

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: P269362

Luminaire Tested: **GLEON-AF-06-LED-E1-5MQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-5MQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21408.1 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 193
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

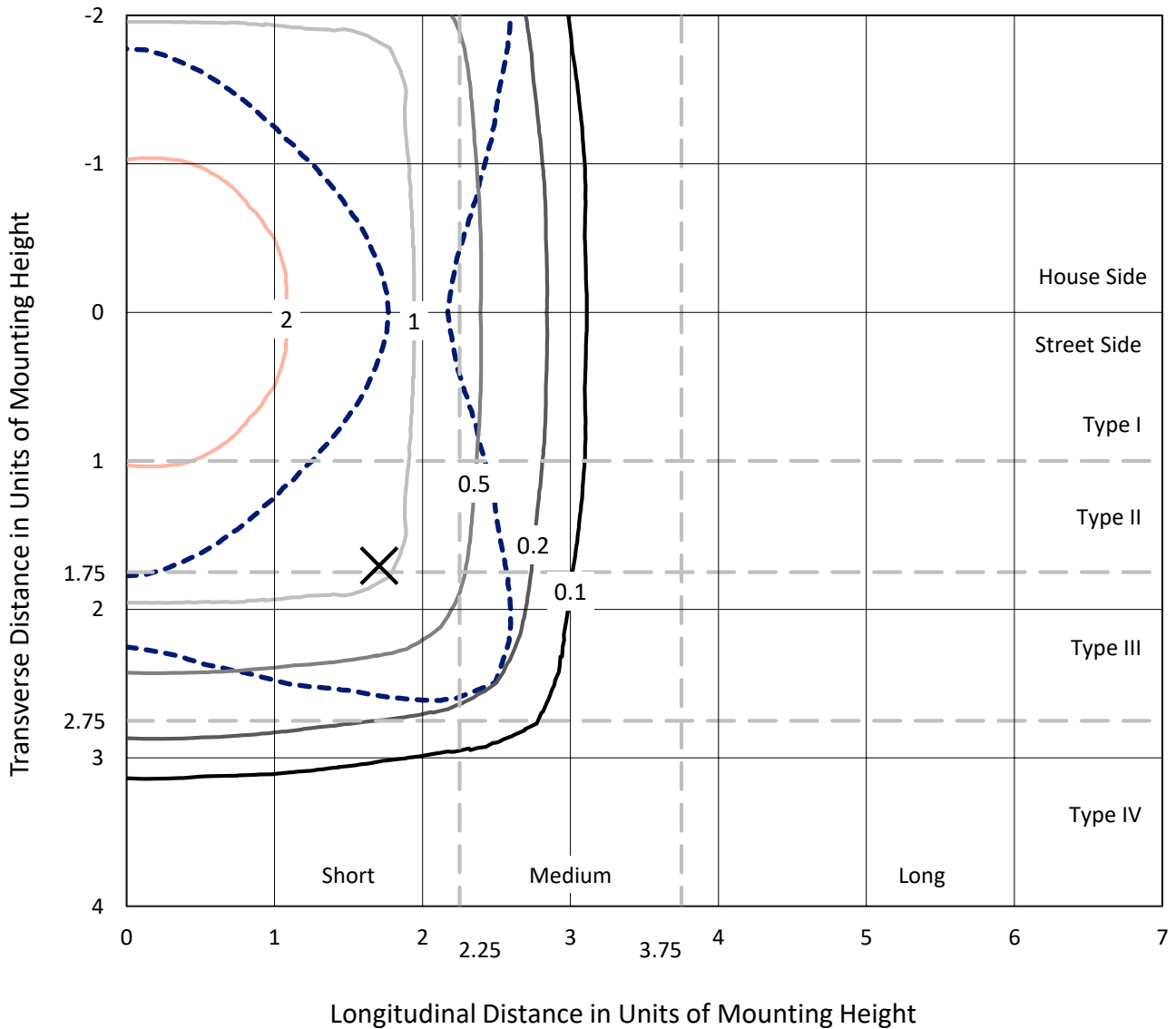


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

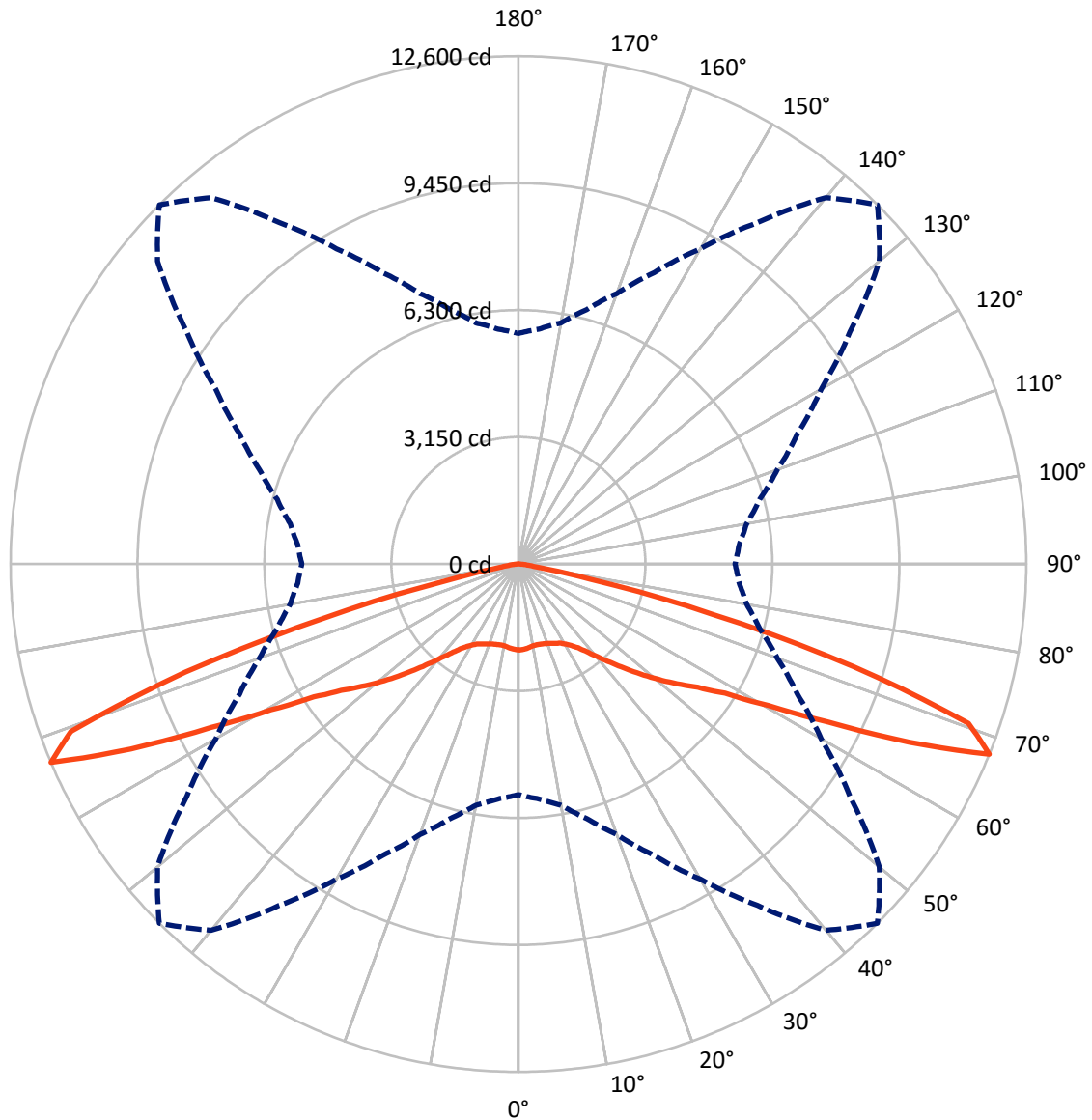


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10704.0	0.0	10704.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10704.0	0.0	10704.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21408.1	0.0	21408.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.7	0.9
10°-20°	579.4	2.7
20°-30°	985.0	4.6
30°-40°	1610.2	7.5
40°-50°	2874.5	13.4
50°-60°	4846.5	22.6
60°-70°	7521.0	35.1
70°-80°	2642.5	12.3
80°-90°	149.3	0.7
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°	21408.1	100.0
0°-180°	21408.1	100.0



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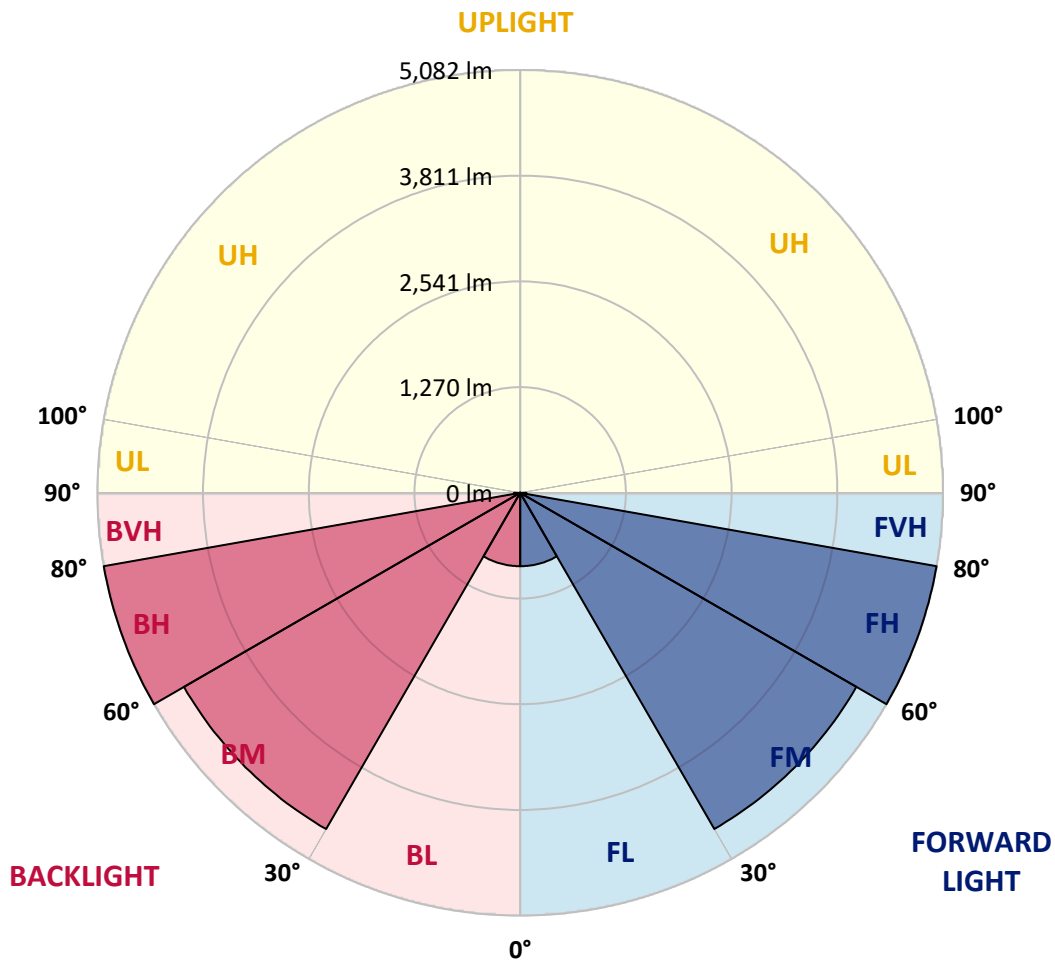
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	882.1	4.1			
FM	(30°-60°)	4665.6	21.8			
FH	(60°-80°)	5081.8	23.7			G3/7500
FVH	(80°-90°)	74.7	0.3			G1/100
BL	(0°-30°)	882.1	4.1	B2/1000		
BM	(30°-60°)	4665.6	21.8	B3/5000		
