

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: P299906

Luminaire Tested: **GLNA-AF-06-LED-E1-5WQ-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299906  
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: GLNA-AF-06-LED-E1-5WQ-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
w/Spill Control OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29201.6 lumens  
Efficiency: N/A  
Efficacy: 117.3 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): 249  
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

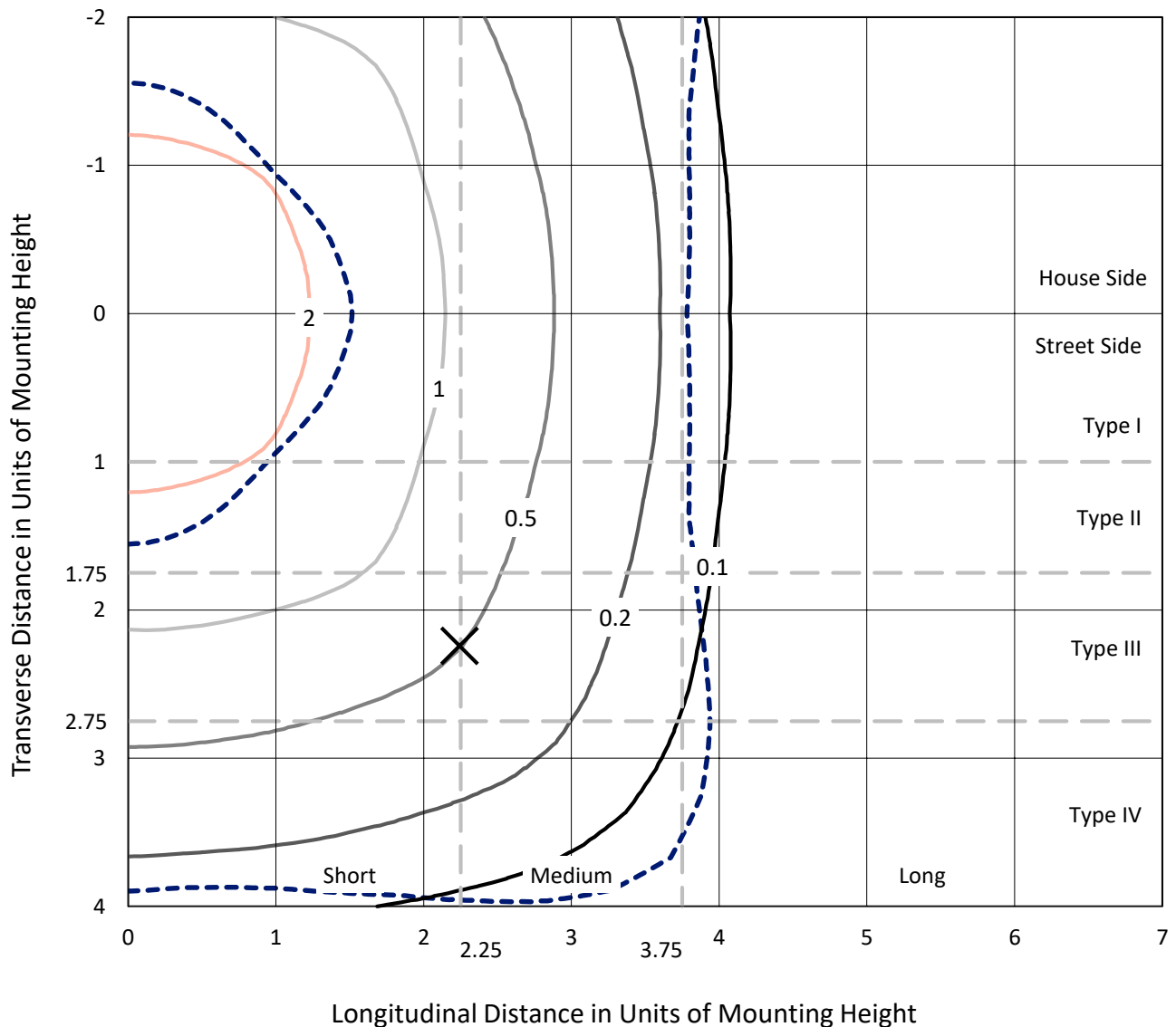


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

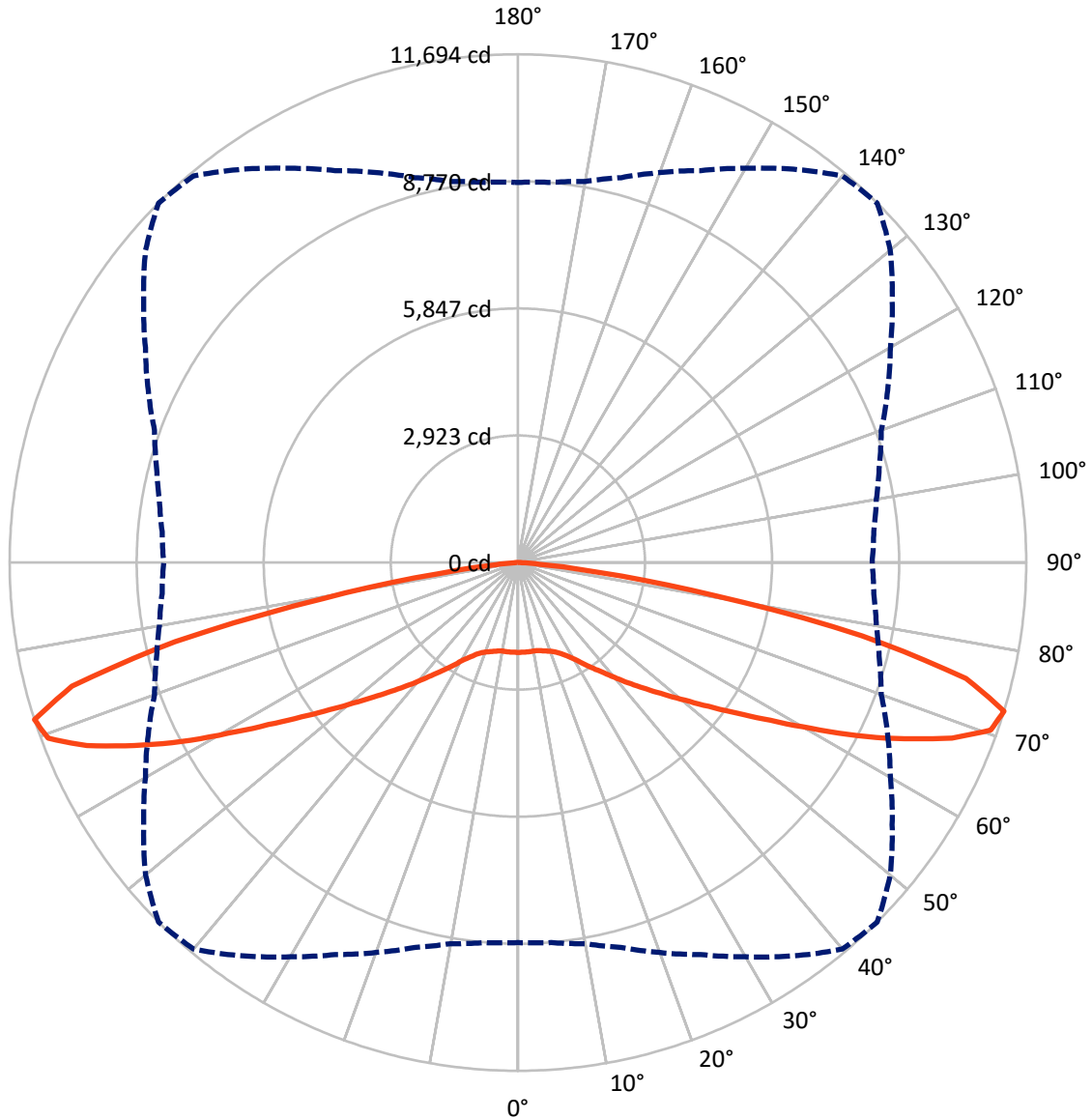


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type V - Short - Semi-Cutoff

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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	14600.8	0.0	14600.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14600.8	0.0	14600.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29201.6	0.0	29201.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.5	0.7
10°-20°	599.7	2.1
20°-30°	1095.9	3.8
30°-40°	1889.6	6.5
40°-50°	3230.2	11.1
50°-60°	5235.7	17.9
60°-70°	8685.9	29.7
70°-80°	7650.2	26.2
80°-90°	616.8	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°	29201.6	100.0
0°-180°	29201.6	100.0



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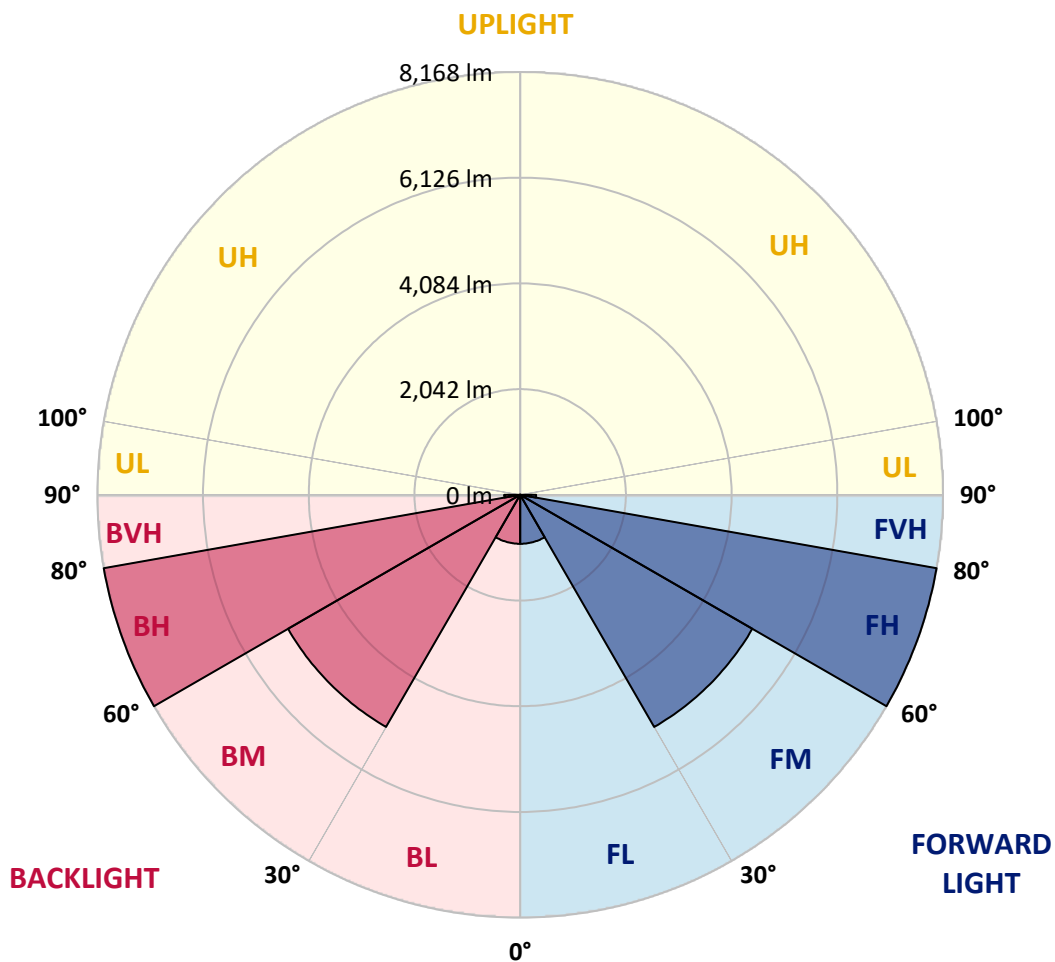
