

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: P300680

Luminaire Tested: **GLNA-AF-05-LED-E1-RW-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300680
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: GLNA-AF-05-LED-E1-RW-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19312 lumens
Efficiency: N/A
Efficacy: 119.2 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

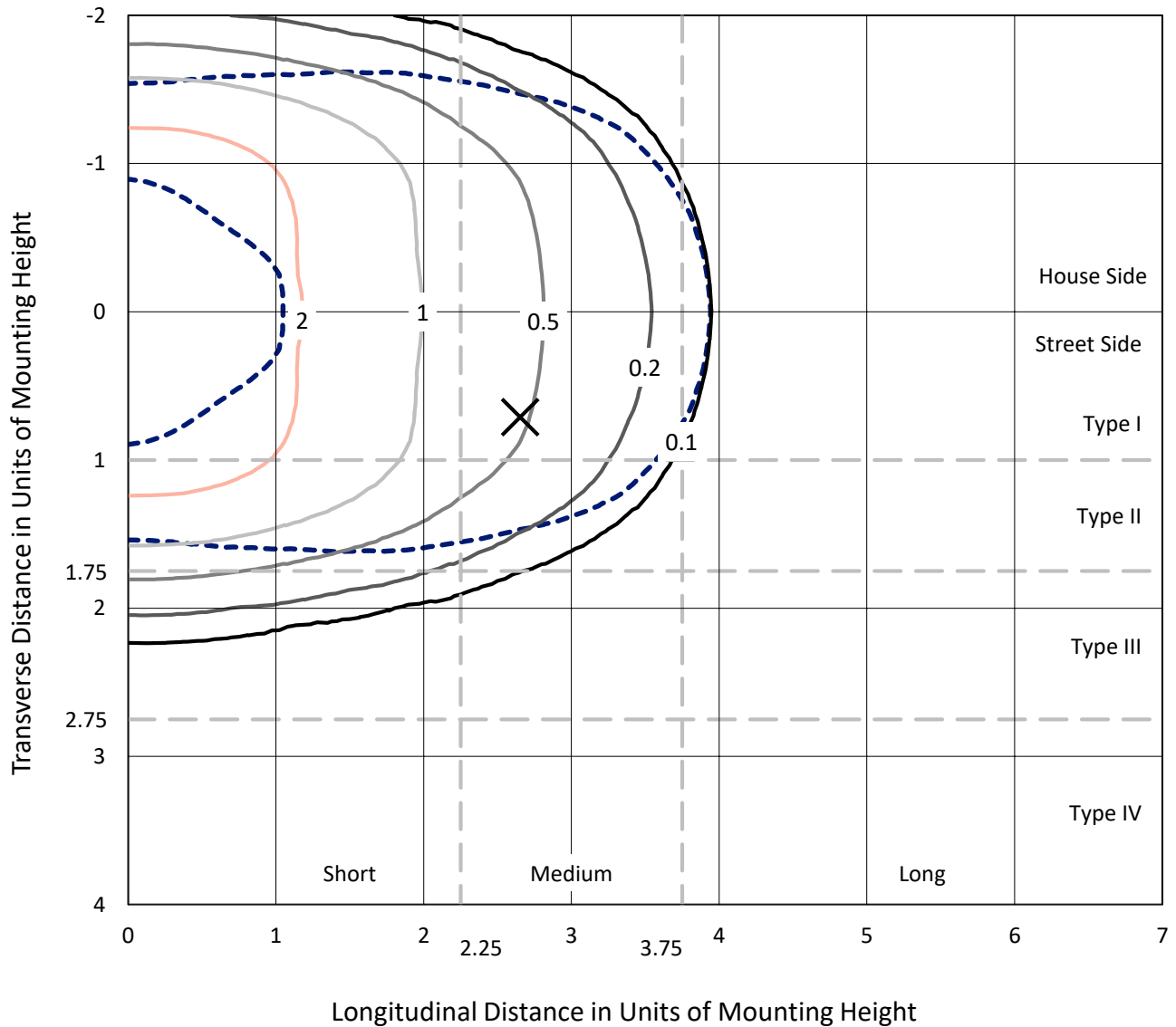
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

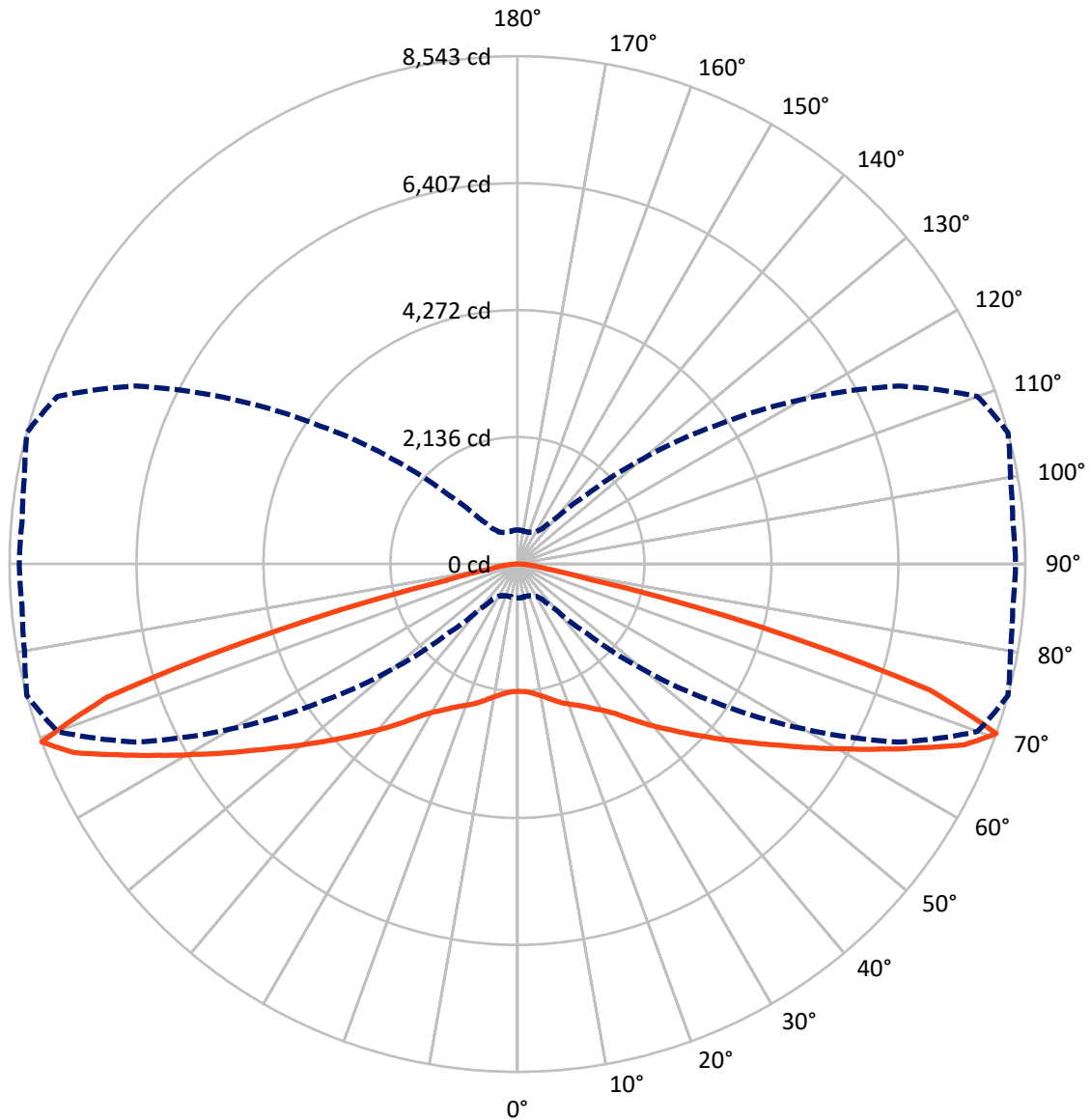
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	9656.0	0.0	9656.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9656.0	0.0	9656.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19312.0	0.0	19312.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.4	1.1
10°-20°	638.4	3.3
20°-30°	1201.5	6.2
30°-40°	2127.6	11.0
40°-50°	3558.0	18.4
50°-60°	4958.1	25.7
60°-70°	4597.9	23.8
70°-80°	1832.4	9.5
80°-90°	192.6	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°	19312.0	100.0
0°-180°	19312.0	100.0

Coefficient of Utilization



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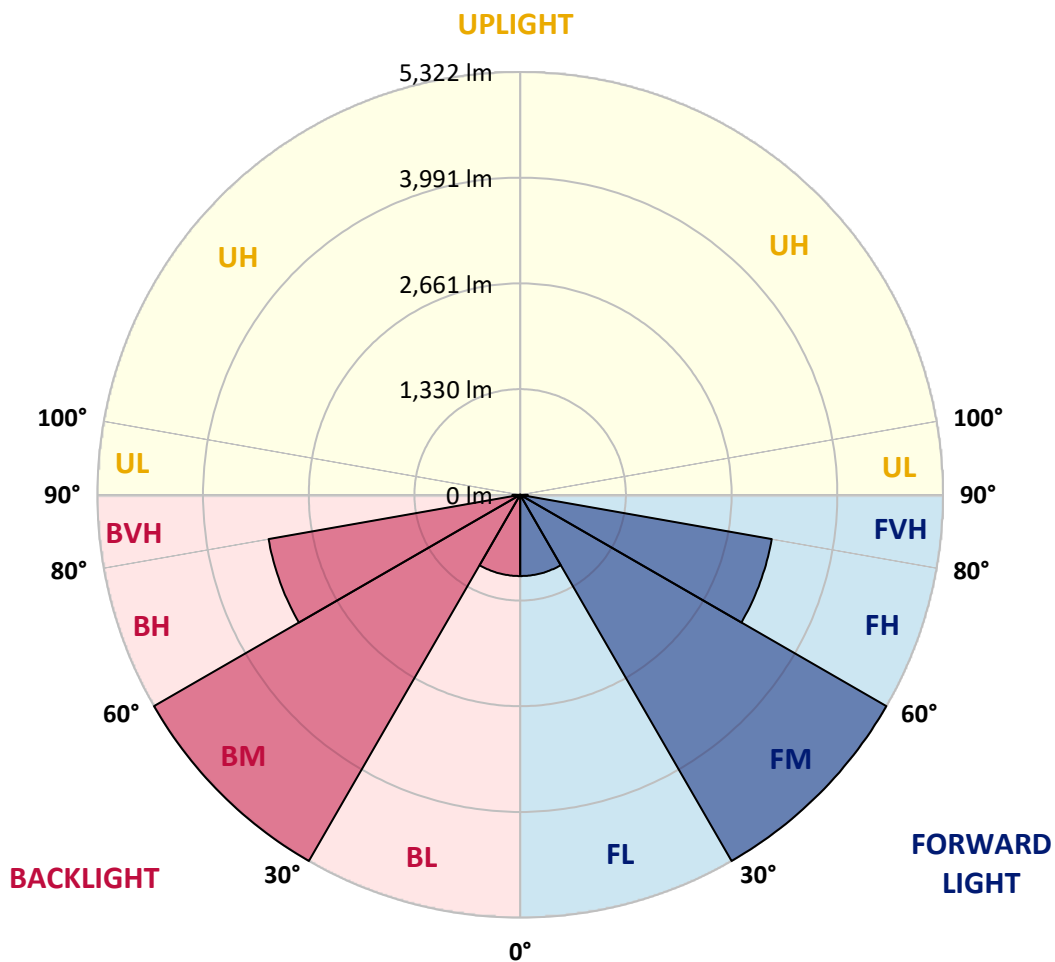
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1022.6	5.3			
FM	(30°-60°)	5321.9	27.6			
FH	(60°-80°)	3215.1	16.6			G2/5000
FVH	(80°-90°)	96.3	0.5			G1/100
