

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: P192761

Luminaire Tested: **GLEON-AF-03-LED-E1-RW-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-RW-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19709.3 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 191
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



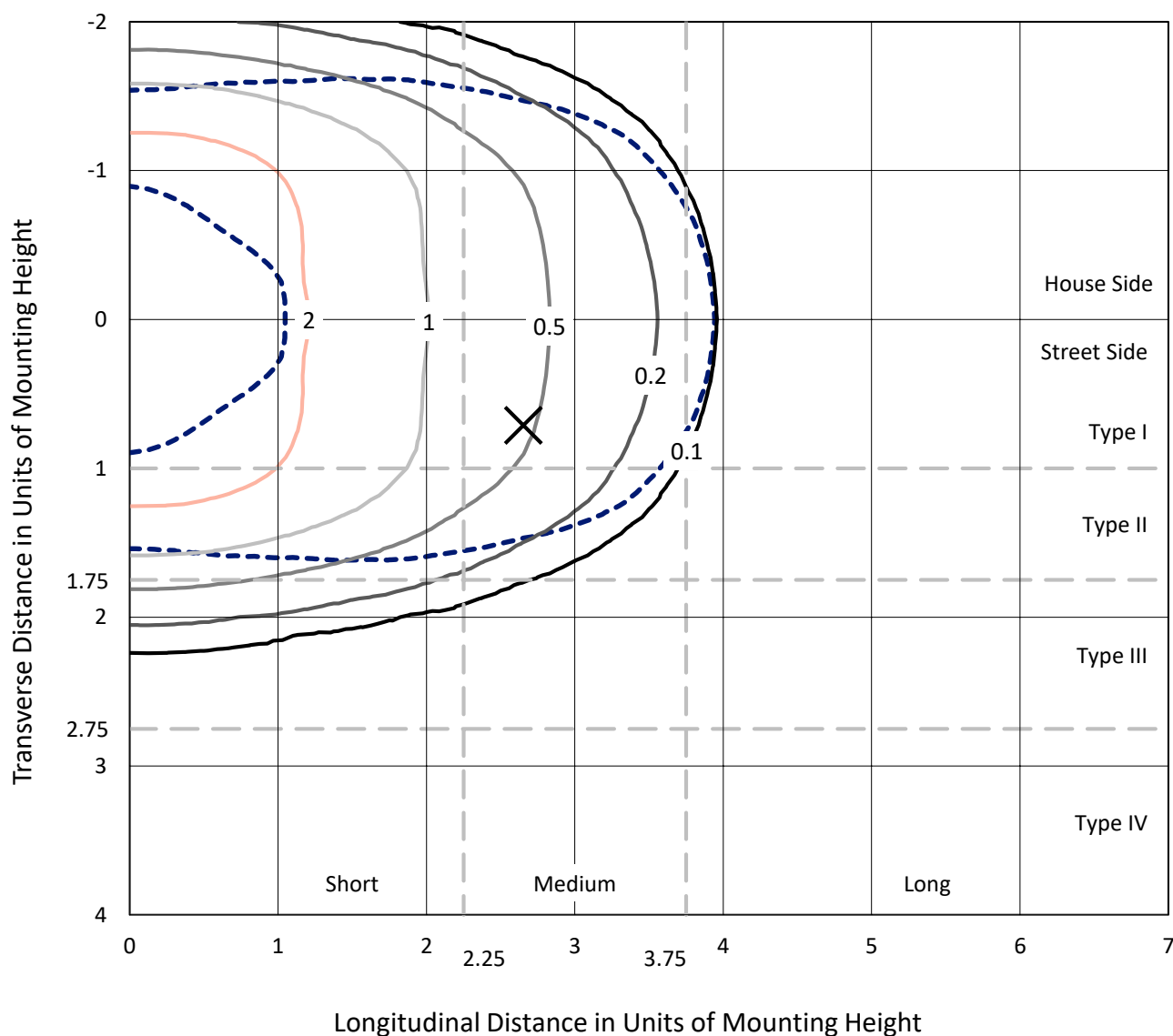
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

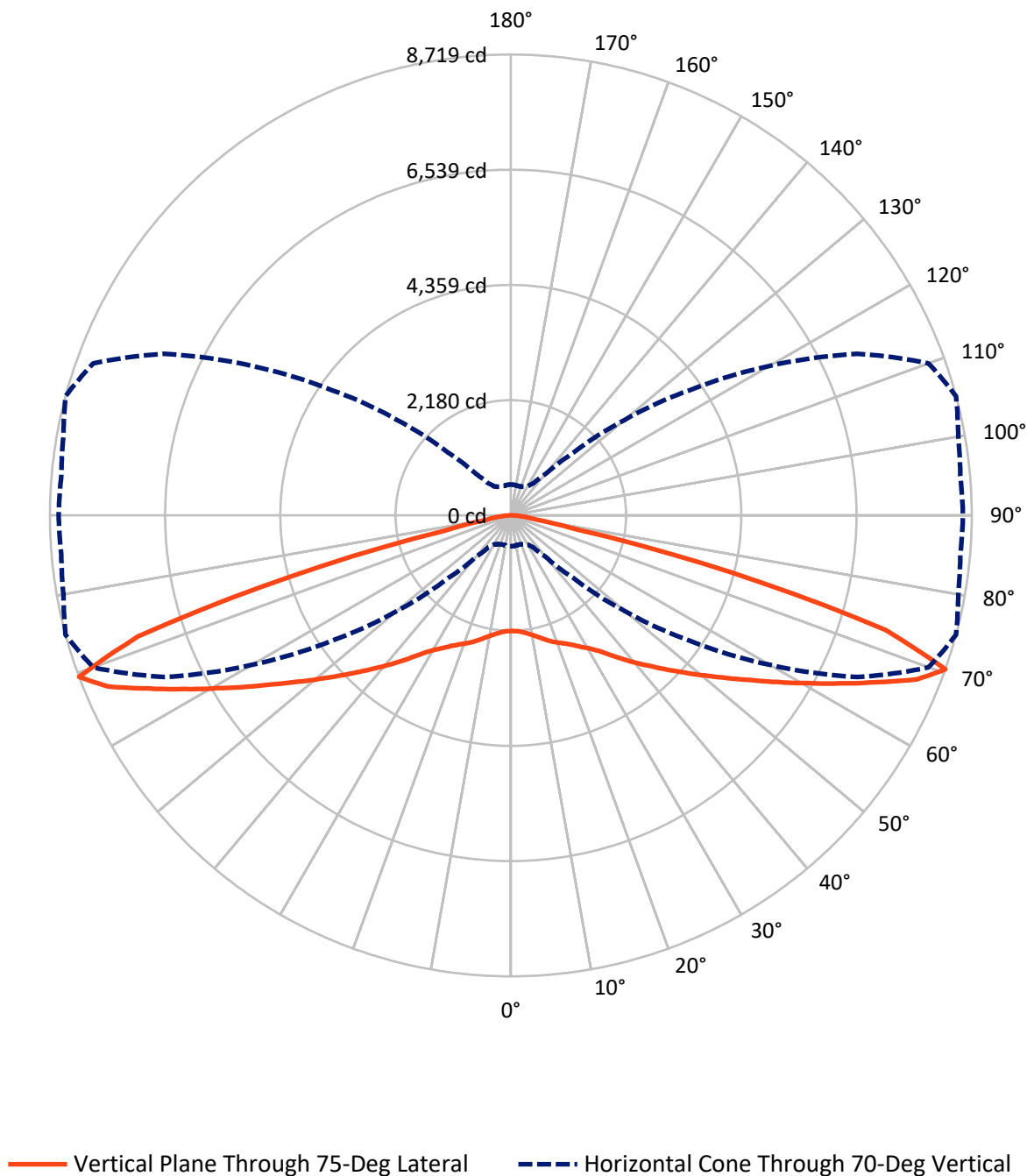


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9854.6	0.0	9854.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9854.6	0.0	9854.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	19709.3	0.0	19709.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	1.1
10°-20°	651.5	3.3
20°-30°	1226.2	6.2
30°-40°	2171.4	11.0
40°-50°	3631.2	18.4
50°-60°	5060.1	25.7
60°-70°	4692.5	23.8
70°-80°	1870.1	9.5
80°-90°	196.6	1.0
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°	19709.3	100.0
0°-180°	19709.3	100.0

Coefficient of Utilization



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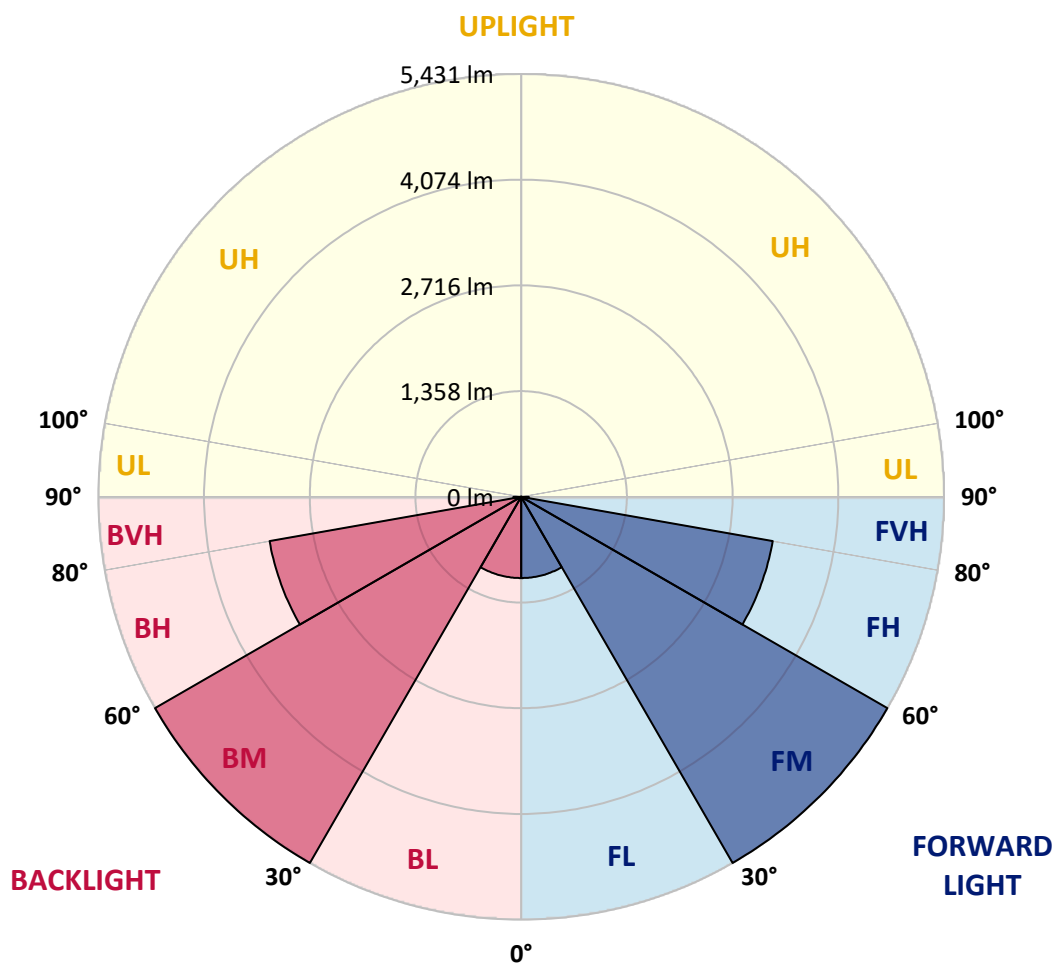
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1043.7	5.3			
FM	(30°-60°)	5431.4	27.6			
FH	(60°-80°)	3281.3	16.6			G2/5000
FVH	(80°-90°)	98.3	0.5			G1/100
BL	(0°-30°)	1043.7	5.3	B3/2500		