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	946.6	3.2			
FM (30°-60°)	5177.8	17.7			
FH (60°-80°)	8168.1	28.0			G4/12000
FVH (80°-90°)	308.4	1.1			G3/500
BL (0°-30°)	946.6	3.2	B2/1000		
BM (30°-60°)	5177.8	17.7	B4/8500		
BH (60°-80°)	8168.1	28.0	B5		G4/12000
BVH (80°-90°)	308.4	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°	2067.9	2067.9	2067.9	2067.9	2067.9	2067.9	2067.9	2067.9	2067.9	2067.9	2067.9
2.5°	2067.9	2069.3	2070.6	2069.3	2069.3	2067.9	2066.6	2067.9	2066.6	2063.9	2065.2
5°	2074.6	2077.3	2077.3	2074.6	2076.0	2074.6	2071.9	2073.3	2070.6	2066.6	2066.6
7.5°	2082.7	2084.0	2084.0	2081.3	2082.7	2080.0	2077.3	2076.0	2073.3	2067.9	2063.9
10°	2094.7	2096.1	2094.7	2092.0	2092.0	2088.0	2081.3	2078.6	2073.3	2065.2	2061.2
12.5°	2108.1	2109.4	2108.1	2105.4	2104.1	2097.4	2092.0	2088.0	2084.0	2077.3	2070.6
15°	2126.9	2129.5	2126.9	2121.5	2117.5	2112.1	2109.4	2110.8	2112.1	2106.8	2100.1
17.5°	2161.7	2163.0	2159.0	2146.9	2141.6	2136.2	2136.2	2138.9	2142.9	2140.3	2133.6
20°	2226.0	2222.0	2212.6	2197.8	2191.1	2181.8	2180.4	2181.8	2181.8	2180.4	2175.1
22.5°	2306.3	2303.7	2291.6	2272.8	2263.5	2258.1	2250.1	2243.4	2242.0	2238.0	2232.7
25°	2402.8	2401.4	2386.7	2370.6	2363.9	2357.2	2350.5	2341.2	2333.1	2323.7	2318.4
27.5°	2526.0	2520.6	2499.2	2491.2	2481.8	2477.8	2468.4	2457.7	2451.0	2438.9	2432.2