BL	(0°-30°)	1022.6	5.3	B3/2500		
BM	(30°-60°)	5321.9	27.6	B4/8500		
BH	(60°-80°)	3215.1	16.6	B4/5000		G4/5000
BVH	(80°-90°)	96.3	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°	2142.1	2142.1	2142.1	2142.1	2142.1	2142.1	2142.1	2142.1	2142.1	2142.1	2142.1
2.5°	2138.5	2136.7	2138.5	2137.6	2139.4	2139.4	2141.2	2144.9	2144.9	2147.6	2146.7
5°	2117.5	2116.6	2119.3	2122.1	2124.8	2130.3	2135.8	2144.0	2150.4	2154.9	2159.5
7.5°	2076.4	2076.4	2080.1	2086.5	2092.9	2104.7	2117.5	2133.9	2150.4	2164.0	2175.9
10°	2042.7	2044.5	2049.0	2060.0	2071.0	2089.2	2106.5	2130.3	2153.1	2175.9	2194.2
12.5°	2022.6	2025.3	2033.5	2050.0	2068.2	2092.9	2119.3	2149.4	2175.0	2202.4	2220.6
15°	2029.0	2030.8	2042.7	2062.7	2086.5	2117.5	2153.1	2188.7	2218.8	2248.0	2272.7
17.5°	2064.6	2067.3	2081.0	2103.8	2128.5	2165.0	2203.3	2243.5	2280.9	2313.7	2343.9
20°	2128.5	2131.2	2148.5	2173.2	2202.4	2239.8	2278.1	2320.1	2362.1	2396.8	2430.6
22.5°	2218.8	2223.4	2239.8	2264.4	2297.3	2337.5	2383.1	2427.8	2468.0	2499.9	2530.0
25°	2337.5	2347.5	2363.0	2390.4	2425.1	2461.6	2510.9	2556.5	2594.9	2625.0	2646.9
27.5°	2505.4	2519.1	2531.0	2557.4	2591.2	2625.9	2675.2	2715.3	2751.8	2781.0	2797.5
30°	2728.1	2741.8	2753.7	2779.2	2810.3	2843.1	2889.7	2925.3	2948.1	2970.9	2970.0
32.5°	2998.3	3012.9	3017.4	3044.8	3076.8	3112.4	3154.3	3174.4	3192.7	3195.4	3179.0
