

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: P650864

Luminaire Tested: **GALN-SA4C-840-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650864  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-840-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19618.9 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

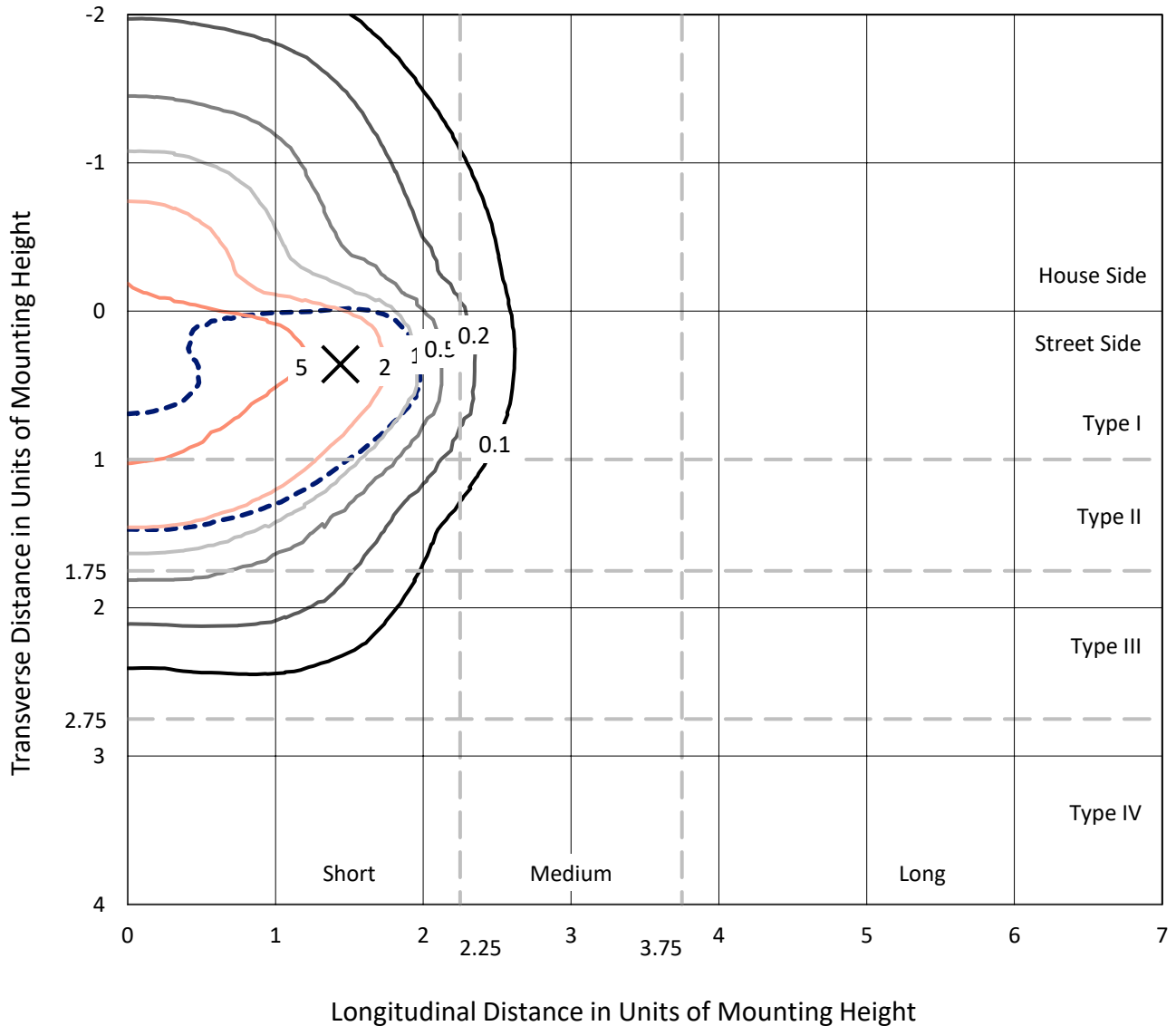
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

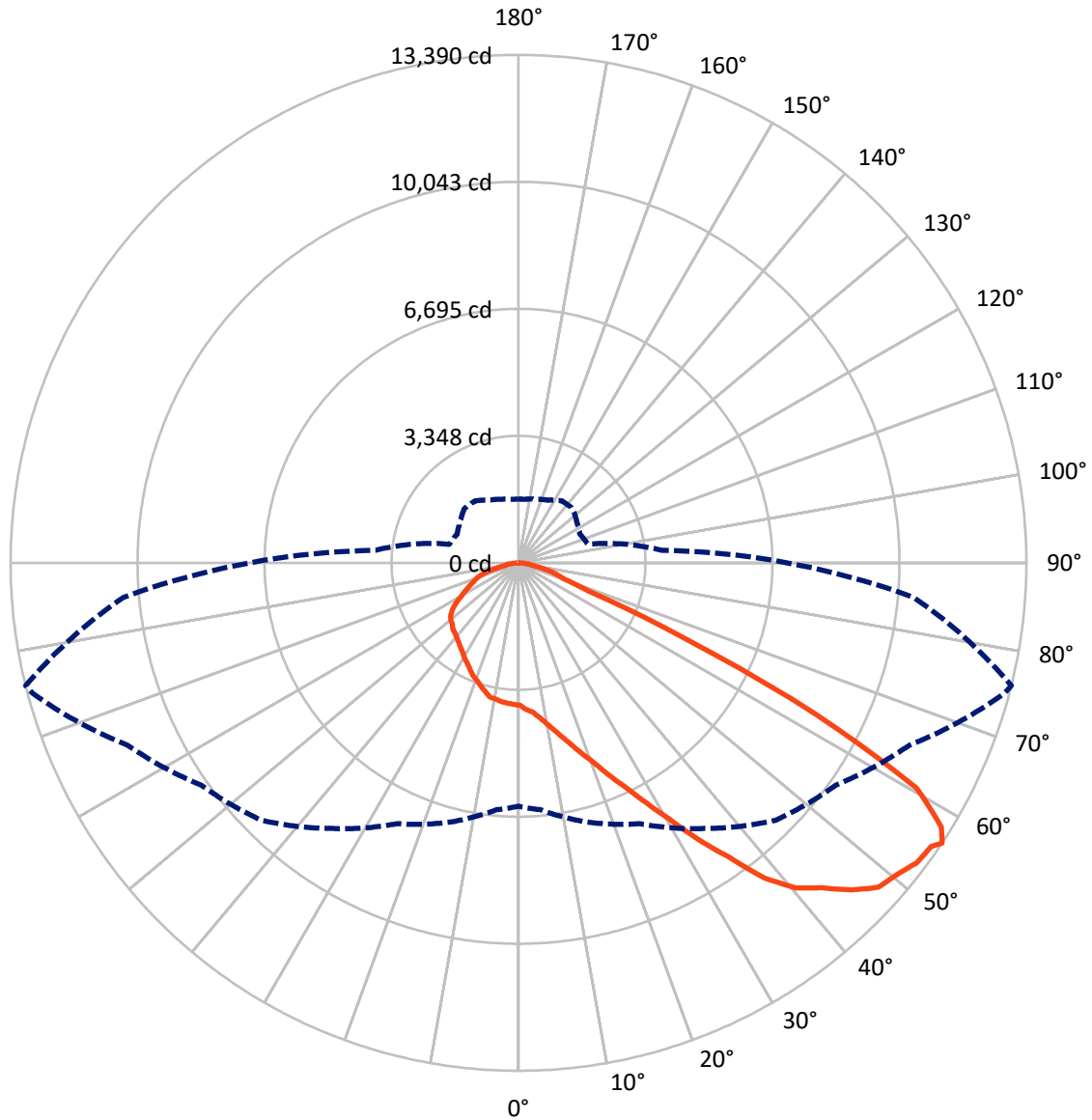
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5274.9	0.0	5274.9
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	14343.9	0.0	14343.9
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	19618.9	0.0	19618.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.3	1.9
10°-20°	1169.4	6.0
20°-30°	2045.1	10.4
30°-40°	3202.1	16.3
40°-50°	4658.1	23.7
50°-60°	5119.6	26.1
60°-70°	2285.2	11.6
70°-80°	660.0	3.4
80°-90°	107.1	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°	19618.9	100.0
0°-180°	19618.9	100.0

**Coefficient of Utilization**

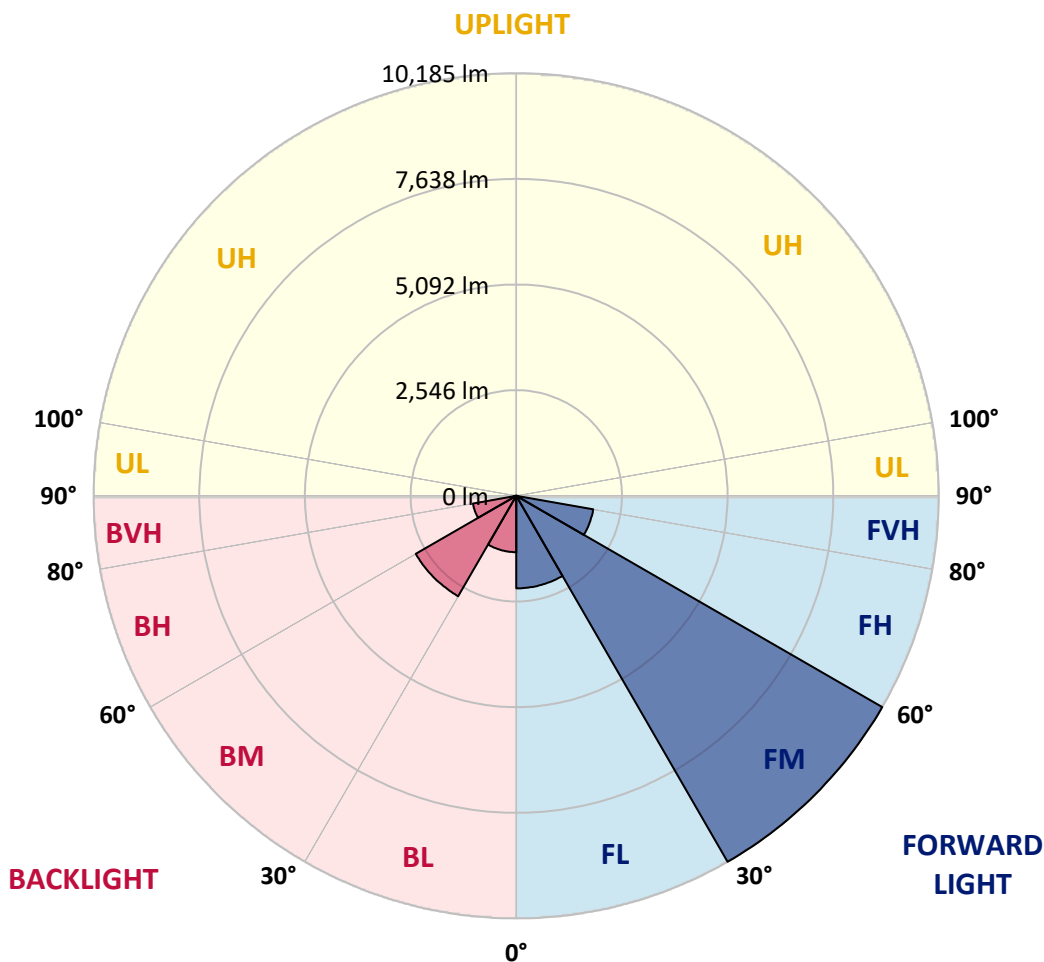


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2229.5	11.4			
FM (30°-60°)	10184.5	51.9			
FH (60°-80°)	1883.9	9.6			G2/5000
FVH (80°-90°)	46.1	0.2			G1/100
BL (0°-30°)	1357.3	6.9	B3/2500		
BM (30°-60°)	2795.3	14.2	B3/5000		
BH (60°-80°)	1061.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	61.0	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°	76°	85°
0°	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8
