

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: P190875

Luminaire Tested: **GLEON-AF-07-LED-E1-5WQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-5WQ-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29889.6 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

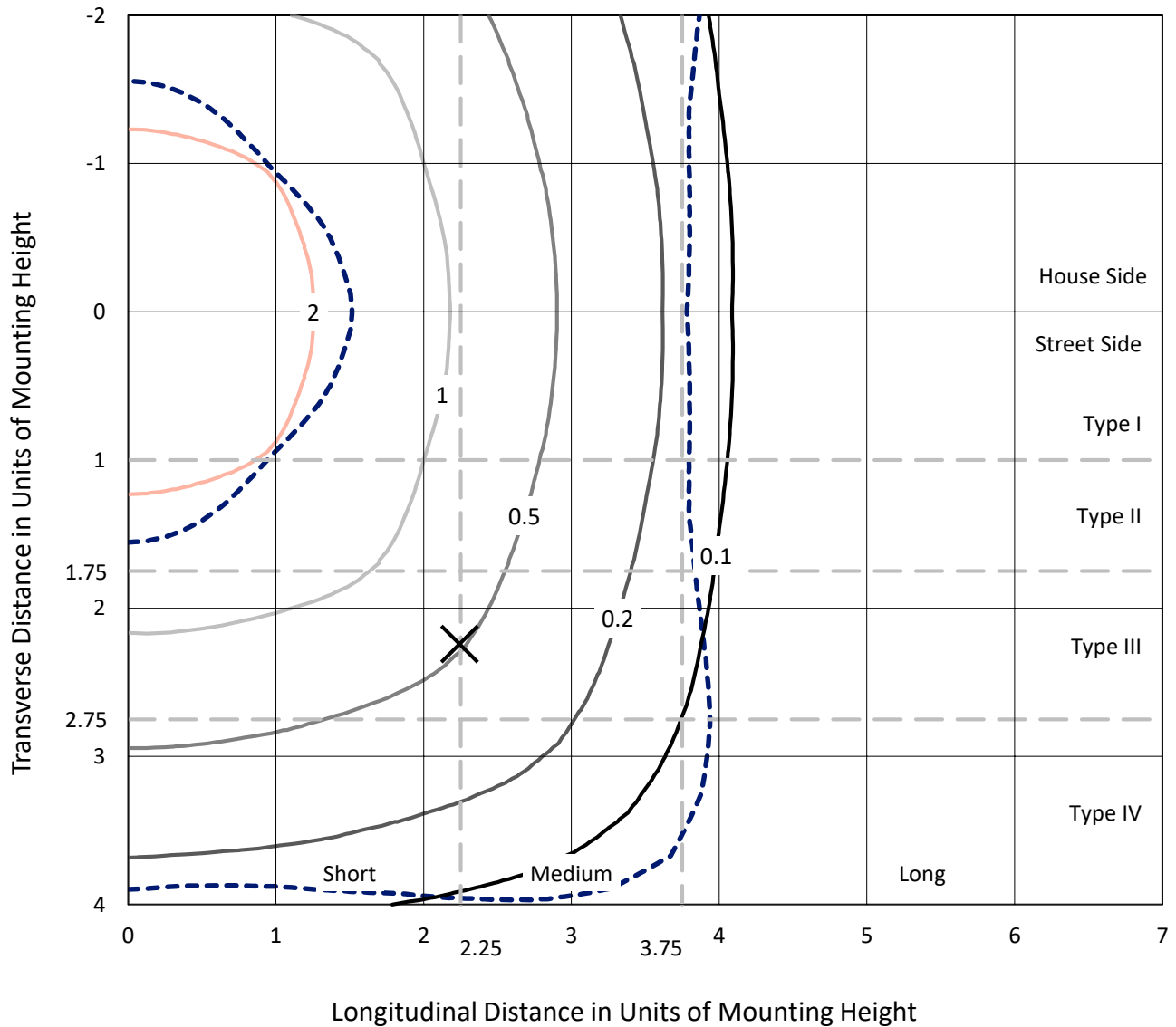
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

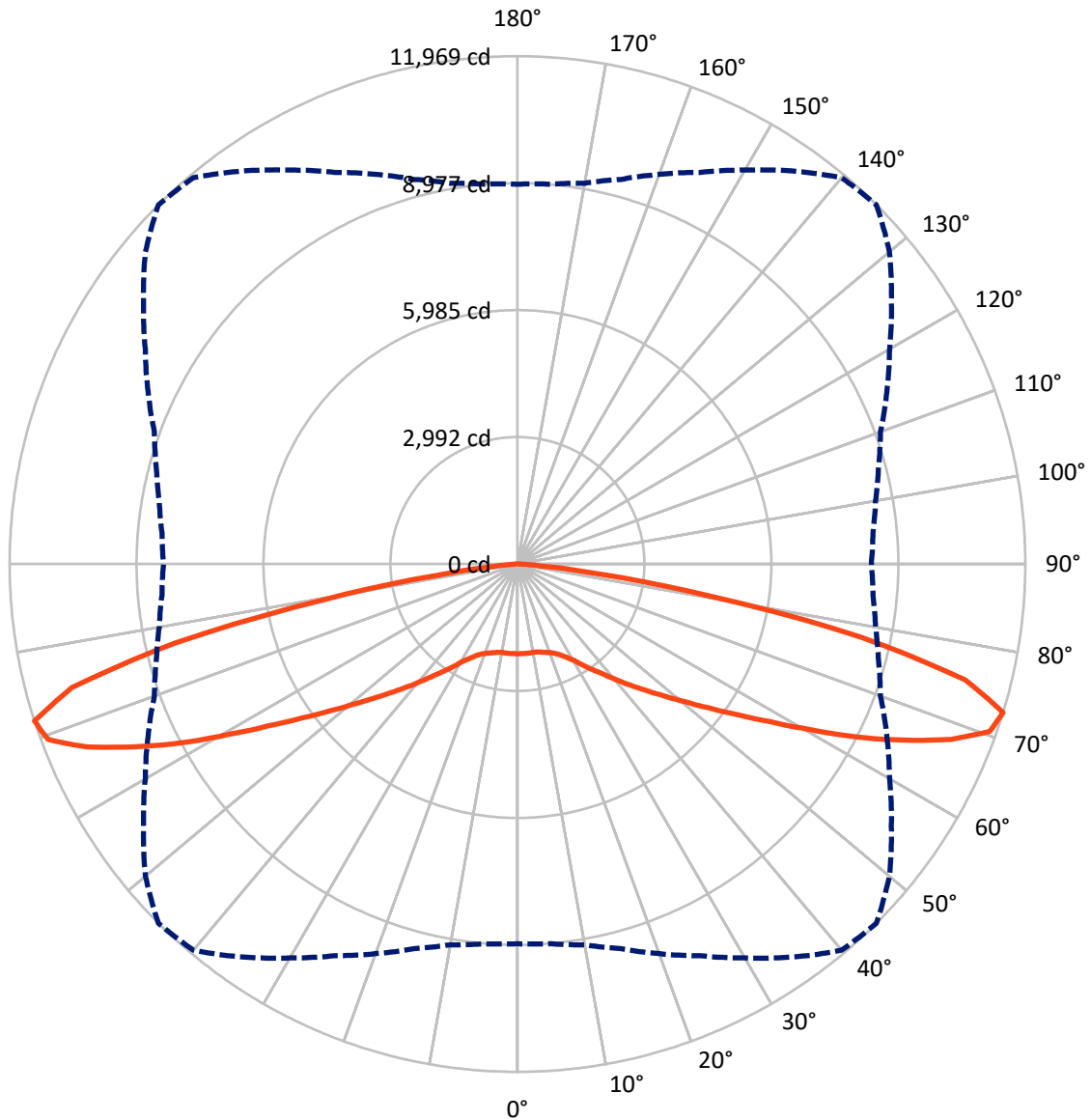
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14944.8	0.0	14944.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14944.8	0.0	14944.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	29889.6	0.0	29889.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.1	0.7
10°-20°	613.8	2.1
20°-30°	1121.7	3.8
30°-40°	1934.1	6.5
40°-50°	3306.3	11.1
50°-60°	5359.1	17.9
60°-70°	8890.6	29.7
70°-80°	7830.5	26.2
80°-90°	631.4	2.1
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°	29889.6	100.0
0°-180°	29889.6	100.0



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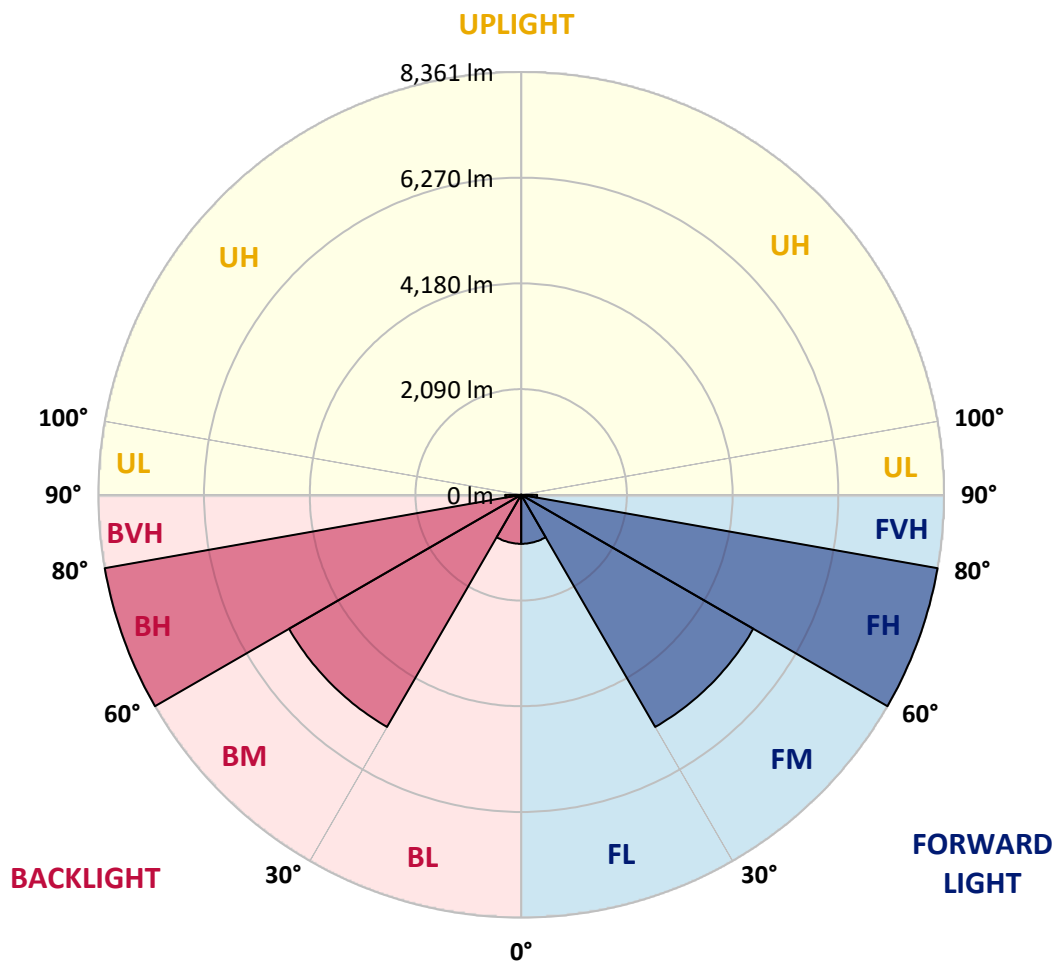
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	968.9	3.2			
FM	(30°-60°)	5299.7	17.7			
FH	(60°-80°)	8360.5	28.0			G4/12000
FVH	(80°-90°)	315.7	1.1			G3/500
BL	(0°-30°)	968.9	3.2	B2/1000		
BM	(30°-60°)	5299.7	17.7	B4/8500		
BH	(60°-80°)	8360.5	28.0	B5		G4/12000