35°	3300.4	3307.7	3325.9	3362.4	3399.0	3428.2	3468.3	3478.4	3478.4	3464.7	3428.2
37.5°	3631.7	3636.3	3661.8	3702.9	3740.3	3770.4	3797.8	3817.9	3807.8	3778.6	3717.5
40°	3995.0	4003.2	4039.7	4076.2	4118.2	4146.5	4175.7	4179.3	4169.3	4126.4	4043.3
42.5°	4341.8	4349.1	4385.6	4443.1	4497.9	4537.1	4564.5	4570.0	4538.0	4498.8	4395.6
45°	4640.2	4659.4	4706.9	4774.4	4853.8	4909.5	4946.9	4962.4	4934.1	4883.0	4763.5
47.5°	4876.6	4895.8	4963.3	5043.7	5142.2	5232.6	5294.7	5327.5	5320.2	5281.9	5151.4
50°	5050.1	5068.3	5141.3	5239.9	5354.9	5467.2	5573.0	5651.5	5678.9	5661.6	5542.0
52.5°	5070.1	5100.3	5186.1	5318.4	5468.1	5621.4	5772.0	5905.3	5995.6	6009.3	5920.8
55°	4789.9	4820.1	4938.7	5134.9	5357.6	5607.7	5848.7	6073.2	6251.2	6342.5	6295.9
57.5°	4129.1	4183.0	4308.0	4538.0	4865.7	5239.9	5624.2	6023.0	6385.4	6627.2	6673.8
60°	3164.4	3228.3	3354.2	3598.8	3963.9	4410.2	4923.2	5512.8	6152.6	6696.6	7021.5
62.5°	2029.9	2090.1	2222.5	2435.1	2732.7	3216.4	3766.8	4466.8	5326.6	6185.5	6959.5
65°	1043.2	1076.1	1145.5	1274.2	1506.0	1867.4	2361.2	3059.4	4042.4	5102.1	6221.1
67.5°	660.8	667.2	682.7	701.0	760.3	885.3	1115.3	1550.7	2359.4	3464.7	4774.4
70°	571.4	571.4	564.1	561.3	568.6	586.0	621.6	722.9	995.8	1644.7	2753.7
72.5°	523.0	517.5	504.7	494.7	492.9	492.9	500.2	515.7	559.5	669.9	1077.9