2.5°	4135.3	4069.2	4064.0	4046.3	4056.5	4010.6	3962.4	3898.8	3832.7	3873.3	3776.7
5°	4425.3	4336.2	4371.9	4310.8	4318.5	4257.4	4158.2	4084.4	4003.1	3954.7	3886.1
7.5°	4526.9	4534.6	4560.0	4549.8	4499.0	4499.0	4432.8	4303.1	4160.8	4132.8	4018.3
10°	4664.3	4666.9	4638.9	4646.5	4717.7	4684.6	4626.2	4570.2	4387.1	4354.0	4150.6
12.5°	4712.6	4666.9	4712.6	4753.3	4837.3	4883.0	4870.3	4829.6	4633.7	4610.9	4313.3
15°	4720.3	4692.3	4730.5	4822.0	4895.7	5089.0	5185.7	5157.7	4898.2	4900.8	4496.4
17.5°	4684.6	4722.8	4738.0	4816.9	4987.3	5167.9	5447.6	5485.8	5272.1	5239.1	4727.8
20°	4733.0	4705.0	4725.3	4796.6	5022.9	5305.2	5671.5	5923.2	5623.1	5600.2	4966.9
22.5°	4918.6	4880.5	4875.4	4921.2	5083.9	5376.4	5907.9	6360.7	6050.3	6063.1	5264.5
25°	5063.6	5083.9	5066.1	5063.6	5165.3	5483.2	6220.8	6882.0	6630.2	6556.4	5615.4
27.5°	5312.8	5361.1	5325.5	5373.8	5350.9	5643.4	6444.6	7459.3	7255.8	7156.7	5933.3
30°	5658.7	5684.2	5651.1	5651.1	5582.4	5867.2	6648.0	8062.1	7978.1	7843.3	6307.2
32.5°	6113.9	6152.1	6086.0	6047.8	6037.6	6200.4	7014.3	8657.2	8799.6	8685.2	6803.2
35°	6716.6	6693.8	6615.0	6579.3	6442.0	6711.6	7558.5	9341.3	9715.1	9511.7	7403.3
37.5°	7248.2	7212.6	7207.5	7009.1	7042.2	7263.5	8021.4	9860.1	10602.7	10544.3	8036.6
40°	7744.2	7777.2	7830.6	7718.7	7667.8	7912.0	8560.5	10256.8	11291.9	11269.1	8525.0
42.5°	8275.7	8245.2	8339.3	8245.2	8168.9	8514.8	9145.5	10531.5	11897.3	11709.1	9036.1
45°	9046.3	8949.7	8982.7	8990.4	8934.4	9061.5	9387.1	10729.9	12322.0	12301.6	9409.9