BVH	(80°-90°)	315.7	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7
2.5°	2116.7	2118.0	2119.3	2118.0	2118.0	2116.7	2115.3	2116.7	2115.3	2112.5	2113.9
5°	2123.5	2126.2	2126.2	2123.5	2124.9	2123.5	2120.8	2122.1	2119.3	2115.3	2115.3
7.5°	2131.7	2133.1	2133.1	2130.4	2131.7	2129.0	2126.2	2124.9	2122.1	2116.7	2112.5
10°	2144.1	2145.4	2144.1	2141.3	2141.3	2137.3	2130.4	2127.6	2122.1	2113.9	2109.8
12.5°	2157.8	2159.1	2157.8	2155.1	2153.6	2146.8	2141.3	2137.3	2133.1	2126.2	2119.3
15°	2176.9	2179.7	2176.9	2171.5	2167.3	2161.9	2159.1	2160.5	2161.9	2156.4	2149.5
17.5°	2212.6	2214.0	2209.9	2197.5	2192.1	2186.6	2186.6	2189.3	2193.4	2190.6	2183.8
20°	2278.4	2274.3	2264.7	2249.7	2242.8	2233.2	2231.8	2233.2	2233.2	2231.8	2226.4
22.5°	2360.7	2357.9	2345.6	2326.4	2316.8	2311.4	2303.1	2296.2	2294.9	2290.8	2285.3
25°	2459.4	2458.0	2442.9	2426.4	2419.6	2412.7	2405.9	2396.3	2388.1	2378.5	2373.0
27.5°	2585.5	2580.0	2558.1	2549.8	2540.3	2536.1	2526.6	2515.5	2508.7	2496.4	2489.6
30°	2723.9	2723.9	2706.1	2703.4	2703.4	2693.8	2682.8	2663.7	2651.3	2638.9	2634.8
32.5°	2862.4	2863.8	2846.0	2851.5	2855.6	2862.4	2865.2	2858.3	2850.0	2848.7	2840.4
35°	3062.5	3057.1	3039.3	3043.4	3041.9	3040.6	3040.6	3055.7	3058.4	3061.2	3044.7
37.5°	3310.7	3310.7	3292.9	3292.9	3284.6	3276.4	3265.5	3275.1	3290.1	3294.2	3283.3