BH	(60°-80°)	5081.8	23.7	B5		G3/7500
BVH	(80°-90°)	74.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2133.5	2133.5	2133.5	2133.5	2133.5	2133.5	2133.5	2133.5	2133.5	2133.5	2133.5
2.5°	2125.5	2127.5	2127.5	2127.5	2126.5	2126.5	2124.5	2126.5	2125.5	2122.5	2123.6
5°	2107.9	2109.8	2109.8	2108.9	2111.7	2110.7	2107.9	2109.8	2108.9	2106.9	2107.9
7.5°	2082.2	2085.1	2085.1	2084.2	2087.1	2086.1	2084.2	2085.1	2085.1	2082.2	2082.2
10°	2053.6	2055.6	2055.6	2054.7	2059.5	2059.5	2058.6	2061.5	2062.5	2059.5	2057.6
12.5°	2027.0	2030.0	2030.0	2033.9	2039.0	2040.9	2045.8	2049.8	2053.6	2052.6	2048.8
15°	2011.3	2013.3	2017.2	2022.2	2030.0	2036.9	2044.8	2053.6	2061.5	2063.4	2057.6
17.5°	2001.5	2004.5	2010.3	2017.2	2028.1	2040.0	2051.6	2063.4	2074.4	2078.3	2071.4
20°	1998.5	2000.4	2006.5	2018.2	2033.0	2050.7	2067.4	2081.3	2095.9	2101.0	2095.9
22.5°	2004.5	2008.4	2015.3	2029.0	2048.8	2071.4	2091.1	2109.8	2128.4	2137.3	2130.4
25°	2031.0	2035.0	2043.9	2061.5	2083.2	2106.9	2129.4	2151.1	2167.9	2176.8	2171.8
27.5°	2080.3	2085.1	2095.9	2113.7	2137.3	2162.8	2187.6	2205.2	2219.1	2222.0	2216.1
30°	2154.0	2164.9	2177.8	2197.4	2224.9	2246.7	2271.3	2286.9	2303.8	2303.8	2298.9
32.5°	2269.3	2280.1	2293.9	2312.5	2334.2	2358.0	2379.5	2393.4	2411.1	2411.9	2400.2
35°	2441.6	2446.4	2458.3	2470.1	2489.8	2510.5	2529.2	2538.0	2552.9	2553.8	2542.9
