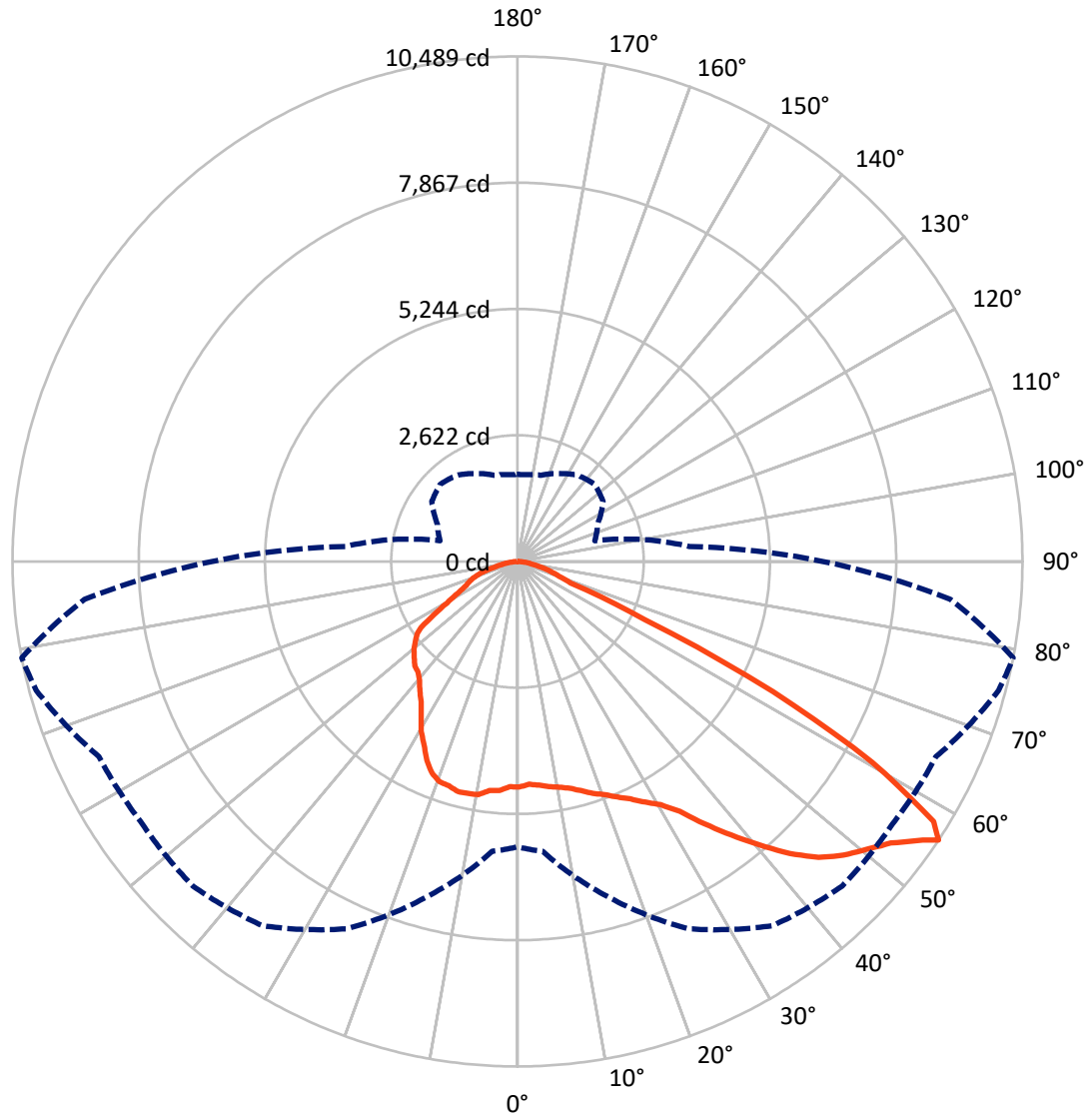
✕ Max cd  
 - - - 1/2 Max cd



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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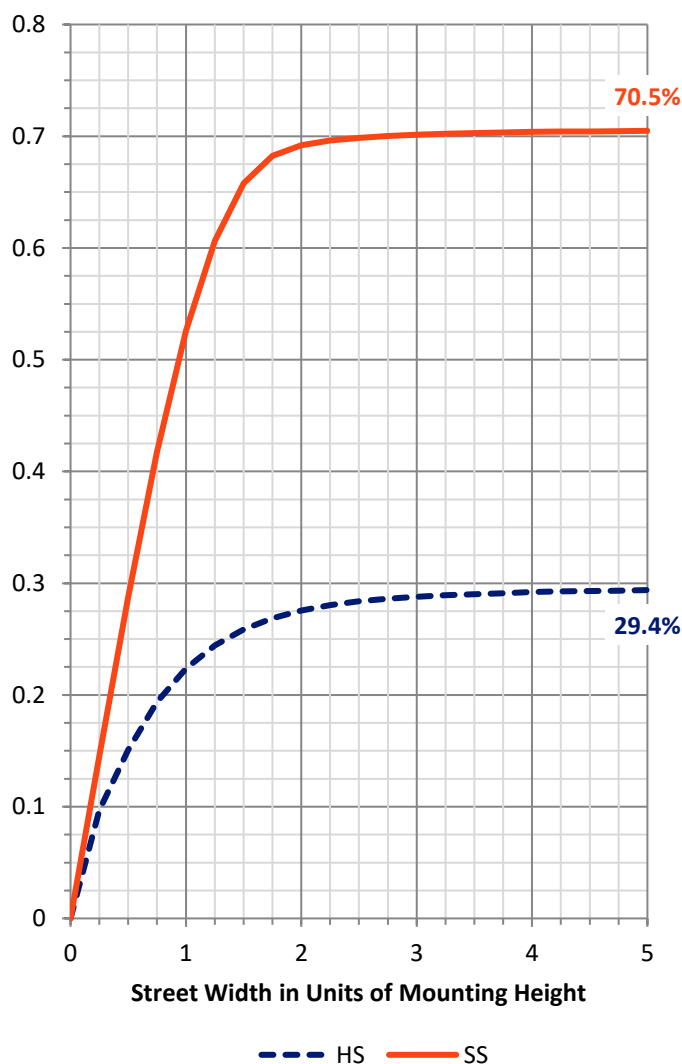
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5405.9	0.0	5405.9
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	12899.1	0.0	12899.1
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	18305.0	0.0	18305.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.8	2.3
10°-20°	1165.4	6.4
20°-30°	1993.7	10.9
30°-40°	3055.6	16.7
40°-50°	4129.6	22.6
50°-60°	4743.0	25.9
60°-70°	2162.0	11.8
70°-80°	533.0	2.9
80°-90°	96.9	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°	18305.0	100.0
0°-180°	18305.0	100.0

**Coefficient of Utilization**

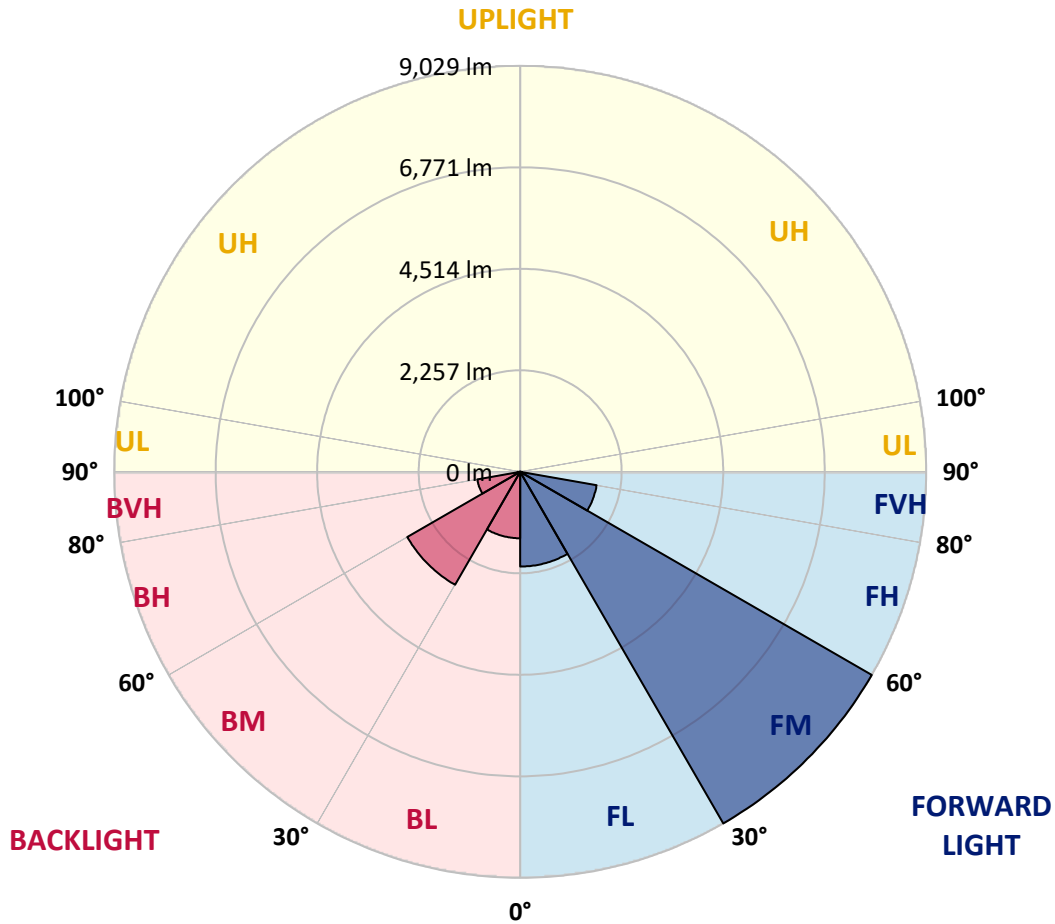


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2106.1	11.5			
FM (30°-60°)	9028.6	49.3			
FH (60°-80°)	1725.7	9.4			G1/1800
FVH (80°-90°)	38.7	0.2			G1/100
BL (0°-30°)	1478.7	8.1	B3/2500		
BM (30°-60°)	2899.6	15.8	B3/5000		
BH (60°-80°)	969.3	5.3	B2/1000		G2/1000
BVH (80°-90°)	58.2	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°	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5
2.5°	4455.5	4444.1	4471.5	4492.0	4517.1	4549.0	4565.0	4574.1	4653.9	4633.4	4694.9
5°	4359.7	4330.1	4350.6	4366.6	4409.9	4448.7	4492.0	4560.4	4633.4	4665.3	4740.5
