

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: P194215

Luminaire Tested: **GLEON-AF-07-LED-E1-5WQ-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194215
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-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 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: 29219 lumens
Efficiency: N/A
Efficacy: 129.3 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

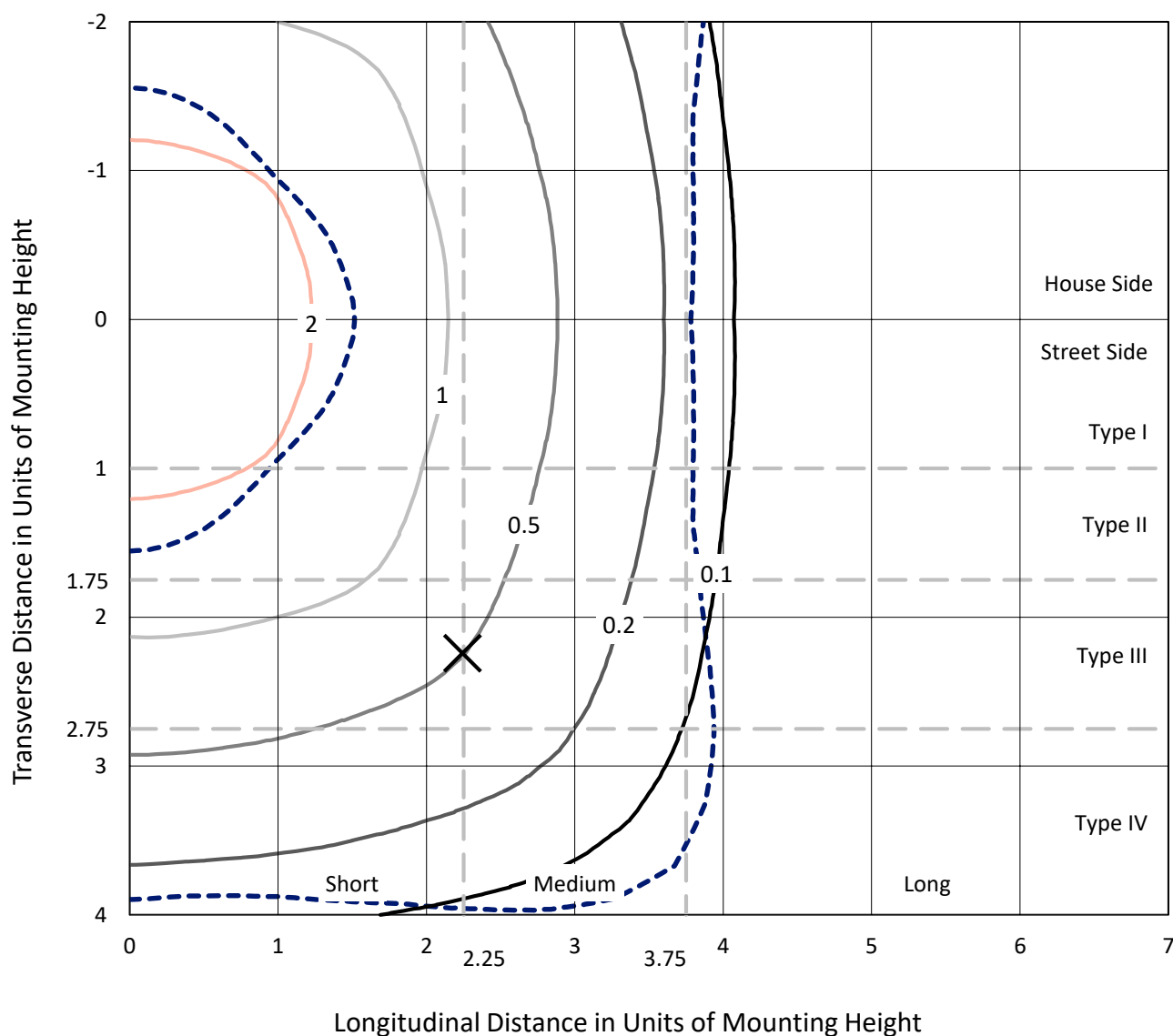


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

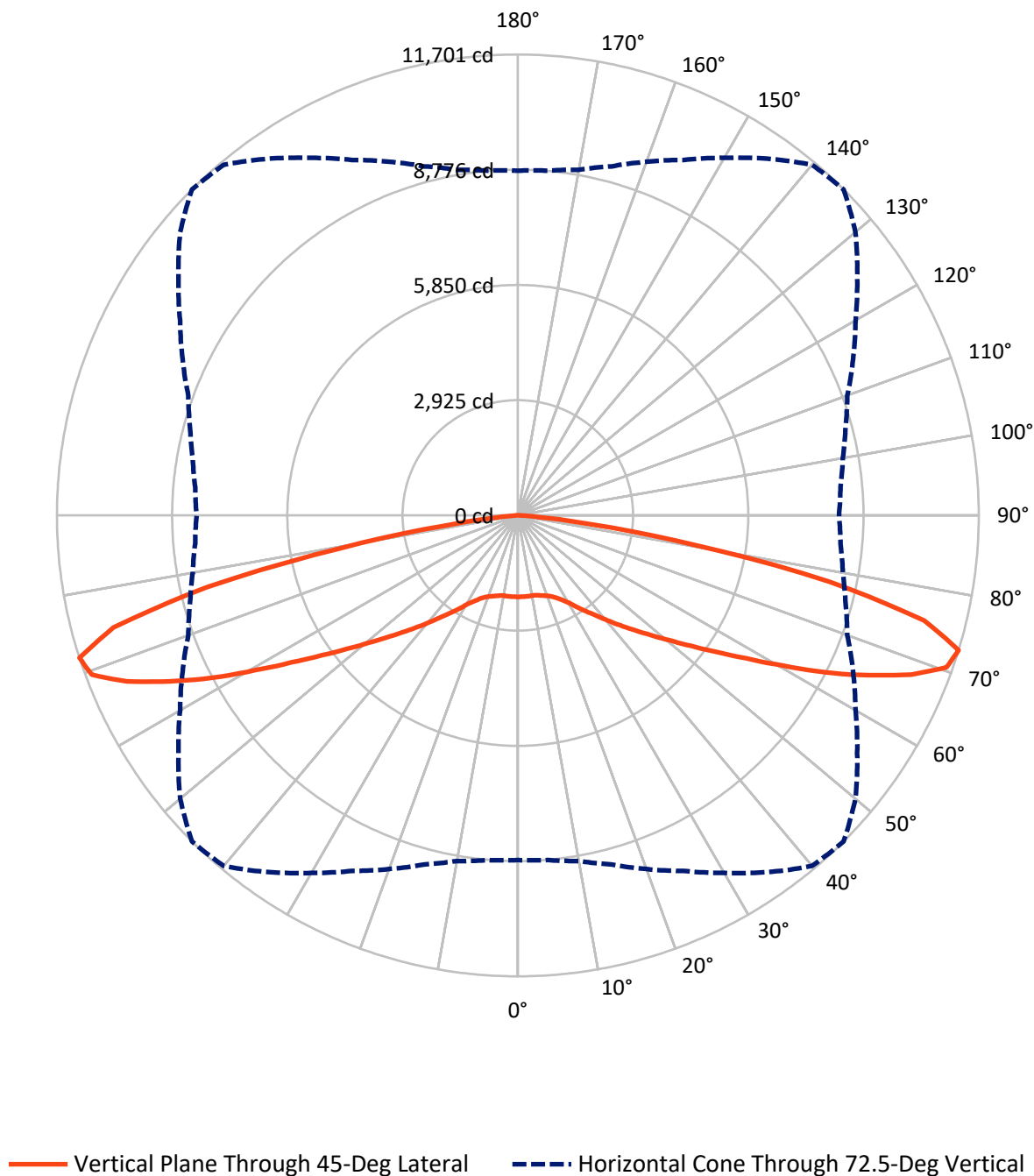


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14609.5	0.0	14609.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14609.5	0.0	14609.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29219.0	0.0	29219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.6	0.7
10°-20°	600.1	2.1
20°-30°	1096.6	3.8
30°-40°	1890.7	6.5
40°-50°	3232.1	11.1
50°-60°	5238.9	17.9
60°-70°	8691.1	29.7
70°-80°	7654.8	26.2
80°-90°	617.2	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°	29219.0	100.0
0°-180°	29219.0	100.0

Coefficient of Utilization



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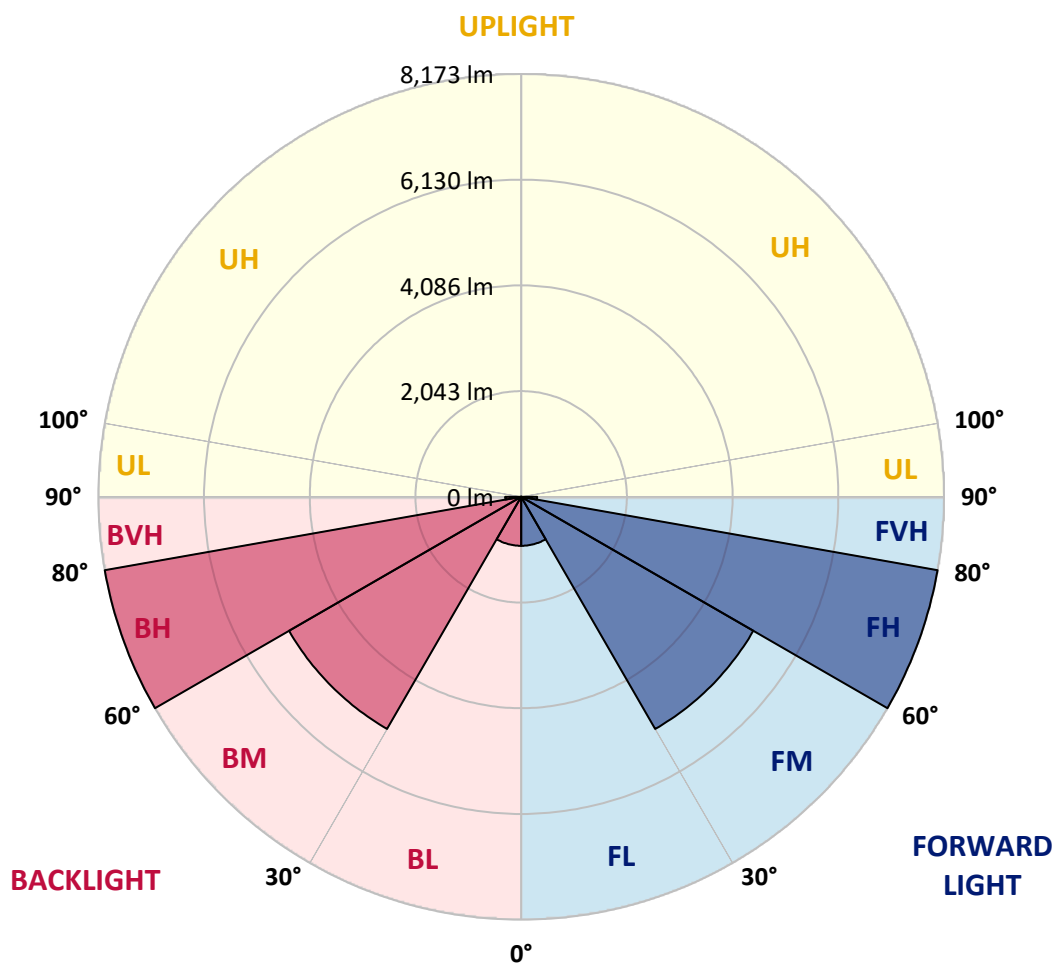
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	947.1	3.2			
FM	(30°-60°)	5180.8	17.7			
FH	(60°-80°)	8172.9	28.0			G4/12000