75°	481.9	466.4	449.1	437.2	432.6	428.1	427.2	429.9	439.0	456.4	514.8
77.5°	431.7	411.6	391.6	379.7	374.2	367.8	362.3	356.0	351.4	356.9	382.4
80°	371.5	348.7	333.1	325.8	320.4	311.2	299.4	288.4	278.4	276.6	292.1
82.5°	299.4	272.9	273.8	276.6	266.5	253.7	241.0	229.1	211.8	202.6	211.8
85°	241.9	228.2	221.8	239.1	224.5	205.4	185.3	164.3	136.9	115.0	125.0
87.5°	94.0	94.0	140.6	216.3	194.4	158.8	136.0	115.9	72.1	55.7	56.6
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°	2142.1	2142.1	2142.1	2142.1	2142.1	2142.1	2142.1	2142.1
2.5°	2145.8	2147.6	2146.7	2145.8	2145.8	2144.9	2145.8	2145.8
5°	2162.2	2166.8	2166.8	2168.6	2168.6	2169.5	2170.4	2169.5
7.5°	2186.9	2195.1	2200.6	2206.9	2207.9	2208.8	2210.6	2208.8
10°	2211.5	2227.9	2239.8	2251.7	2257.1	2259.0	2260.8	2260.8
12.5°	2242.5	2265.4	2286.4	2307.3	2317.4	2322.9	2322.9	2326.5
15°	2293.7	2316.5	2341.1	2369.4	2386.8	2395.9	2398.6	2398.6
17.5°	2365.8	2385.8	2406.8	2434.2	2456.1	2468.0	2470.7	2469.8
20°	2449.7	2468.9	2480.8	2498.1	2517.3	2531.0	2534.6	2534.6
22.5°	2545.6	2556.5	2558.3	2563.8	2579.3	2597.6	2605.8	2607.6
25°	2651.4	2654.2	2646.9	2646.9	2656.9	2674.3	2682.5	2683.4
27.5°	2788.3	2774.7	2756.4	2750.0	2756.4	2776.5	2786.5	2790.2
30°	2959.0	2926.2	2884.2	2861.4	2857.7	2884.2	2902.4	2905.2
32.5°	3154.3	3106.9	3051.2	3004.7	2992.8	3009.2	3031.1	3030.2