40°	3594.4	3604.1	3582.2	3580.7	3583.5	3557.4	3545.1	3560.2	3569.8	3586.3	3573.9
42.5°	3928.9	3922.1	3900.2	3897.4	3882.3	3874.1	3863.2	3875.4	3890.6	3901.5	3905.6
45°	4249.7	4244.2	4219.6	4219.6	4204.5	4197.7	4203.1	4223.7	4230.5	4245.7	4260.7
47.5°	4566.5	4559.6	4543.1	4550.0	4551.3	4563.7	4581.5	4600.7	4619.9	4640.4	4647.3
50°	4889.9	4891.3	4873.5	4889.9	4910.5	4944.7	4992.7	5024.3	5064.0	5090.1	5098.3
52.5°	5184.7	5190.1	5209.4	5247.7	5288.9	5356.1	5438.3	5515.0	5580.9	5624.7	5622.0
55°	5538.4	5546.6	5593.2	5659.1	5726.2	5827.6	5949.7	6085.3	6195.0	6258.1	6218.3
57.5°	5990.8	6008.6	6060.7	6149.8	6249.8	6381.5	6548.7	6753.0	6923.0	7007.9	6943.6
60°	6611.7	6622.8	6685.8	6784.5	6905.1	7068.3	7291.7	7565.9	7805.8	7918.3	7844.2
62.5°	7430.2	7450.8	7501.5	7601.5	7724.9	7910.0	8182.8	8525.6	8824.4	8980.7	8813.4
65°	8407.6	8473.4	8516.0	8617.4	8732.5	8928.6	9213.7	9581.2	9902.0	10004.8	9811.4
67.5°	9375.4	9433.0	9507.1	9623.6	9740.1	9960.9	10225.4	10581.9	10934.2	11027.4	10727.2
70°	9799.1	9832.0	9947.2	10106.1	10329.7	10590.1	10895.8	11296.1	11732.0	11808.8	11427.7
72.5°	8950.5	8983.5	9112.2	9382.3	9771.6	10185.7	10719.0	11307.1	11882.8	11969.2	11444.2
75°	6769.5	6716.0	6906.6	7264.3	7789.4	8366.5	9112.2	9955.4	10787.5	10895.8	10269.3
77.5°	3498.5	3491.6	3635.6	4079.7	4706.3	5362.9	6184.0	7136.8	7951.1	8280.2	7770.2