37.5°	2669.0	2669.9	2677.8	2681.8	2699.4	2722.1	2739.9	2745.8	2759.6	2757.5	2746.7
40°	2933.9	2938.7	2941.7	2947.6	2966.4	2987.9	3006.6	3009.6	3024.4	3021.4	3007.6
42.5°	3239.9	3242.0	3258.7	3267.6	3285.3	3296.2	3319.7	3322.7	3340.3	3332.5	3316.8
45°	3583.6	3601.2	3617.0	3634.7	3653.4	3666.3	3684.9	3681.1	3692.8	3681.1	3672.2
47.5°	3944.8	3957.8	3993.1	4020.6	4051.1	4062.0	4088.6	4076.8	4088.6	4071.8	4069.0
50°	4342.6	4365.3	4395.8	4427.2	4459.7	4477.5	4511.9	4497.2	4512.9	4497.2	4488.3
52.5°	4734.4	4740.4	4807.3	4853.5	4898.8	4919.6	4940.1	4933.3	4934.3	4933.3	4924.5
55°	5106.5	5120.3	5187.4	5250.4	5329.0	5387.1	5422.6	5418.7	5409.9	5401.0	5386.1
57.5°	5526.0	5539.8	5616.6	5694.4	5783.9	5866.7	5938.4	6012.4	6040.9	6048.7	6016.3
60°	6093.1	6092.0	6194.4	6288.9	6417.0	6540.0	6697.6	6858.0	7042.2	7127.7	7014.5
62.5°	6669.9	6693.6	6841.2	7008.7	7272.5	7529.5	7819.8	8105.3	8396.7	8634.0	8382.1
65°	6601.0	6691.7	6911.2	7290.3	7777.5	8356.5	8982.5	9645.1	10243.7	10655.2	10193.4
67.5°	5720.9	5849.9	6073.4	6534.1	7143.5	7978.3	9029.9	10340.2	11863.1	12599.5	11686.9
70°	4146.7	4292.5	4526.6	4976.6	5580.1	6373.7	7515.7	9089.0	11105.1	11847.4	10842.3
72.5°	2063.4	2142.3	2286.9	2573.5	3030.3	3674.2	4709.9	6222.0	8006.0	8687.1	7768.6
75°	700.9	737.4	762.0	855.5	1000.3	1253.2	1768.1	2720.2	4149.6	4974.6	4090.6