47.5°	9689.7	9692.3	9636.3	9593.1	9422.6	9549.8	9656.7	10854.5	12810.3	12777.2	9554.9
50°	9928.8	9895.7	10058.5	10152.6	10162.7	9903.4	9867.8	10923.2	13067.1	12922.2	9699.9
52.5°	9069.2	9099.7	9356.5	9916.1	10239.1	10267.0	10114.5	11065.6	13171.4	13140.9	9816.9
55°	7299.1	7446.6	7868.7	8514.8	9280.3	10122.1	10381.5	11213.1	13227.3	13201.9	10335.7
56°	6416.6	6531.0	7080.4	7586.5	8547.8	9595.6	10213.6	11370.8	13270.6	13390.1	10457.8
57.5°	5165.3	5297.5	5691.7	6266.5	7400.8	8593.6	9750.7	11177.5	13102.8	13148.5	10546.8
60°	3229.9	3242.6	3715.7	4094.6	4893.2	6058.0	7441.5	9725.3	12126.1	12060.0	9473.5
62.5°	2118.5	2121.1	2550.8	2861.2	3224.8	3491.8	4379.4	6449.6	8947.1	8830.1	6744.7
65°	1487.8	1520.9	1854.0	2268.6	2416.1	2276.2	2248.2	3400.3	4997.5	4829.6	3624.1
67.5°	1088.5	1091.0	1386.1	1831.1	2044.7	1732.0	1406.4	1660.7	1978.6	1973.6	1678.6
70°	719.7	750.3	976.6	1368.2	1612.4	1391.2	1149.6	1187.7	1258.9	1258.9	1248.7
72.5°	419.7	447.6	597.7	867.2	905.4	869.8	910.5	1017.3	1063.1	1060.5	1047.8
75°	239.1	251.8	284.8	361.1	450.2	531.5	668.8	770.6	816.4	844.4	811.3
77.5°	139.9	147.5	167.9	206.0	234.0	287.4	363.6	434.9	495.9	488.3	493.4
80°	73.8	73.8	94.1	122.1	162.7	203.4	241.6	282.3	315.4	323.0	330.6
82.5°	43.2	45.8	61.1	89.0	117.0	145.0	185.7	213.6	244.1	246.7	251.8
85°	22.9	25.4	38.2	58.5	78.8	89.0	91.6	86.5	94.1	89.0	101.8
87.5°	7.7	7.7	12.7	10.2	10.2	12.7	15.2	15.2	20.4	20.4	20.4
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°	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8