FVH	(80°-90°)	308.6	1.1			G3/500
BL	(0°-30°)	947.1	3.2	B2/1000		
BM	(30°-60°)	5180.8	17.7	B4/8500		
BH	(60°-80°)	8172.9	28.0	B5		G4/12000
BVH	(80°-90°)	308.6	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°	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2
2.5°	2069.2	2070.5	2071.8	2070.5	2070.5	2069.2	2067.8	2069.2	2067.8	2065.1	2066.5
5°	2075.9	2078.5	2078.5	2075.9	2077.2	2075.9	2073.2	2074.5	2071.8	2067.8	2067.8
7.5°	2083.9	2085.2	2085.2	2082.6	2083.9	2081.2	2078.5	2077.2	2074.5	2069.2	2065.1
10°	2096.0	2097.3	2096.0	2093.3	2093.3	2089.3	2082.6	2079.9	2074.5	2066.5	2062.5
12.5°	2109.4	2110.7	2109.4	2106.7	2105.3	2098.6	2093.3	2089.3	2085.2	2078.5	2071.8
15°	2128.1	2130.8	2128.1	2122.8	2118.7	2113.4	2110.7	2112.0	2113.4	2108.0	2101.3
17.5°	2163.0	2164.3	2160.3	2148.2	2142.9	2137.5	2137.5	2140.2	2144.2	2141.5	2134.8
20°	2227.3	2223.3	2213.9	2199.2	2192.5	2183.1	2181.7	2183.1	2183.1	2181.7	2176.4
22.5°	2307.7	2305.0	2293.0	2274.2	2264.8	2259.5	2251.4	2244.7	2243.4	2239.4	2234.0
25°	2404.2	2402.9	2388.1	2372.0	2365.3	2358.6	2351.9	2342.5	2334.5	2325.1	2319.8
27.5°	2527.5	2522.1	2500.7	2492.6	2483.3	2479.2	2469.9	2459.1	2452.4	2440.4	2433.7
30°	2662.8	2662.8	2645.4	2642.7	2642.7	2633.4	2622.6	2603.9	2591.8	2579.7	2575.7
32.5°	2798.2	2799.5	2782.1	2787.5	2791.5	2798.2	2800.9	2794.2	2786.1	2784.8	2776.7