77.5°	404.6	405.7	422.4	439.1	463.6	491.3	560.2	735.4	1272.0	1806.5	1316.2
80°	261.9	260.9	274.7	287.5	304.2	318.0	322.0	340.6	392.7	465.7	416.5
82.5°	135.9	152.6	183.2	199.9	231.4	237.2	229.3	222.5	235.3	244.2	250.1
85°	74.7	64.9	97.5	126.0	139.7	141.8	141.8	133.8	138.8	135.9	147.7
87.5°	34.5	31.5	38.4	62.1	65.9	56.1	59.1	52.2	37.4	36.4	41.3
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°	2133.5	2133.5	2133.5	2133.5	2133.5	2133.5	2133.5	2133.5
2.5°	2123.6	2124.5	2124.5	2127.5	2128.4	2130.4	2132.4	2133.5
5°	2106.9	2109.8	2107.9	2110.7	2110.7	2112.8	2112.8	2113.7
7.5°	2082.2	2085.1	2085.1	2085.1	2084.2	2087.1	2087.1	2087.1
10°	2056.6	2058.6	2057.6	2055.6	2053.6	2056.6	2055.6	2054.7
12.5°	2048.8	2043.9	2040.0	2038.0	2033.9	2035.0	2032.0	2032.0
15°	2053.6	2044.8	2038.0	2035.0	2031.0	2029.0	2027.0	2028.1
17.5°	2066.5	2055.6	2046.8	2041.8	2036.9	2033.9	2030.0	2031.0
20°	2089.1	2076.3	2063.4	2053.6	2044.8	2040.0	2036.9	2036.0
22.5°	2122.5	2103.9	2085.1	2070.5	2058.6	2051.6	2048.8	2046.8
25°	2161.0	2140.3	2118.7	2101.9	2090.0	2081.3	2075.4	2075.4
27.5°	2209.2	2192.5	2172.8	2153.1	2142.3	2133.5	2129.4	2127.5
30°	2289.9	2274.1	2258.3	2239.7	2225.9	2217.0	2210.2	2204.4
32.5°	2393.4	2380.5	2367.8	2353.9	2341.2	2329.3	2318.4	2313.6
