

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: P269292

Luminaire Tested: **GLEON-AF-05-LED-E1-5WQ-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269292  
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-05-LED-E1-5WQ-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29865.5 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 320  
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

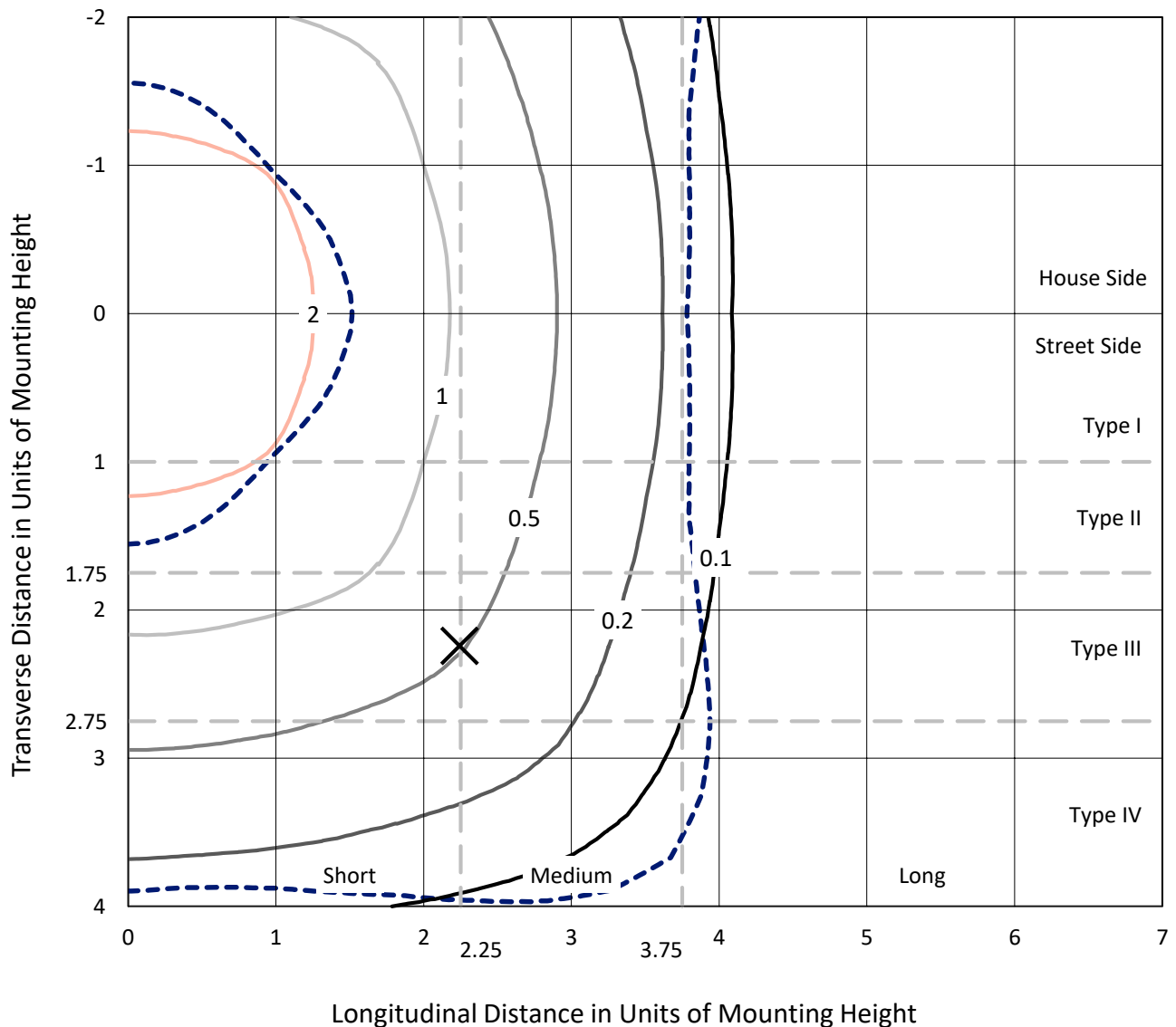


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

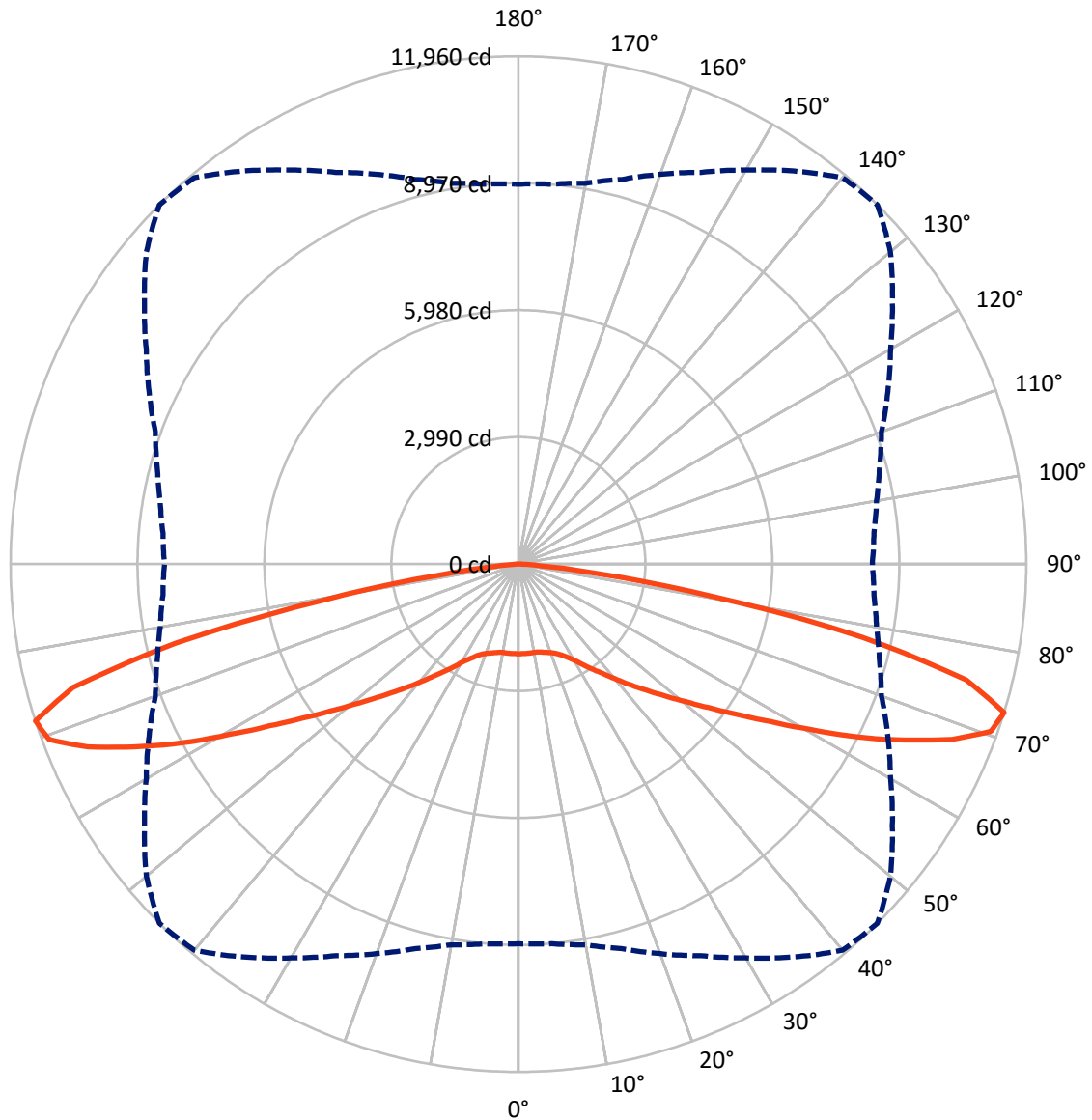


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type V - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	14932.8	0.0	14932.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14932.8	0.0	14932.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29865.5	0.0	29865.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.0	0.7
10°-20°	613.4	2.1
20°-30°	1120.8	3.8
30°-40°	1932.5	6.5
40°-50°	3303.6	11.1
50°-60°	5354.8	17.9
60°-70°	8883.4	29.7
70°-80°	7824.2	26.2
80°-90°	630.8	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°	29865.5	100.0
0°-180°	29865.5	100.0



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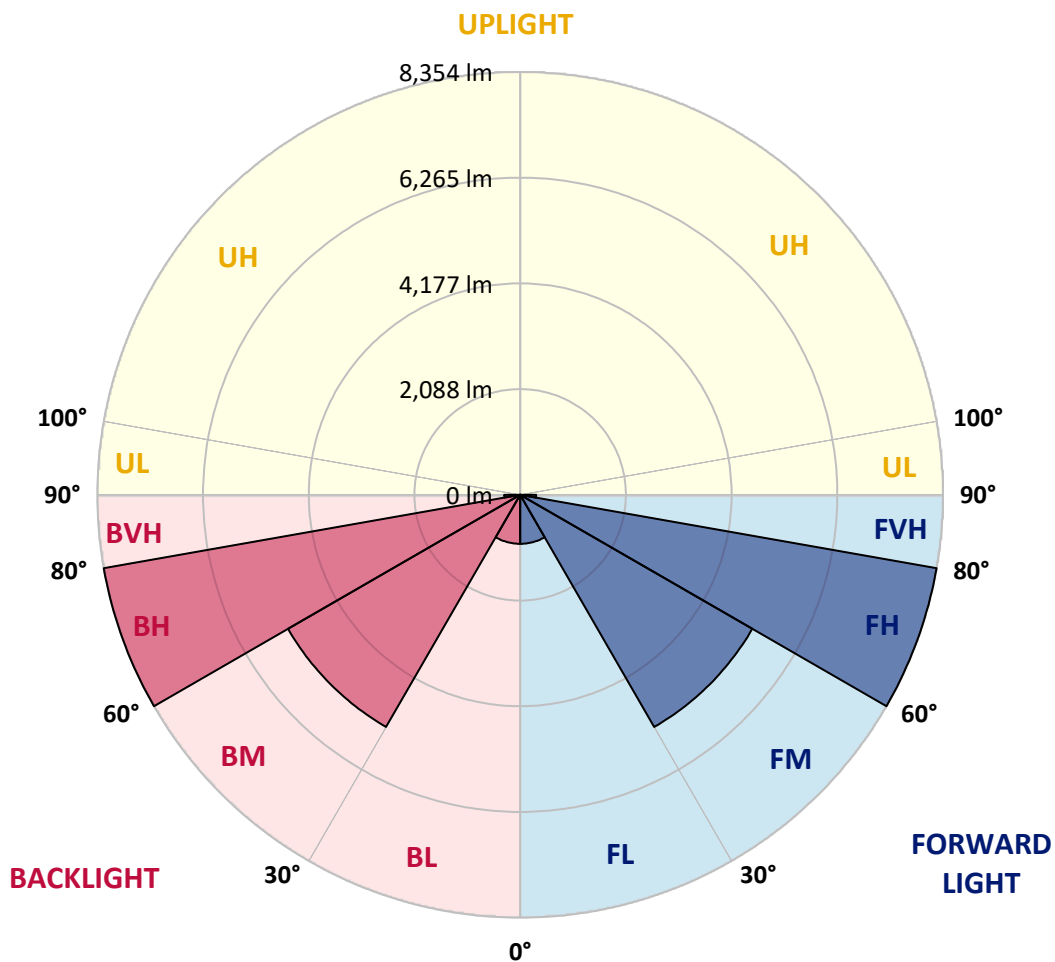
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	968.1	3.2			
FM	(30°-60°)	5295.5	17.7			
FH	(60°-80°)	8353.8	28.0			G4/12000