30°	2661.3	2661.3	2643.8	2641.2	2641.2	2631.8	2621.1	2602.3	2590.3	2578.2	2574.2
32.5°	2796.5	2797.9	2780.5	2785.8	2789.8	2796.5	2799.2	2792.5	2784.5	2783.1	2775.1
35°	2992.1	2986.7	2969.3	2973.3	2972.0	2970.6	2970.6	2985.4	2988.0	2990.7	2974.7
37.5°	3234.5	3234.5	3217.1	3217.1	3209.0	3201.0	3190.3	3199.7	3214.4	3218.4	3207.7
40°	3511.7	3521.1	3499.7	3498.3	3501.0	3475.6	3463.5	3478.2	3487.6	3503.7	3491.6
42.5°	3838.5	3831.8	3810.4	3807.7	3793.0	3785.0	3774.2	3786.3	3801.0	3811.7	3815.8
45°	4151.9	4146.6	4122.5	4122.5	4107.7	4101.0	4106.4	4126.5	4133.2	4147.9	4162.6
47.5°	4461.3	4454.6	4438.5	4445.2	4446.6	4458.6	4476.0	4494.8	4513.5	4533.6	4540.3
50°	4777.4	4778.7	4761.3	4777.4	4797.5	4831.0	4877.8	4908.7	4947.5	4972.9	4981.0
52.5°	5065.4	5070.7	5089.5	5127.0	5167.1	5232.8	5313.1	5388.1	5452.4	5495.3	5492.6
55°	5410.9	5418.9	5464.5	5528.8	5594.4	5693.5	5812.7	5945.3	6052.4	6114.0	6075.2
57.5°	5852.9	5870.3	5921.2	6008.2	6106.0	6234.6	6398.0	6597.5	6763.6	6846.7	6783.7
60°	6459.6	6470.3	6531.9	6628.4	6746.2	6905.6	7123.9	7391.8	7626.2	7736.0	7663.7
62.5°	7259.2	7279.3	7328.8	7426.6	7547.1	7727.9	7994.5	8329.3	8621.3	8774.0	8610.6
65°	8214.1	8278.4	8319.9	8419.0	8531.5	8723.1	9001.6	9360.6	9674.0	9774.4	9585.6
67.5°	9159.7	9215.9	9288.3	9402.1	9516.0	9731.6	9990.1	10338.3	10682.5	10773.6	10480.3
70°	9573.5	9605.7	9718.2	9873.6	10091.9	10346.3	10645.0	11036.1	11462.0	11537.0	11164.7