35°	2993.8	2988.5	2971.1	2975.1	2973.7	2972.4	2972.4	2987.1	2989.8	2992.5	2976.4
37.5°	3236.4	3236.4	3219.0	3219.0	3210.9	3202.9	3192.2	3201.6	3216.3	3220.3	3209.6
40°	3513.8	3523.2	3501.8	3500.4	3503.1	3477.6	3465.6	3480.3	3489.7	3505.8	3493.7
42.5°	3840.8	3834.1	3812.7	3810.0	3795.2	3787.2	3776.5	3788.5	3803.3	3814.0	3818.0
45°	4154.4	4149.0	4124.9	4124.9	4110.2	4103.5	4108.8	4128.9	4135.6	4150.4	4165.1
47.5°	4464.0	4457.3	4441.2	4447.9	4449.2	4461.3	4478.7	4497.5	4516.2	4536.3	4543.0
50°	4780.2	4781.6	4764.2	4780.2	4800.3	4833.8	4880.7	4911.6	4950.4	4975.9	4983.9
52.5°	5068.4	5073.7	5092.5	5130.0	5170.2	5235.9	5316.3	5391.3	5455.7	5498.5	5495.9
55°	5414.1	5422.2	5467.7	5532.1	5597.7	5696.9	5816.2	5948.8	6056.0	6117.7	6078.8
57.5°	5856.4	5873.8	5924.7	6011.8	6109.6	6238.3	6401.8	6601.5	6767.7	6850.7	6787.8
60°	6463.4	6474.2	6535.8	6632.3	6750.2	6909.7	7128.1	7396.2	7630.7	7740.6	7668.2
62.5°	7263.5	7283.6	7333.2	7431.0	7551.6	7732.5	7999.2	8334.3	8626.4	8779.2	8615.7
65°	8219.0	8283.3	8324.9	8424.1	8536.6	8728.3	9007.0	9366.2	9679.8	9780.3	9591.3
67.5°	9165.1	9221.4	9293.8	9407.7	9521.6	9737.4	9996.0	10344.5	10688.9	10780.0	10486.5
70°	9579.2	9611.4	9724.0	9879.4	10097.9	10352.5	10651.3	11042.7	11468.8	11543.9	11171.3
72.5°	8749.7	8781.9	8907.8	9171.8	9552.4	9957.2	10478.5	11053.4	11616.2	11700.7	11187.4