BM	(30°-60°)	5431.4	27.6	B4/8500		
BH	(60°-80°)	3281.3	16.6	B4/5000		G4/5000
BVH	(80°-90°)	98.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2186.2	2186.2	2186.2	2186.2	2186.2	2186.2	2186.2	2186.2	2186.2	2186.2	2186.2
2.5°	2182.5	2180.6	2182.5	2181.6	2183.4	2183.4	2185.3	2189.0	2189.0	2191.8	2190.8
5°	2161.0	2160.2	2162.9	2165.7	2168.5	2174.2	2179.7	2188.1	2194.6	2199.3	2203.9
7.5°	2119.2	2119.2	2122.9	2129.4	2135.9	2148.0	2161.0	2177.9	2194.6	2208.5	2220.7
10°	2084.6	2086.6	2091.2	2102.3	2113.5	2132.2	2149.9	2174.2	2197.4	2220.7	2239.3
12.5°	2064.2	2066.9	2075.4	2092.1	2110.8	2135.9	2162.9	2193.7	2219.7	2247.7	2266.4
15°	2070.7	2072.5	2084.6	2105.2	2129.4	2161.0	2197.4	2233.7	2264.5	2294.2	2319.5
17.5°	2107.1	2109.8	2123.8	2147.1	2172.3	2209.5	2248.7	2289.6	2327.8	2361.3	2392.1
20°	2172.3	2175.1	2192.8	2217.9	2247.7	2285.9	2325.0	2367.8	2410.7	2446.1	2480.6
22.5°	2264.5	2269.1	2285.9	2311.1	2344.6	2385.5	2432.1	2477.8	2518.8	2551.3	2582.2
25°	2385.5	2395.8	2411.7	2439.5	2474.9	2512.2	2562.5	2609.1	2648.2	2678.9	2701.3
27.5°	2557.0	2571.0	2583.0	2610.1	2644.5	2679.9	2730.2	2771.2	2808.5	2838.2	2855.1
30°	2784.3	2798.2	2810.3	2836.4	2868.0	2901.6	2949.1	2985.4	3008.8	3032.1	3031.1
32.5°	3060.0	3074.9	3079.5	3107.5	3140.1	3176.3	3219.3	3239.7	3258.3	3261.2	3244.4