72.5°	8744.5	8776.6	8902.5	9166.4	9546.8	9951.2	10472.2	11046.8	11609.3	11693.7	11180.7
75°	6613.6	6561.4	6747.6	7097.1	7610.1	8173.9	8902.5	9726.2	10539.2	10645.0	10032.9
77.5°	3418.0	3411.3	3551.9	3985.9	4597.9	5239.5	6041.7	6972.6	7768.1	8089.6	7591.3
80°	963.0	973.7	1040.7	1256.3	1613.9	2077.3	2704.1	3576.0	4226.9	4559.1	4280.5
82.5°	377.7	407.2	432.6	472.8	519.7	588.0	784.8	1167.9	1567.0	1872.4	1533.5
85°	135.3	144.6	204.9	242.4	246.4	259.8	296.0	345.5	416.5	496.9	408.5
87.5°	50.9	56.3	65.6	108.5	107.1	97.8	119.2	124.6	93.8	85.7	105.8
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°	2067.9	2067.9	2067.9	2067.9	2067.9	2067.9	2067.9	2067.9
2.5°	2062.6	2063.9	2063.9	2065.2	2066.6	2066.6	2069.3	2069.3
5°	2063.9	2063.9	2061.2	2062.6	2061.2	2061.2	2062.6	2062.6
7.5°	2061.2	2059.9	2057.2	2055.9	2053.2	2053.2	2053.2	2053.2
10°	2057.2	2055.9	2053.2	2051.9	2050.5	2050.5	2050.5	2050.5
12.5°	2067.9	2063.9	2061.2	2059.9	2059.9	2059.9	2059.9	2059.9
15°	2096.1	2086.7	2080.0	2080.0	2081.3	2084.0	2084.0	2086.7
17.5°	2130.9	2120.2	2113.5	2108.1	2110.8	2114.8	2117.5	2120.2
20°	2172.4	2167.0	2157.7	2152.3	2152.3	2157.7	2160.3	2161.7
22.5°	2230.0	2226.0	2222.0	2215.3	2215.3	2217.9	2223.3	2223.3
25°	2315.7	2313.0	2310.3	2305.0	2303.7	2303.7	2306.3	2309.0
27.5°	2422.9	2424.2	2421.5	2420.2	2416.2	2414.8	2418.8	2417.5
30°	2566.2	2572.9	2579.6	2574.2	2567.5	2563.5	2559.5	2554.1
32.5°	2760.4	2752.3	2747.0	2737.6	2725.5	2714.8	2706.8	2697.4