75°	6617.6	6565.3	6751.6	7101.3	7614.6	8178.8	8907.8	9732.0	10545.5	10651.3	10038.9
77.5°	3420.0	3413.3	3554.0	3988.2	4600.7	5242.6	6045.3	6976.7	7772.7	8094.4	7595.9
80°	963.6	974.3	1041.3	1257.0	1614.9	2078.5	2705.7	3578.1	4229.4	4561.8	4283.1
82.5°	377.9	407.4	432.9	473.1	520.0	588.3	785.3	1168.6	1568.0	1873.5	1534.4
85°	135.4	144.7	205.0	242.6	246.6	260.0	296.2	345.8	416.8	497.2	408.7
87.5°	50.9	56.3	65.7	108.6	107.2	97.8	119.3	124.6	93.8	85.8	105.9
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°	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2
2.5°	2063.8	2065.1	2065.1	2066.5	2067.8	2067.8	2070.5	2070.5
5°	2065.1	2065.1	2062.5	2063.8	2062.5	2062.5	2063.8	2063.8
7.5°	2062.5	2061.1	2058.4	2057.1	2054.4	2054.4	2054.4	2054.4
10°	2058.4	2057.1	2054.4	2053.1	2051.7	2051.7	2051.7	2051.7
12.5°	2069.2	2065.1	2062.5	2061.1	2061.1	2061.1	2061.1	2061.1
15°	2097.3	2087.9	2081.2	2081.2	2082.6	2085.2	2085.2	2087.9
17.5°	2132.1	2121.4	2114.7	2109.4	2112.0	2116.1	2118.7	2121.4
20°	2173.7	2168.3	2158.9	2153.6	2153.6	2158.9	2161.6	2163.0
22.5°	2231.3	2227.3	2223.3	2216.6	2216.6	2219.3	2224.6	2224.6
25°	2317.1	2314.4	2311.7	2306.4	2305.0	2305.0	2307.7	2310.4
27.5°	2424.3	2425.6	2423.0	2421.6	2417.6	2416.3	2420.3	2418.9
30°	2567.7	2574.4	2581.1	2575.7	2569.0	2565.0	2561.0	2555.6
32.5°	2762.0	2754.0	2748.6	2739.2	2727.2	2716.4	2708.4	2699.0