80°	985.7	996.7	1065.2	1285.8	1652.0	2126.2	2767.8	3660.2	4326.5	4666.5	4381.4
82.5°	386.6	416.8	442.8	484.0	531.9	601.8	803.3	1195.4	1604.0	1916.5	1569.6
85°	138.5	148.0	209.7	248.2	252.3	266.0	303.0	353.7	426.4	508.6	418.1
87.5°	52.1	57.6	67.2	111.1	109.7	100.0	122.0	127.5	96.0	87.8	108.3
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°	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7
2.5°	2111.2	2112.5	2112.5	2113.9	2115.3	2115.3	2118.0	2118.0
5°	2112.5	2112.5	2109.8	2111.2	2109.8	2109.8	2111.2	2111.2
7.5°	2109.8	2108.4	2105.6	2104.3	2101.6	2101.6	2101.6	2101.6
10°	2105.6	2104.3	2101.6	2100.2	2098.8	2098.8	2098.8	2098.8
12.5°	2116.7	2112.5	2109.8	2108.4	2108.4	2108.4	2108.4	2108.4
15°	2145.4	2135.8	2129.0	2129.0	2130.4	2133.1	2133.1	2135.8
17.5°	2181.0	2170.1	2163.2	2157.8	2160.5	2164.7	2167.3	2170.1
20°	2223.6	2218.1	2208.4	2203.0	2203.0	2208.4	2211.2	2212.6
22.5°	2282.5	2278.4	2274.3	2267.5	2267.5	2270.2	2275.7	2275.7
25°	2370.3	2367.5	2364.8	2359.3	2357.9	2357.9	2360.7	2363.4
27.5°	2479.9	2481.3	2478.6	2477.2	2473.1	2471.8	2475.8	2474.4
30°	2626.6	2633.5	2640.3	2634.8	2628.0	2623.9	2619.8	2614.3
32.5°	2825.4	2817.2	2811.7	2802.1	2789.8	2778.7	2770.6	2760.9
35°	3013.2	2999.5	2994.0	3002.3	3000.8	2994.0	2984.5	2976.2
