

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: P191793

Luminaire Tested: **GLEON-AF-05-LED-E1-RW-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-RW-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20036 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

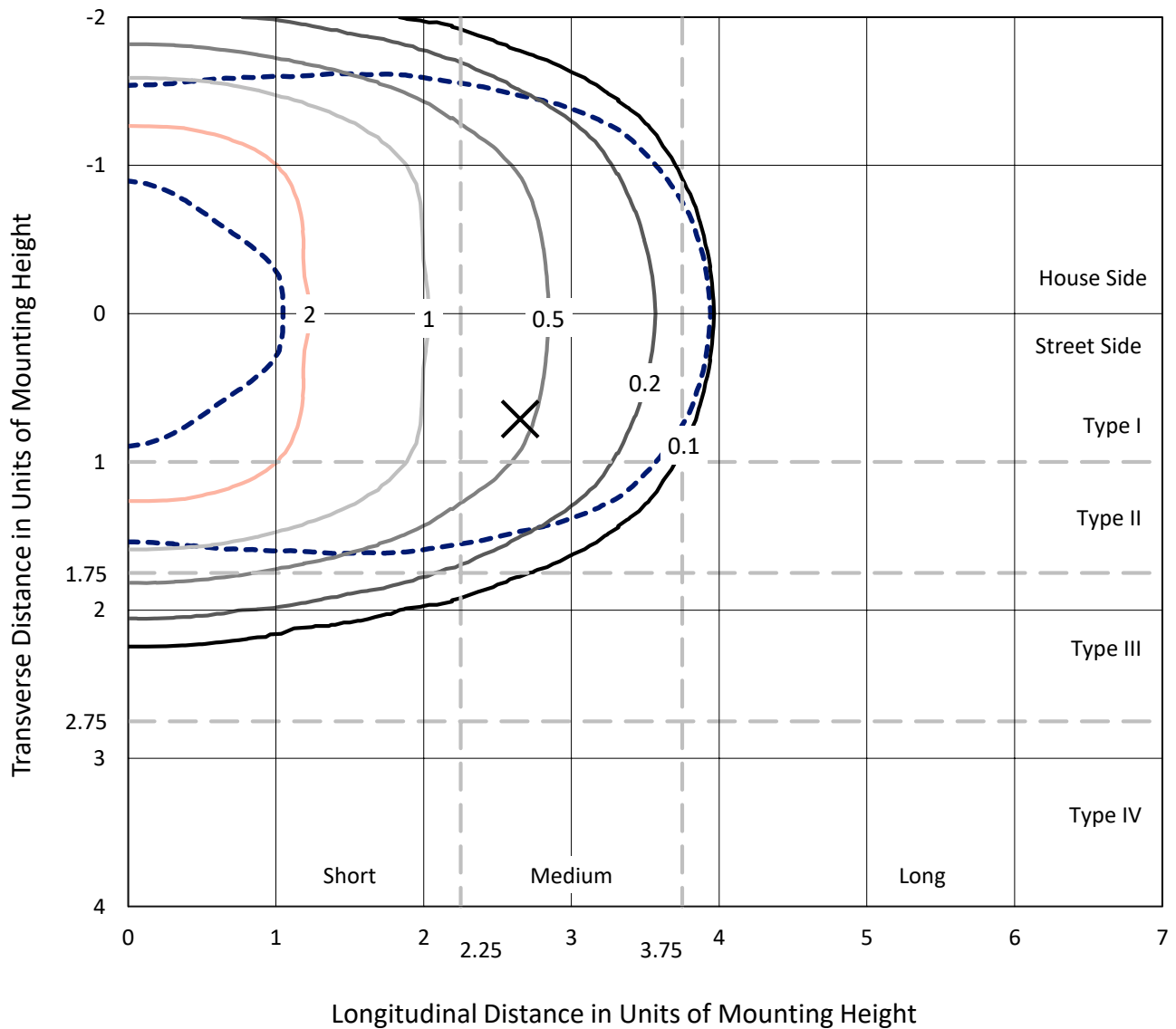
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

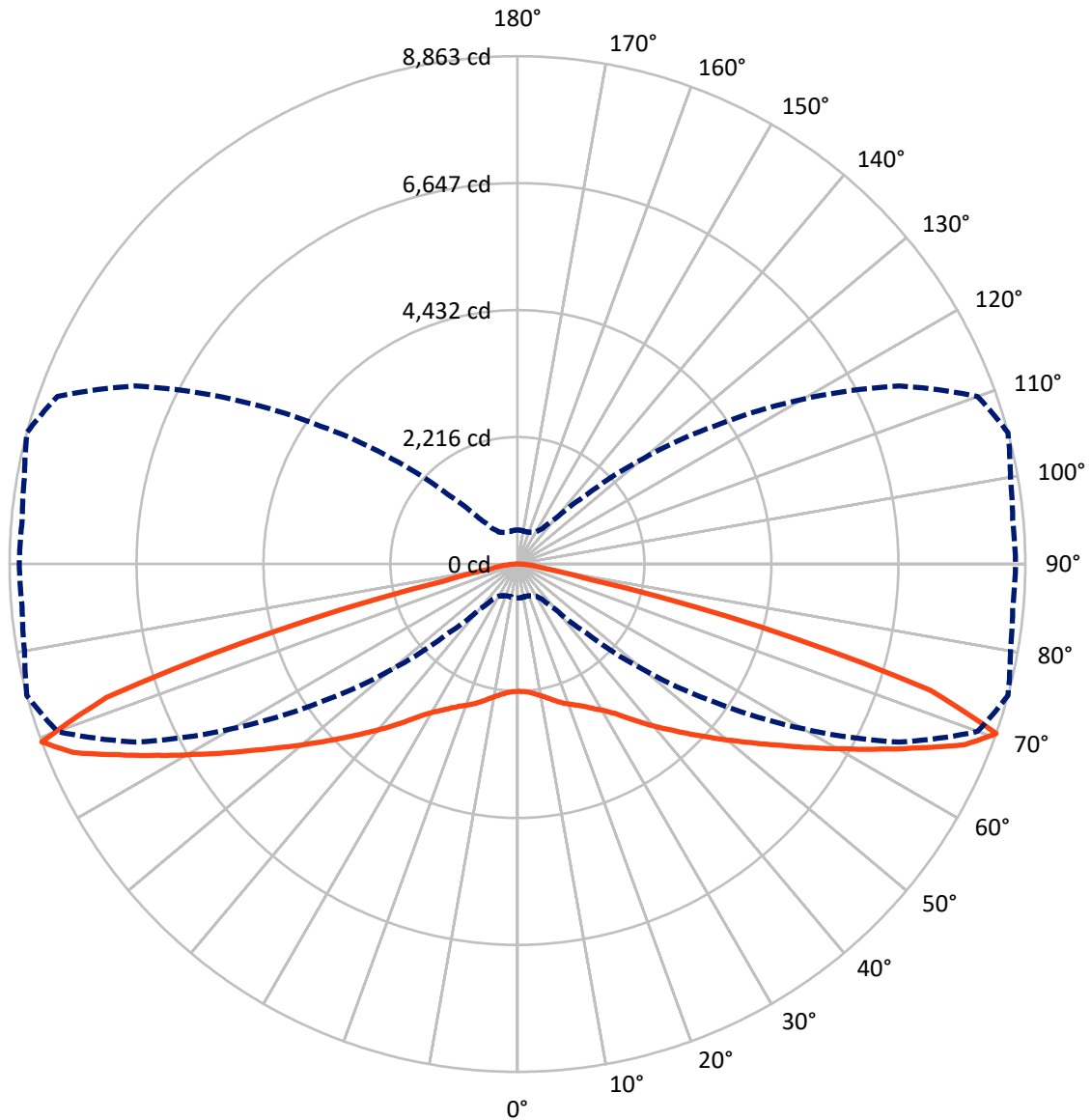
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10018.0	0.0	10018.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10018.0	0.0	10018.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20036.0	0.0	20036.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.1	1.1
10°-20°	662.3	3.3
20°-30°	1246.5	6.2
30°-40°	2207.4	11.0
40°-50°	3691.4	18.4
50°-60°	5144.0	25.7
60°-70°	4770.3	23.8
70°-80°	1901.1	9.5
80°-90°	199.8	1.0
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°	20036.0	100.0
0°-180°	20036.0	100.0



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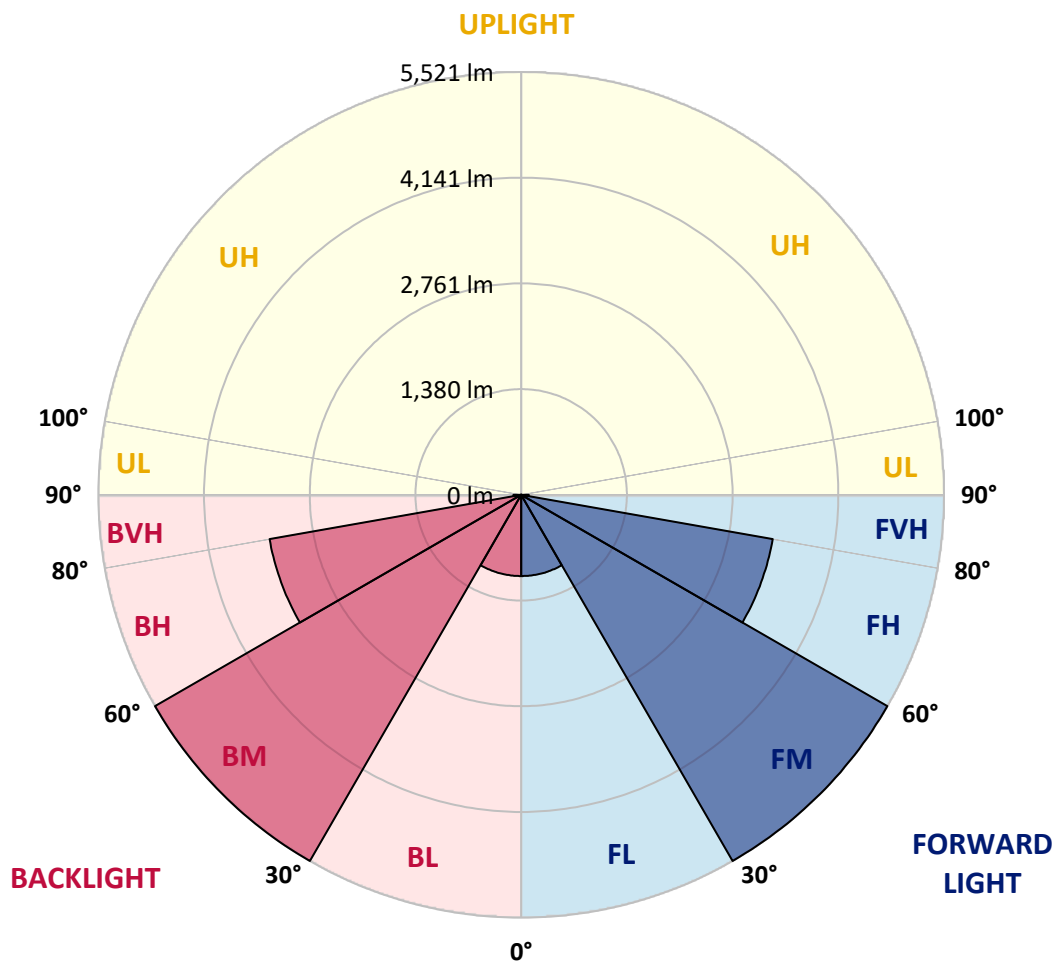
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1061.0	5.3			
FM	(30°-60°)	5521.4	27.6			
FH	(60°-80°)	3335.7	16.6			G2/5000
FVH	(80°-90°)	99.9	0.5			G1/100
BL	(0°-30°)	1061.0	5.3	B3/2500		
BM	(30°-60°)	5521.4	27.6	B4/8500		
BH	(60°-80°)	3335.7	16.6	B4/5000		G4/5000