35°	2945.6	2932.2	2926.8	2934.9	2933.5	2926.8	2917.5	2909.4
37.5°	3170.7	3168.1	3170.7	3185.5	3182.8	3189.5	3170.7	3169.4
40°	3454.9	3457.5	3476.3	3493.7	3503.1	3512.5	3501.8	3491.0
42.5°	3784.5	3783.2	3789.9	3814.0	3830.1	3840.8	3818.0	3815.3
45°	4133.0	4123.6	4128.9	4149.0	4165.1	4177.2	4151.7	4151.7
47.5°	4516.2	4500.2	4482.7	4505.5	4514.9	4522.9	4502.8	4496.1
50°	4943.7	4910.2	4872.7	4882.1	4882.1	4879.4	4853.9	4852.6
52.5°	5434.2	5372.6	5304.2	5278.8	5264.0	5247.9	5203.7	5182.3
55°	5998.4	5905.9	5798.7	5733.1	5698.2	5654.0	5580.3	5560.2
57.5°	6657.8	6513.0	6328.1	6247.7	6170.0	6097.6	6015.8	5993.1
60°	7439.1	7226.0	6980.7	6832.0	6747.5	6677.9	6593.4	6589.4
62.5°	8310.1	7973.8	7696.4	7562.3	7500.7	7439.1	7358.6	7369.4
65°	9196.0	8844.9	8584.9	8476.3	8418.7	8367.8	8287.4	8299.4
67.5°	10069.7	9746.8	9461.3	9350.1	9285.8	9221.4	9149.1	9161.1
70°	10696.9	10296.2	9974.6	9728.0	9573.9	9399.7	9287.1	9259.0
72.5°	10517.3	9899.5	9388.9	8899.8	8613.0	8379.8	8221.7	8153.3
75°	9102.2	8257.9	7601.2	7000.8	6663.1	6388.4	6188.7	6064.1
77.5°	6759.6	5810.8	5034.9	4343.4	3796.6	3429.4	3170.7	3003.2
80°	3700.1	2814.3	2057.1	1446.0	1062.7	883.1	780.0	730.4
82.5°	1152.5	743.8	548.1	473.1	439.6	420.8	390.0	340.4
85°	367.2	321.6	298.8	285.4	272.0	237.2	163.5	148.8
87.5°	142.1	146.1	144.7	136.7	139.4	100.5	80.4	71.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)