7.5°	4275.4	4259.4	4254.8	4266.2	4325.5	4375.7	4450.9	4551.3	4669.8	4722.3	4765.6
10°	4136.3	4113.5	4147.7	4222.9	4238.9	4343.8	4430.4	4574.1	4676.7	4767.9	4895.6
12.5°	4074.7	4051.9	4058.8	4102.1	4213.8	4314.1	4416.7	4578.6	4795.3	4831.7	5002.8
15°	4172.8	4150.0	4156.8	4145.4	4252.6	4305.0	4466.9	4669.8	4877.3	4938.9	5121.3
17.5°	4396.2	4398.5	4368.9	4343.8	4318.7	4430.4	4542.2	4724.6	4909.3	5064.3	5201.1
20°	4822.6	4747.4	4688.1	4546.7	4507.9	4555.8	4697.2	4872.8	5039.2	5166.9	5322.0
22.5°	5151.0	5157.8	5073.4	4840.9	4756.5	4777.0	4897.9	5041.5	5223.9	5315.1	5493.0
25°	5627.5	5579.6	5488.4	5303.7	5114.5	5130.4	5219.4	5349.3	5399.5	5463.4	5657.2
27.5°	6063.0	6076.7	5896.6	5723.3	5488.4	5442.8	5602.4	5625.2	5540.9	5661.7	5727.9
30°	6505.4	6494.0	6375.4	6172.5	5942.2	5951.3	6022.0	5910.3	5794.0	5860.1	5905.7
32.5°	6963.7	6833.8	6829.2	6646.8	6471.2	6386.8	6300.2	6354.9	6174.8	6188.5	6145.1
35°	7330.8	7349.1	7244.2	7114.2	7027.6	6879.4	6642.2	6740.3	6706.1	6690.1	6503.1
37.5°	7597.6	7526.9	7579.4	7536.1	7454.0	7269.3	7023.0	7116.5	7132.5	7210.0	6993.4
40°	7816.5	7786.9	7926.0	7948.8	7891.8	7492.7	7050.4	7328.6	7568.0	7736.7	7479.0
42.5°	7921.4	7985.2	8131.2	8306.8	8179.1	7752.7	7191.7	7490.4	8024.0	8290.8	7939.6
45°	8062.8	7980.7	8197.3	8518.8	8521.1	7971.6	7328.6	7709.3	8379.7	8767.4	8254.3
47.5°	7919.1	7960.2	8183.6	8591.8	8696.7	8201.9	7697.9	8019.5	8771.9	9116.2	8546.2