BVH	(80°-90°)	99.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2222.5	2222.5	2222.5	2222.5	2222.5	2222.5	2222.5	2222.5	2222.5	2222.5	2222.5
2.5°	2218.7	2216.8	2218.7	2217.7	2219.6	2219.6	2221.5	2225.3	2225.3	2228.1	2227.2
5°	2196.9	2195.9	2198.8	2201.6	2204.5	2210.1	2215.8	2224.4	2231.0	2235.7	2240.5
7.5°	2154.3	2154.3	2158.1	2164.7	2171.3	2183.6	2196.9	2213.9	2231.0	2245.2	2257.5
10°	2119.2	2121.1	2125.9	2137.2	2148.6	2167.5	2185.5	2210.1	2233.8	2257.5	2276.4
12.5°	2098.4	2101.3	2109.8	2126.8	2145.8	2171.3	2198.8	2230.0	2256.5	2285.0	2303.9
15°	2105.0	2106.9	2119.2	2140.1	2164.7	2196.9	2233.8	2270.8	2302.0	2332.3	2357.9
17.5°	2142.0	2144.8	2159.0	2182.7	2208.3	2246.1	2285.9	2327.6	2366.4	2400.5	2431.7
20°	2208.3	2211.1	2229.1	2254.7	2285.0	2323.8	2363.6	2407.1	2450.7	2486.7	2521.7
22.5°	2302.0	2306.7	2323.8	2349.3	2383.4	2425.1	2472.5	2518.9	2560.5	2593.7	2624.9
25°	2425.1	2435.5	2451.6	2480.0	2516.0	2553.9	2605.0	2652.4	2692.1	2723.4	2746.1
27.5°	2599.3	2613.5	2625.9	2653.3	2688.4	2724.3	2775.5	2817.1	2855.0	2885.3	2902.4
30°	2830.4	2844.6	2856.9	2883.4	2915.6	2949.7	2998.0	3034.9	3058.6	3082.3	3081.3
32.5°	3110.7	3125.8	3130.6	3159.0	3192.1	3229.1	3272.6	3293.4	3312.4	3315.2	3298.2
35°	3424.1	3431.7	3450.6	3488.5	3526.4	3556.7	3598.4	3608.8	3608.8	3594.6	3556.7