FVH	(80°-90°)	315.4	1.1			G3/500
BL	(0°-30°)	968.1	3.2	B2/1000		
BM	(30°-60°)	5295.5	17.7	B4/8500		
BH	(60°-80°)	8353.8	28.0	B5		G4/12000
BVH	(80°-90°)	315.4	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°	2114.9	2114.9	2114.9	2114.9	2114.9	2114.9	2114.9	2114.9	2114.9	2114.9	2114.9
2.5°	2114.9	2116.2	2117.7	2116.2	2116.2	2114.9	2113.6	2114.9	2113.6	2110.8	2112.3
5°	2121.7	2124.5	2124.5	2121.7	2123.1	2121.7	2119.0	2120.4	2117.7	2113.6	2113.6
7.5°	2130.1	2131.4	2131.4	2128.7	2130.1	2127.2	2124.5	2123.1	2120.4	2114.9	2110.8
10°	2142.4	2143.7	2142.4	2139.7	2139.7	2135.5	2128.7	2125.8	2120.4	2112.3	2108.1
12.5°	2156.0	2157.4	2156.0	2153.2	2151.9	2145.1	2139.7	2135.5	2131.4	2124.5	2117.7
15°	2175.2	2177.9	2175.2	2169.8	2165.6	2160.2	2157.4	2158.7	2160.2	2154.7	2147.8
17.5°	2210.8	2212.2	2208.0	2195.7	2190.2	2184.8	2184.8	2187.6	2191.7	2188.9	2182.1
20°	2276.6	2272.4	2262.9	2247.7	2240.9	2231.4	2230.0	2231.4	2231.4	2230.0	2224.6
22.5°	2358.8	2356.1	2343.7	2324.5	2314.9	2309.5	2301.3	2294.5	2293.1	2288.9	2283.4
25°	2457.5	2456.1	2441.0	2424.5	2417.7	2410.8	2404.0	2394.4	2386.2	2376.6	2371.0
27.5°	2583.3	2578.0	2555.9	2547.9	2538.3	2534.1	2524.4	2513.5	2506.7	2494.4	2487.5
30°	2721.8	2721.8	2704.0	2701.3	2701.3	2691.6	2680.6	2661.5	2649.1	2636.9	2632.8
32.5°	2860.2	2861.6	2843.7	2849.2	2853.2	2860.2	2862.9	2856.0	2847.7	2846.4	2838.1