50°	7597.6	7679.7	8087.9	8512.0	8828.9	8445.8	8122.1	8354.6	9134.5	9396.7	8594.1
52.5°	7262.4	7308.0	7946.5	8573.5	8888.2	8760.5	8689.8	8817.5	9576.8	9713.6	8653.3
55°	6350.3	6567.0	7479.0	8546.2	9177.8	9328.3	9273.6	9460.5	10078.5	10215.3	8977.1
56°	5928.5	6042.5	7198.6	8418.5	9234.8	9535.8	9508.4	9592.8	10345.3	10488.9	9027.3
57.5°	5148.7	5157.8	6138.3	7853.0	9020.5	9597.3	9570.0	9636.1	10292.8	10194.8	8587.2
60°	3221.9	3363.3	4177.3	6040.2	7670.6	8904.2	9059.2	8527.9	8678.4	8470.9	6681.0
62.5°	1669.1	1648.6	2189.0	3532.0	5091.7	6375.4	6519.1	6494.0	6261.4	5958.2	4364.3
65°	832.3	836.8	1144.7	1748.9	2608.5	3338.2	3739.5	3782.8	3164.9	2911.8	2070.4
67.5°	604.3	627.1	823.2	1069.4	1229.0	1375.0	1685.1	1653.1	1251.8	1190.3	1103.6
70°	469.7	490.2	668.1	816.3	741.1	741.1	807.2	834.6	891.6	916.6	946.3
72.5°	342.0	358.0	510.8	563.2	485.7	522.2	604.3	668.1	727.4	736.5	770.7
75°	234.9	248.5	335.2	310.1	291.9	360.3	442.4	501.6	545.0	567.8	588.3
77.5°	152.8	157.3	191.5	161.9	187.0	232.6	287.3	337.5	380.8	399.0	403.6
80°	68.4	75.2	82.1	102.6	130.0	166.5	205.2	246.3	273.6	280.5	294.1
82.5°	38.8	38.8	50.2	73.0	95.8	120.9	148.2	177.9	209.8	216.6	214.3
85°	20.5	20.5	29.6	43.3	59.3	70.7	68.4	70.7	75.2	86.6	84.4
87.5°	6.8	6.8	9.1	9.1	11.4	13.7	11.4	16.0	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°	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5
2.5°	4676.7	4697.2	4669.8	4729.1	4729.1	4717.7	4660.7	4679.0	4692.6	4692.6	4704.0