37.5°	3767.9	3772.6	3799.1	3841.7	3880.5	3911.8	3940.2	3961.0	3950.6	3920.3	3856.9
40°	4144.7	4153.3	4191.1	4229.0	4272.6	4301.9	4332.2	4336.0	4325.6	4281.1	4194.9
42.5°	4504.6	4512.2	4550.0	4609.7	4666.5	4707.2	4735.6	4741.3	4708.2	4667.4	4560.4
45°	4814.2	4834.1	4883.4	4953.4	5035.8	5093.6	5132.4	5148.5	5119.1	5066.1	4942.1
47.5°	5059.5	5079.4	5149.4	5232.8	5335.0	5428.8	5493.2	5527.3	5519.7	5479.9	5344.5
50°	5239.4	5258.3	5334.1	5436.4	5555.7	5672.1	5782.0	5863.4	5891.8	5873.8	5749.8
52.5°	5260.2	5291.5	5380.5	5517.8	5673.1	5832.2	5988.4	6126.7	6220.4	6234.6	6142.8
55°	4969.5	5000.8	5123.9	5327.5	5558.5	5818.0	6068.0	6300.9	6485.6	6580.3	6532.0
57.5°	4283.9	4339.8	4469.5	4708.2	5048.1	5436.4	5835.0	6248.8	6624.8	6875.7	6924.0
60°	3283.0	3349.3	3480.0	3733.8	4112.5	4575.6	5107.8	5719.5	6383.3	6947.7	7284.8
62.5°	2106.0	2168.5	2305.8	2526.4	2835.1	3337.0	3908.0	4634.3	5526.3	6417.4	7220.4
65°	1082.3	1116.4	1188.4	1321.9	1562.4	1937.4	2449.7	3174.1	4194.0	5293.4	6454.3
67.5°	685.6	692.2	708.3	727.2	788.8	918.5	1157.2	1608.8	2447.8	3594.6	4953.4
70°	592.8	592.8	585.2	582.4	589.9	607.9	644.9	750.0	1033.1	1706.4	2856.9
72.5°	542.6	536.9	523.7	513.2	511.3	511.3	518.9	535.0	580.5	695.1	1118.3
75°	500.0	483.9	465.9	453.6	448.8	444.1	443.2	446.0	455.5	473.5	534.1