37.5°	3243.5	3240.8	3243.5	3258.6	3255.8	3262.7	3243.5	3242.1
40°	3534.2	3536.9	3556.1	3573.9	3583.5	3593.1	3582.2	3571.1
42.5°	3871.4	3870.0	3876.9	3901.5	3918.0	3928.9	3905.6	3902.9
45°	4227.9	4218.2	4223.7	4244.2	4260.7	4273.1	4247.0	4247.0
47.5°	4619.9	4603.5	4585.6	4608.9	4618.5	4626.7	4606.1	4599.3
50°	5057.2	5022.9	4984.5	4994.1	4994.1	4991.4	4965.3	4964.0
52.5°	5558.9	5495.9	5425.9	5400.0	5384.8	5368.3	5323.1	5301.2
55°	6136.1	6041.4	5931.8	5864.7	5829.0	5783.8	5708.4	5687.8
57.5°	6810.6	6662.5	6473.3	6391.1	6311.6	6237.5	6153.9	6130.6
60°	7609.8	7391.8	7140.9	6988.8	6902.4	6831.2	6744.7	6740.6
62.5°	8500.8	8156.8	7873.0	7735.9	7672.8	7609.8	7527.5	7538.5
65°	9407.1	9047.9	8781.9	8670.8	8611.9	8559.8	8477.6	8489.9
67.5°	10300.8	9970.5	9678.4	9564.7	9498.9	9433.0	9359.1	9371.4
70°	10942.4	10532.5	10203.5	9951.3	9793.6	9615.4	9500.2	9471.5
72.5°	10758.7	10126.7	9604.4	9104.1	8810.7	8572.1	8410.4	8340.4
75°	9311.1	8447.4	7775.7	7161.5	6816.0	6535.0	6330.7	6203.3
77.5°	6914.7	5944.2	5150.5	4443.1	3883.7	3508.1	3243.5	3072.1
80°	3785.0	2878.9	2104.3	1479.2	1087.1	903.4	797.9	747.2
82.5°	1179.0	760.9	560.7	484.0	449.7	430.5	399.0	348.2
85°	375.6	329.0	305.7	292.0	278.2	242.6	167.3	152.2
87.5°	145.4	149.5	148.0	139.8	142.6	102.8	82.2	72.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)