5°	4765.6	4758.8	4777.0	4706.3	4663.0	4647.0	4553.6	4507.9	4469.2	4466.9	4432.7
7.5°	4815.8	4797.5	4790.7	4738.2	4546.7	4430.4	4229.8	4113.5	4088.4	3999.5	4033.7
10°	4895.6	4929.8	4895.6	4610.6	4343.8	4077.0	3880.9	3700.8	3630.1	3573.1	3538.9
12.5°	5059.8	5043.8	4845.4	4460.1	4086.1	3769.2	3477.3	3288.0	3217.4	3167.2	3162.6
15°	5198.8	5119.0	4815.8	4222.9	3684.8	3347.3	3107.9	2973.4	2941.5	2946.0	2966.5
17.5°	5246.7	5192.0	4660.7	3976.7	3386.1	2989.3	2877.6	2857.1	2886.7	2920.9	2930.1
20°	5322.0	5235.3	4596.9	3641.5	3016.7	2765.9	2759.0	2832.0	2886.7	2936.9	2943.7
22.5°	5479.3	5260.4	4389.4	3324.5	2763.6	2699.8	2765.9	2827.4	2911.8	2952.9	2916.4
25°	5524.9	5205.7	4097.5	2943.7	2604.0	2658.7	2729.4	2813.8	2873.0	2895.9	2911.8
27.5°	5563.7	5121.3	3703.0	2690.6	2553.8	2656.4	2729.4	2800.1	2832.0	2852.5	2870.8
30°	5673.1	5096.2	3361.0	2521.9	2521.9	2610.8	2704.3	2722.6	2765.9	2791.0	2822.9
32.5°	5727.9	4922.9	3009.9	2414.7	2490.0	2633.6	2640.5	2674.7	2677.0	2697.5	2663.3
35°	5871.5	4799.8	2683.8	2337.2	2503.7	2610.8	2645.0	2624.5	2512.8	2458.1	2469.5
37.5°	5976.4	4738.2	2448.9	2328.1	2505.9	2635.9	2654.1	2499.1	2382.8	2291.6	2314.4
40°	6259.1	4585.5	2271.1	2312.1	2526.5	2663.3	2613.1	2444.4	2234.6	2141.1	2125.1
42.5°	6475.8	4476.0	2159.3	2293.9	2542.4	2702.0	2592.6	2334.9	2120.6	2033.9	2056.7
45°	6726.6	4450.9	2100.1	2298.4	2569.8	2722.6	2567.5	2250.6	2022.5	1988.3	1981.5