77.5°	447.9	427.1	406.2	393.9	388.2	381.6	375.9	369.3	364.6	370.3	396.8
80°	385.4	361.7	345.6	338.1	332.4	322.9	310.6	299.2	288.8	286.9	303.0
82.5°	310.6	283.1	284.1	286.9	276.5	263.2	250.0	237.7	219.7	210.2	219.7
85°	250.9	236.7	230.1	248.1	232.9	213.1	192.2	170.4	142.0	119.3	129.7
87.5°	97.5	97.5	145.8	224.4	201.7	164.8	141.1	120.3	74.8	57.8	58.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2222.5	2222.5	2222.5	2222.5	2222.5	2222.5	2222.5	2222.5
2.5°	2226.2	2228.1	2227.2	2226.2	2226.2	2225.3	2226.2	2226.2
5°	2243.3	2248.0	2248.0	2249.9	2249.9	2250.9	2251.8	2250.9
7.5°	2268.9	2277.4	2283.1	2289.7	2290.6	2291.6	2293.5	2291.6
10°	2294.4	2311.5	2323.8	2336.1	2341.8	2343.7	2345.6	2345.6
12.5°	2326.6	2350.3	2372.1	2393.9	2404.3	2410.0	2410.0	2413.7
15°	2379.7	2403.3	2428.9	2458.2	2476.2	2485.7	2488.5	2488.5
17.5°	2454.5	2475.3	2497.1	2525.5	2548.2	2560.5	2563.4	2562.4
20°	2541.6	2561.5	2573.8	2591.8	2611.7	2625.9	2629.6	2629.6
22.5°	2641.0	2652.4	2654.3	2659.9	2676.0	2695.0	2703.5	2705.4
25°	2750.8	2753.7	2746.1	2746.1	2756.5	2774.5	2783.0	2784.0
27.5°	2892.9	2878.7	2859.7	2853.1	2859.7	2880.6	2891.0	2894.8
30°	3070.0	3035.9	2992.3	2968.6	2964.9	2992.3	3011.3	3014.1
32.5°	3272.6	3223.4	3165.6	3117.3	3105.0	3122.0	3144.8	3143.8
35°	3513.1	3454.4	3384.4	3322.8	3294.4	3311.4	3343.6	3347.4