35°	3368.3	3375.8	3394.3	3431.7	3468.9	3498.7	3539.7	3550.0	3550.0	3535.9	3498.7
37.5°	3706.4	3711.1	3737.1	3779.1	3817.3	3848.0	3876.0	3896.4	3886.3	3856.5	3794.0
40°	4077.1	4085.5	4122.8	4160.0	4202.8	4231.8	4261.5	4265.3	4255.1	4211.3	4126.5
42.5°	4431.1	4438.5	4475.8	4534.5	4590.4	4630.4	4658.4	4663.9	4631.4	4591.3	4486.0
45°	4735.8	4755.3	4803.7	4872.6	4953.7	5010.5	5048.7	5064.5	5035.6	4983.6	4861.5
47.5°	4977.0	4996.5	5065.5	5147.4	5248.0	5340.3	5403.6	5437.2	5429.6	5390.6	5257.3
50°	5154.0	5172.6	5247.0	5347.7	5465.0	5579.7	5687.7	5767.8	5795.7	5778.0	5656.1
52.5°	5174.4	5205.2	5292.7	5427.8	5580.6	5737.1	5890.8	6026.7	6118.9	6132.9	6042.6
55°	4888.5	4919.2	5040.3	5240.6	5467.9	5723.1	5969.1	6198.2	6379.7	6472.9	6425.4
57.5°	4214.1	4269.1	4396.7	4631.4	4965.9	5347.7	5739.8	6146.9	6516.8	6763.5	6811.1
60°	3229.4	3294.7	3423.2	3672.9	4045.5	4500.9	5024.5	5626.2	6279.2	6834.3	7166.0
62.5°	2071.7	2133.1	2268.2	2485.2	2788.9	3282.5	3844.3	4558.8	5436.2	6312.8	7102.6
65°	1064.7	1098.3	1169.1	1300.4	1537.0	1905.8	2409.8	3122.4	4125.6	5207.1	6349.0
67.5°	674.3	680.9	696.7	715.4	776.0	903.6	1138.3	1582.6	2408.0	3535.9	4872.6
70°	583.1	583.1	575.7	572.8	580.2	597.9	634.4	737.7	1016.2	1678.5	2810.3
72.5°	533.7	528.2	515.1	504.9	503.0	503.0	510.5	526.3	571.0	683.8	1100.1
75°	491.7	476.1	458.4	446.3	441.5	436.8	436.0	438.7	448.1	465.8	525.3