2.5°	3774.2	3774.2	3730.9	3649.5	3636.8	3603.8	3573.2	3570.7	3547.8	3527.5	3517.3
5°	3845.4	3766.5	3702.9	3629.2	3542.7	3502.0	3456.3	3405.4	3385.0	3405.4	3402.9
7.5°	3926.7	3860.6	3669.9	3532.5	3433.4	3392.7	3341.8	3288.4	3293.5	3293.5	3257.9
10°	4005.6	3916.6	3611.4	3435.9	3290.9	3260.4	3232.5	3252.8	3278.2	3283.3	3260.4
12.5°	4137.8	3936.9	3583.4	3339.3	3247.7	3181.6	3199.4	3255.3	3308.7	3293.5	3311.3
15°	4237.0	3954.7	3456.3	3240.1	3125.7	3156.2	3219.8	3257.9	3346.9	3336.8	3354.5
17.5°	4333.7	3964.9	3331.6	3107.8	3059.5	3143.4	3191.8	3301.1	3329.1	3390.2	3413.0
20°	4532.1	3985.2	3204.5	3026.4	3011.2	3107.8	3191.8	3242.6	3303.7	3357.1	3357.1
22.5°	4633.7	3975.1	3120.5	2919.6	2968.0	3029.0	3105.3	3191.8	3191.8	3242.6	3245.2
25°	4760.9	3934.4	2988.3	2868.7	2904.4	2962.8	3049.3	3018.9	3051.9	3051.9	3092.6
27.5°	4905.9	3847.9	2873.9	2777.2	2848.4	2912.0	2924.7	2904.4	2866.2	2861.2	2845.9
30°	5022.9	3741.1	2789.9	2746.7	2805.2	2840.8	2800.1	2756.9	2690.8	2685.6	2650.1
32.5°	5183.1	3608.8	2685.6	2670.4	2736.5	2739.1	2726.4	2660.3	2563.6	2522.9	2482.2
35°	5452.7	3532.5	2606.8	2629.7	2650.1	2642.4	2619.5	2548.3	2451.7	2433.9	2418.6
37.5°	5651.1	3476.6	2525.4	2553.4	2571.2	2581.4	2512.7	2433.9	2436.4	2400.8	2390.6
40°	5874.9	3441.0	2459.3	2472.0	2474.6	2507.6	2423.7	2385.6	2403.3	2380.5	2395.8
42.5°	6162.3	3451.2	2390.6	2380.5	2428.8	2416.1	2375.4	2324.5	2334.7	2266.0	2276.2