37.5°	3790.6	3713.9	3633.4	3555.7	3511.2	3516.0	3550.1	3561.4
40°	4100.2	4000.8	3899.5	3795.3	3731.9	3719.6	3761.2	3767.9
42.5°	4431.7	4303.8	4176.0	4047.2	3965.8	3946.8	3995.1	3992.3
45°	4784.9	4622.0	4472.4	4330.3	4233.8	4205.3	4245.1	4245.1
47.5°	5164.6	4963.8	4785.8	4624.8	4519.7	4479.0	4516.9	4519.7
50°	5567.0	5354.0	5144.7	4965.7	4839.8	4787.7	4837.0	4844.5
52.5°	5967.6	5760.2	5549.0	5344.5	5192.1	5128.6	5185.4	5210.0
55°	6373.8	6170.2	5968.5	5768.7	5587.9	5513.1	5573.7	5604.9
57.5°	6802.8	6614.3	6422.1	6220.4	6046.2	5929.7	5994.1	6035.8
60°	7305.6	7144.6	6944.8	6722.3	6546.2	6427.8	6464.7	6501.7
62.5°	7703.3	7765.8	7596.3	7338.8	7112.4	6960.9	6996.9	7035.7
65°	7511.1	8152.2	8302.7	8042.3	7728.9	7493.1	7478.0	7497.8
67.5°	6278.2	7523.4	8431.5	8679.6	8417.3	8089.7	8029.1	8058.4
70°	4199.7	5750.7	7353.0	8546.1	8863.3	8736.4	8676.8	8694.8
72.5°	2017.0	3349.3	4988.5	6574.6	7540.5	7983.6	8125.7	8194.8
75°	737.7	1329.5	2404.3	3623.0	4373.9	5063.3	5513.1	5696.8
77.5°	445.1	536.9	768.0	1156.2	1309.6	1465.9	1405.3	1435.6
80°	329.5	372.1	421.4	473.5	490.5	490.5	471.6	456.4
82.5°	231.1	258.5	282.2	310.6	318.2	304.0	250.0	198.9
85°	148.7	161.0	171.4	189.4	184.7	176.1	118.4	105.1
87.5°	68.2	77.6	81.4	90.0	86.2	82.4	58.7	49.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)