35°	3386.2	3329.6	3262.0	3202.7	3175.3	3191.8	3222.8	3226.4
37.5°	3653.6	3579.7	3502.1	3427.2	3384.3	3388.9	3421.8	3432.7
40°	3952.1	3856.2	3758.6	3658.2	3597.0	3585.1	3625.3	3631.7
42.5°	4271.5	4148.3	4025.1	3900.9	3822.5	3804.2	3850.7	3848.0
45°	4612.0	4455.0	4310.8	4173.8	4080.8	4053.4	4091.7	4091.7
47.5°	4978.0	4784.5	4612.9	4457.7	4356.4	4317.1	4353.7	4356.4
50°	5365.9	5160.5	4958.8	4786.3	4664.9	4614.7	4662.2	4669.5
52.5°	5751.9	5552.0	5348.5	5151.4	5004.4	4943.3	4998.0	5021.8
55°	6143.5	5947.3	5752.8	5560.3	5385.9	5313.8	5372.2	5402.4
57.5°	6556.9	6375.3	6190.0	5995.6	5827.7	5715.4	5777.5	5817.6
60°	7041.6	6886.4	6693.9	6479.4	6309.6	6195.5	6231.1	6266.7
62.5°	7424.9	7485.2	7321.8	7073.5	6855.4	6709.4	6744.1	6781.5
65°	7239.7	7857.6	8002.7	7751.7	7449.6	7222.3	7207.7	7226.9
67.5°	6051.3	7251.5	8126.8	8366.0	8113.1	7797.3	7738.9	7767.2
70°	4047.9	5542.9	7087.2	8237.3	8543.0	8420.7	8363.2	8380.6
72.5°	1944.1	3228.3	4808.2	6337.0	7268.0	7695.1	7832.0	7898.6
75°	711.0	1281.5	2317.4	3492.1	4215.8	4880.3	5313.8	5490.9
77.5°	429.0	517.5	740.2	1114.4	1262.3	1412.9	1354.5	1383.7
80°	317.6	358.7	406.2	456.4	472.8	472.8	454.5	439.9
82.5°	222.7	249.2	272.0	299.4	306.7	293.0	241.0	191.7
85°	143.3	155.2	165.2	182.5	178.0	169.8	114.1	101.3
87.5°	65.7	74.8	78.5	86.7	83.1	79.4	56.6	47.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)