35°	3060.0	3054.5	3036.8	3040.9	3039.5	3038.2	3038.2	3053.2	3055.9	3058.6	3042.3
37.5°	3308.0	3308.0	3290.2	3290.2	3282.0	3273.8	3262.9	3272.3	3287.4	3291.6	3280.6
40°	3591.6	3601.1	3579.2	3577.9	3580.6	3554.6	3542.2	3557.3	3566.9	3583.3	3571.0
42.5°	3925.9	3918.9	3897.0	3894.3	3879.2	3870.9	3860.0	3872.4	3887.4	3898.5	3902.4
45°	4246.3	4240.9	4216.1	4216.1	4201.2	4194.2	4199.8	4220.2	4227.2	4242.2	4257.2
47.5°	4562.8	4555.9	4539.4	4546.3	4547.7	4559.9	4577.9	4596.9	4616.2	4636.7	4643.6
50°	4886.1	4887.4	4869.5	4886.1	4906.5	4940.8	4988.7	5020.3	5060.0	5086.1	5094.2
52.5°	5180.5	5185.9	5205.1	5243.5	5284.5	5351.7	5433.8	5510.7	5576.4	5620.2	5617.6
55°	5533.9	5542.2	5588.7	5654.4	5721.6	5823.0	5944.9	6080.4	6190.0	6253.0	6213.3
57.5°	5985.9	6003.7	6055.8	6144.9	6244.8	6376.3	6543.4	6747.6	6917.4	7002.3	6937.9
60°	6606.5	6617.5	6680.4	6779.1	6899.6	7062.6	7285.9	7559.9	7799.5	7911.8	7837.9
62.5°	7424.2	7444.8	7495.5	7595.3	7718.7	7903.6	8176.3	8518.6	8817.3	8973.3	8806.4
65°	8400.9	8466.6	8509.0	8610.4	8725.4	8921.3	9206.3	9573.3	9893.9	9996.7	9803.6
67.5°	9368.0	9425.5	9499.4	9615.8	9732.2	9952.9	10217.2	10573.3	10925.4	11018.5	10718.5
70°	9791.2	9824.0	9939.1	10098.0	10321.3	10581.6	10887.0	11287.1	11722.6	11799.2	11418.4
72.5°	8943.3	8976.1	9105.0	9374.8	9763.8	10177.4	10710.3	11298.0	11873.3	11959.6	11435.0