47.5°	6815.5	4270.8	2036.2	2259.7	2562.9	2715.7	2483.1	2186.7	1986.1	1990.6	2008.9
50°	6667.3	4086.1	1988.3	2179.9	2517.3	2654.1	2350.9	2102.3	1965.5	2022.5	2054.5
52.5°	6478.0	3896.9	1890.3	2072.7	2423.8	2558.4	2289.3	2097.8	1945.0	1926.8	1933.6
55°	6535.0	3741.8	1753.5	1926.8	2273.4	2380.5	2220.9	2054.5	1894.8	1826.4	1849.2
56°	6350.3	3582.2	1664.5	1835.6	2170.7	2266.5	2186.7	2015.7	1853.8	1808.2	1808.2
57.5°	5828.2	3046.3	1548.3	1689.6	1954.1	2068.1	2120.6	1992.9	1808.2	1728.4	1730.7
60°	4298.2	2166.2	1388.6	1489.0	1618.9	1710.1	1954.1	1929.0	1694.2	1639.5	1618.9
62.5°	2649.6	1582.5	1274.6	1313.4	1379.5	1454.8	1705.6	1746.6	1573.3	1514.1	1500.4
65°	1484.4	1210.8	1188.0	1203.9	1235.9	1274.6	1416.0	1507.2	1388.6	1297.4	1292.9
67.5°	1085.4	1083.1	1101.3	1115.0	1128.7	1128.7	1162.9	1199.4	1183.4	1110.5	1103.6
70°	964.5	971.4	985.0	987.3	991.9	975.9	948.6	937.2	955.4	909.8	900.7
72.5°	795.8	818.6	834.6	836.8	811.8	791.2	754.7	716.0	702.3	693.2	690.9
75°	611.1	627.1	633.9	631.6	622.5	592.9	549.5	510.8	485.7	458.3	472.0
77.5°	412.7	435.5	446.9	446.9	433.2	387.6	367.1	337.5	312.4	282.7	287.3
80°	289.6	305.5	323.8	321.5	298.7	275.9	246.3	218.9	198.4	175.6	173.3
82.5°	216.6	225.7	234.9	230.3	214.3	191.5	171.0	145.9	123.1	107.2	107.2
85°	77.5	84.4	102.6	107.2	116.3	116.3	98.0	82.1	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	16.0	16.0
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)