35°	2539.0	2529.2	2520.4	2504.6	2499.7	2492.7	2486.9	2481.8
37.5°	2739.9	2735.9	2735.9	2719.2	2715.2	2712.3	2706.4	2707.3
40°	3003.8	3007.6	3002.8	2996.8	2993.8	2986.0	2986.0	2992.9
42.5°	3315.7	3318.8	3329.6	3319.7	3330.6	3320.8	3314.7	3319.7
45°	3678.1	3688.9	3710.5	3700.7	3707.7	3690.9	3670.2	3671.3
47.5°	4084.7	4094.6	4103.4	4096.5	4097.4	4070.0	4042.4	4035.5
50°	4507.1	4511.0	4515.9	4506.1	4508.1	4477.5	4446.0	4447.0
52.5°	4924.5	4943.2	4962.9	4936.2	4930.3	4895.9	4851.6	4833.9
55°	5402.0	5428.5	5405.9	5359.6	5313.4	5267.0	5209.0	5199.1
57.5°	5990.6	5945.4	5874.5	5786.9	5722.9	5658.0	5598.9	5574.3
60°	6809.8	6639.5	6511.5	6381.5	6299.9	6220.0	6142.3	6130.5
62.5°	7967.5	7673.1	7418.3	7149.4	6929.9	6758.6	6621.8	6583.3
65°	9418.6	8722.6	8119.2	7556.1	7066.7	6697.6	6465.2	6362.9
67.5°	10042.8	8668.6	7633.7	6834.3	6194.4	5747.4	5496.5	5371.4
70°	8824.9	7188.7	6063.5	5263.1	4680.3	4203.8	3976.3	3842.5
72.5°	6071.4	4573.0	3616.0	2951.6	2485.9	2087.1	1929.6	1917.8
75°	2726.0	1805.6	1244.4	958.9	807.2	701.9	669.4	644.9
77.5°	763.0	564.1	503.1	470.6	439.1	402.7	388.8	391.8
80°	371.2	350.5	336.8	316.1	287.5	256.9	243.3	249.1
82.5°	246.1	243.3	252.1	237.2	195.9	166.4	139.7	128.0
85°	149.7	151.6	154.6	155.5	132.0	92.5	63.1	70.8
87.5°	59.1	67.9	73.8	76.7	71.9	44.2	35.5	36.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)