75°	6764.0	6710.6	6901.0	7258.5	7783.0	8359.7	9105.0	9947.3	10778.9	10887.0	10261.0
77.5°	3495.7	3488.8	3632.7	4076.5	4702.4	5358.6	6179.1	7131.0	7944.7	8273.5	7764.0
80°	984.9	995.9	1064.3	1284.8	1650.5	2124.5	2765.6	3657.3	4323.1	4662.7	4377.8
82.5°	386.4	416.5	442.4	483.6	531.4	601.3	802.6	1194.4	1602.7	1914.9	1568.4
85°	138.3	148.0	209.6	247.9	252.1	265.8	302.6	353.5	425.9	508.3	417.8
87.5°	52.0	57.5	67.2	110.9	109.7	100.0	121.9	127.4	95.8	87.7	108.2
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°	2114.9	2114.9	2114.9	2114.9	2114.9	2114.9	2114.9	2114.9
2.5°	2109.5	2110.8	2110.8	2112.3	2113.6	2113.6	2116.2	2116.2
5°	2110.8	2110.8	2108.1	2109.5	2108.1	2108.1	2109.5	2109.5
7.5°	2108.1	2106.7	2104.0	2102.7	2099.9	2099.9	2099.9	2099.9
10°	2104.0	2102.7	2099.9	2098.5	2097.2	2097.2	2097.2	2097.2
12.5°	2114.9	2110.8	2108.1	2106.7	2106.7	2106.7	2106.7	2106.7
15°	2143.7	2134.2	2127.2	2127.2	2128.7	2131.4	2131.4	2134.2
17.5°	2179.3	2168.4	2161.5	2156.0	2158.7	2162.8	2165.6	2168.4
20°	2221.8	2216.3	2206.7	2201.2	2201.2	2206.7	2209.4	2210.8
22.5°	2280.6	2276.6	2272.4	2265.6	2265.6	2268.4	2273.8	2273.8
25°	2368.3	2365.5	2362.9	2357.4	2356.1	2356.1	2358.8	2361.6
27.5°	2478.0	2479.3	2476.5	2475.2	2471.1	2469.7	2473.8	2472.4
30°	2624.5	2631.3	2638.2	2632.8	2625.8	2621.8	2617.7	2612.2
32.5°	2823.2	2814.8	2809.4	2799.8	2787.5	2776.5	2768.3	2758.8