77.5°	440.7	420.1	399.6	387.6	381.9	375.5	369.9	363.3	358.6	364.2	390.3
80°	379.1	355.8	340.1	332.5	326.9	317.6	305.5	294.4	284.1	282.2	298.1
82.5°	305.5	278.5	279.4	282.2	271.9	259.0	246.0	233.9	216.2	206.8	216.2
85°	246.8	232.8	226.3	244.0	229.1	209.6	189.1	167.7	139.8	117.4	127.7
87.5°	95.9	95.9	143.4	220.8	198.5	162.0	138.8	118.3	73.6	56.9	57.8
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°	2186.2	2186.2	2186.2	2186.2	2186.2	2186.2	2186.2	2186.2
2.5°	2190.0	2191.8	2190.8	2190.0	2190.0	2189.0	2190.0	2190.0
5°	2206.7	2211.4	2211.4	2213.3	2213.3	2214.1	2215.1	2214.1
7.5°	2231.8	2240.3	2245.9	2252.4	2253.3	2254.2	2256.1	2254.2
10°	2257.0	2273.8	2285.9	2298.0	2303.6	2305.5	2307.3	2307.3
12.5°	2288.7	2311.9	2333.3	2354.9	2365.0	2370.7	2370.7	2374.4
15°	2340.9	2364.2	2389.3	2418.1	2435.8	2445.2	2448.0	2448.0
17.5°	2414.4	2435.0	2456.3	2484.3	2506.6	2518.8	2521.6	2520.6
20°	2500.2	2519.7	2531.7	2549.4	2569.0	2583.0	2586.7	2586.7
22.5°	2597.9	2609.1	2611.0	2616.5	2632.4	2651.0	2659.4	2661.2
25°	2706.1	2708.7	2701.3	2701.3	2711.6	2729.3	2737.7	2738.6
27.5°	2845.7	2831.8	2813.1	2806.6	2813.1	2833.6	2843.8	2847.7
30°	3019.9	2986.4	2943.6	2920.3	2916.4	2943.6	2962.1	2965.0
32.5°	3219.3	3170.8	3114.0	3066.5	3054.4	3071.2	3093.4	3092.6
35°	3455.9	3398.1	3329.1	3268.6	3240.6	3257.4	3289.1	3292.8