35°	2943.9	2930.5	2925.1	2933.1	2931.8	2925.1	2915.7	2907.7
37.5°	3168.9	3166.2	3168.9	3183.6	3180.9	3187.6	3168.9	3167.5
40°	3452.8	3455.5	3474.2	3491.6	3501.0	3510.4	3499.7	3489.0
42.5°	3782.3	3780.9	3787.6	3811.7	3827.8	3838.5	3815.8	3813.1
45°	4130.5	4121.1	4126.5	4146.6	4162.6	4174.7	4149.2	4149.2
47.5°	4513.5	4497.5	4480.1	4502.8	4512.2	4520.2	4500.2	4493.5
50°	4940.8	4907.3	4869.8	4879.2	4879.2	4876.5	4851.1	4849.7
52.5°	5431.0	5369.4	5301.1	5275.6	5260.9	5244.8	5200.6	5179.2
55°	5994.8	5902.4	5795.3	5729.7	5694.8	5650.6	5577.0	5556.9
57.5°	6653.8	6509.2	6324.3	6244.0	6166.3	6094.0	6012.3	5989.5
60°	7434.6	7221.7	6976.6	6827.9	6743.5	6673.9	6589.5	6585.5
62.5°	8305.2	7969.0	7691.8	7557.8	7496.2	7434.6	7354.3	7365.0
65°	9190.5	8839.6	8579.8	8471.3	8413.7	8362.8	8282.4	8294.5
67.5°	10063.7	9741.0	9455.7	9344.5	9280.2	9215.9	9143.6	9155.7
70°	10690.5	10290.1	9968.6	9722.2	9568.2	9394.1	9281.6	9253.4
72.5°	10511.1	9893.6	9383.4	8894.5	8607.9	8374.8	8216.8	8148.5
75°	9096.7	8253.0	7596.7	6996.7	6659.2	6384.6	6185.0	6060.5
77.5°	6755.6	5807.3	5031.9	4340.8	3794.3	3427.4	3168.9	3001.4
80°	3697.9	2812.6	2055.9	1445.1	1062.1	882.6	779.5	729.9
82.5°	1151.8	743.3	547.8	472.8	439.3	420.6	389.7	340.2
85°	367.0	321.4	298.7	285.3	271.9	237.1	163.4	148.7
87.5°	142.0	146.0	144.6	136.6	139.3	100.4	80.4	71.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)