35°	3010.8	2997.0	2991.5	2999.8	2998.5	2991.5	2982.1	2973.7
37.5°	3240.9	3238.2	3240.9	3255.9	3253.2	3260.0	3240.9	3239.6
40°	3531.2	3534.0	3553.2	3571.0	3580.6	3590.2	3579.2	3568.2
42.5°	3868.2	3866.9	3873.8	3898.5	3914.9	3925.9	3902.4	3899.7
45°	4224.4	4214.8	4220.2	4240.9	4257.2	4269.6	4243.6	4243.6
47.5°	4616.2	4599.7	4582.0	4605.3	4614.9	4622.9	4602.5	4595.5
50°	5053.1	5018.9	4980.6	4990.2	4990.2	4987.4	4961.3	4960.0
52.5°	5554.5	5491.5	5421.6	5395.6	5380.5	5364.0	5318.9	5296.9
55°	6131.1	6036.6	5927.0	5860.0	5824.3	5779.1	5703.8	5683.2
57.5°	6805.1	6657.1	6468.1	6386.0	6306.6	6232.5	6149.0	6125.6
60°	7603.7	7385.9	7135.1	6983.2	6896.8	6825.6	6739.4	6735.2
62.5°	8494.1	8150.2	7866.6	7729.6	7666.7	7603.7	7521.5	7532.4
65°	9399.4	9040.5	8774.9	8663.9	8605.0	8552.9	8470.7	8483.1
67.5°	10292.5	9962.5	9670.7	9557.0	9491.2	9425.5	9351.4	9363.8
70°	10933.6	10524.1	10195.3	9943.2	9785.6	9607.6	9492.6	9463.9
72.5°	10750.0	10118.6	9596.8	9096.6	8803.6	8565.2	8403.6	8333.8
75°	9303.6	8440.6	7769.4	7155.7	6810.6	6529.7	6325.7	6198.2
77.5°	6909.1	5939.4	5146.3	4439.5	3880.6	3505.2	3240.9	3069.7
80°	3782.0	2876.6	2102.7	1478.0	1086.2	902.6	797.2	746.5
82.5°	1177.9	760.2	560.3	483.6	449.3	430.1	398.6	348.0
85°	375.3	328.8	305.5	291.8	278.0	242.5	167.2	152.1
87.5°	145.2	149.3	148.0	139.7	142.4	102.8	82.1	72.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)