45°	6314.8	3519.8	2349.9	2304.2	2357.6	2355.1	2301.6	2253.3	2192.2	2060.0	2065.1
47.5°	6416.6	3537.7	2253.3	2222.8	2278.8	2311.8	2250.8	2138.8	2052.4	1958.3	1935.4
50°	6520.9	3570.7	2207.5	2144.0	2166.8	2245.6	2169.4	2062.6	1978.6	1894.7	1907.4
52.5°	6612.4	3634.3	2118.5	2024.5	2065.1	2151.6	2110.9	1981.1	1889.6	1820.9	1800.6
55°	7019.3	3776.7	1968.4	1846.4	1943.0	2052.4	2029.5	1871.8	1772.7	1737.0	1732.0
56°	7082.9	3781.8	1889.6	1785.4	1874.3	2019.3	1991.3	1823.5	1734.5	1678.6	1681.1
57.5°	7093.1	3720.8	1777.7	1729.4	1805.7	1971.0	1935.4	1785.4	1663.2	1612.4	1597.1
60°	6241.1	2904.4	1637.8	1607.3	1696.3	1823.5	1810.8	1681.1	1543.7	1485.3	1513.2
62.5°	4254.9	2128.7	1528.5	1523.4	1569.1	1693.8	1660.7	1543.7	1429.3	1391.2	1373.4
65°	2477.1	1615.0	1421.6	1401.4	1439.5	1505.6	1528.5	1406.4	1286.9	1261.4	1253.8
67.5°	1462.3	1335.2	1284.4	1251.2	1238.5	1279.2	1297.1	1225.8	1106.3	1070.7	1101.2
70°	1223.3	1187.7	1190.3	1134.3	1103.7	1075.8	1060.5	996.9	897.8	852.0	839.2
72.5°	1055.5	1040.1	1030.0	979.2	951.2	887.6	821.5	757.9	684.2	646.0	648.5
75°	806.2	801.1	806.2	780.8	732.4	681.5	620.6	539.2	483.2	434.9	445.1
77.5°	480.6	495.9	503.6	493.4	473.1	427.2	389.1	335.7	282.3	244.1	239.1
80°	330.6	343.3	356.1	343.3	323.0	289.9	249.3	208.6	170.4	150.0	145.0
82.5°	251.8	264.5	272.1	259.4	234.0	198.4	170.4	142.4	111.9	91.6	86.5
85°	91.6	104.3	101.8	122.1	132.3	127.2	109.3	83.9	63.6	45.8	43.2
87.5°	25.4	22.9	25.4	25.4	25.4	22.9	20.4	20.4	20.4	12.7	10.2
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)