37.5°	3728.8	3653.3	3574.2	3497.7	3454.0	3458.6	3492.2	3503.4
40°	4033.5	3935.5	3835.9	3733.4	3671.0	3658.9	3699.8	3706.4
42.5°	4359.5	4233.7	4107.9	3981.2	3901.1	3882.4	3929.9	3927.3
45°	4706.9	4546.6	4399.5	4259.7	4164.8	4136.8	4175.9	4175.9
47.5°	5080.3	4882.9	4707.8	4549.4	4446.0	4406.0	4443.2	4446.0
50°	5476.3	5266.7	5060.8	4884.8	4760.9	4709.6	4758.0	4765.6
52.5°	5870.3	5666.3	5458.6	5257.3	5107.5	5044.9	5100.9	5125.2
55°	6269.9	6069.6	5871.3	5674.7	5496.8	5423.2	5482.7	5513.6
57.5°	6691.9	6506.5	6317.4	6118.9	5947.6	5833.1	5896.4	5937.3
60°	7186.5	7028.1	6831.6	6612.7	6439.4	6323.0	6359.3	6395.6
62.5°	7577.6	7639.2	7472.5	7219.1	6996.4	6847.4	6882.8	6921.0
65°	7388.6	8019.2	8167.3	7911.1	7603.0	7370.9	7356.0	7375.5
67.5°	6175.8	7400.6	8294.0	8538.1	8280.1	7957.8	7898.2	7927.0
70°	4131.2	5657.0	7233.1	8406.7	8718.8	8594.0	8535.4	8553.1
72.5°	1984.0	3294.7	4907.2	6467.4	7417.5	7853.4	7993.2	8061.1
75°	725.6	1307.9	2365.0	3563.9	4302.5	4980.7	5423.2	5603.9
77.5°	437.8	528.2	755.4	1137.4	1288.2	1442.0	1382.3	1412.1
80°	324.2	366.1	414.5	465.8	482.5	482.5	464.0	448.9
82.5°	227.3	254.2	277.6	305.5	313.0	299.1	246.0	195.6
85°	146.3	158.3	168.6	186.3	181.6	173.2	116.5	103.4
87.5°	67.0	76.4	80.1	88.5	84.7	81.1	57.8	48.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)