

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: P193417

Luminaire Tested: **GLEON-AF-09-LED-E1-5WQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193417
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-09-LED-E1-5WQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 30135 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 290
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

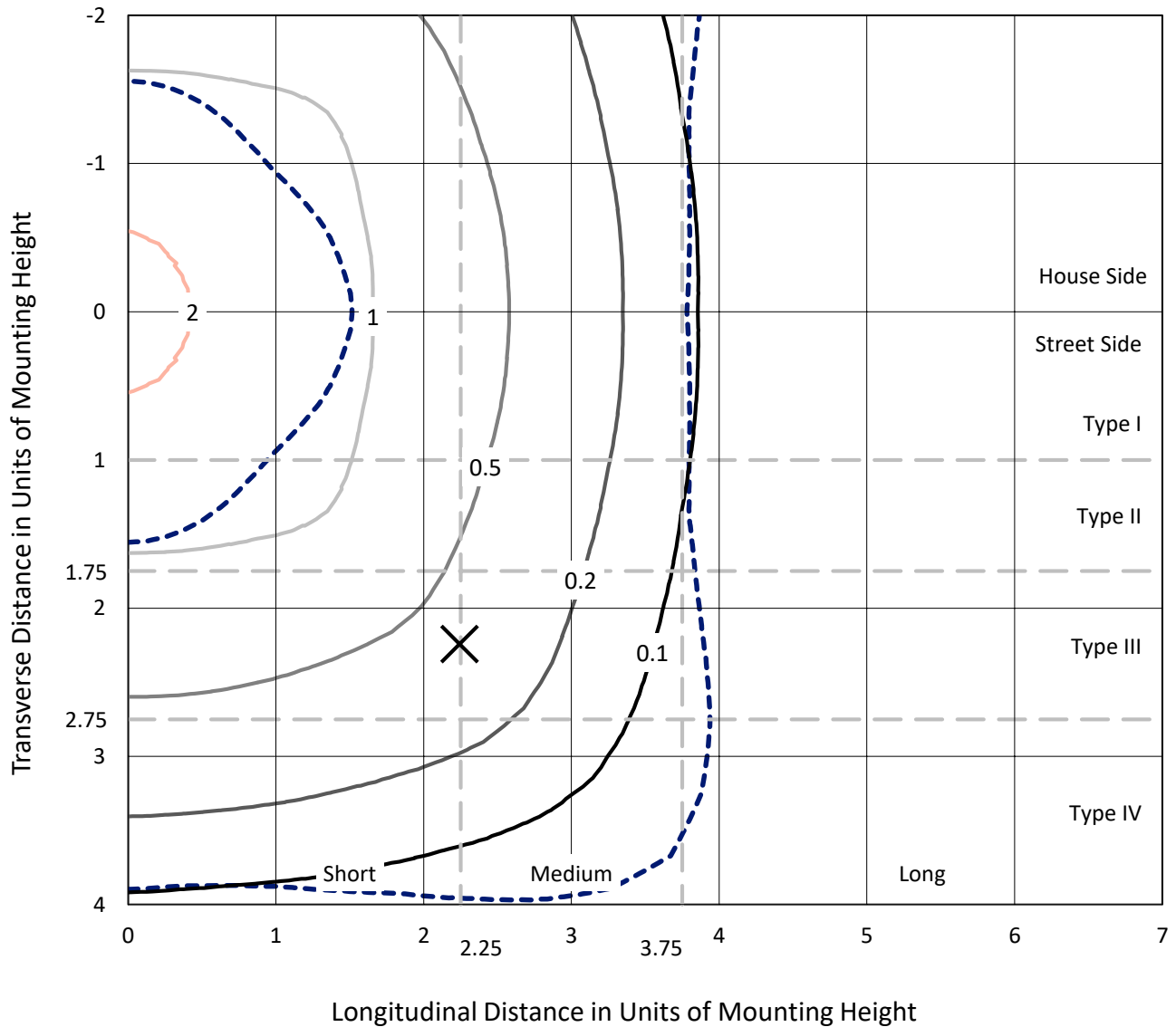


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

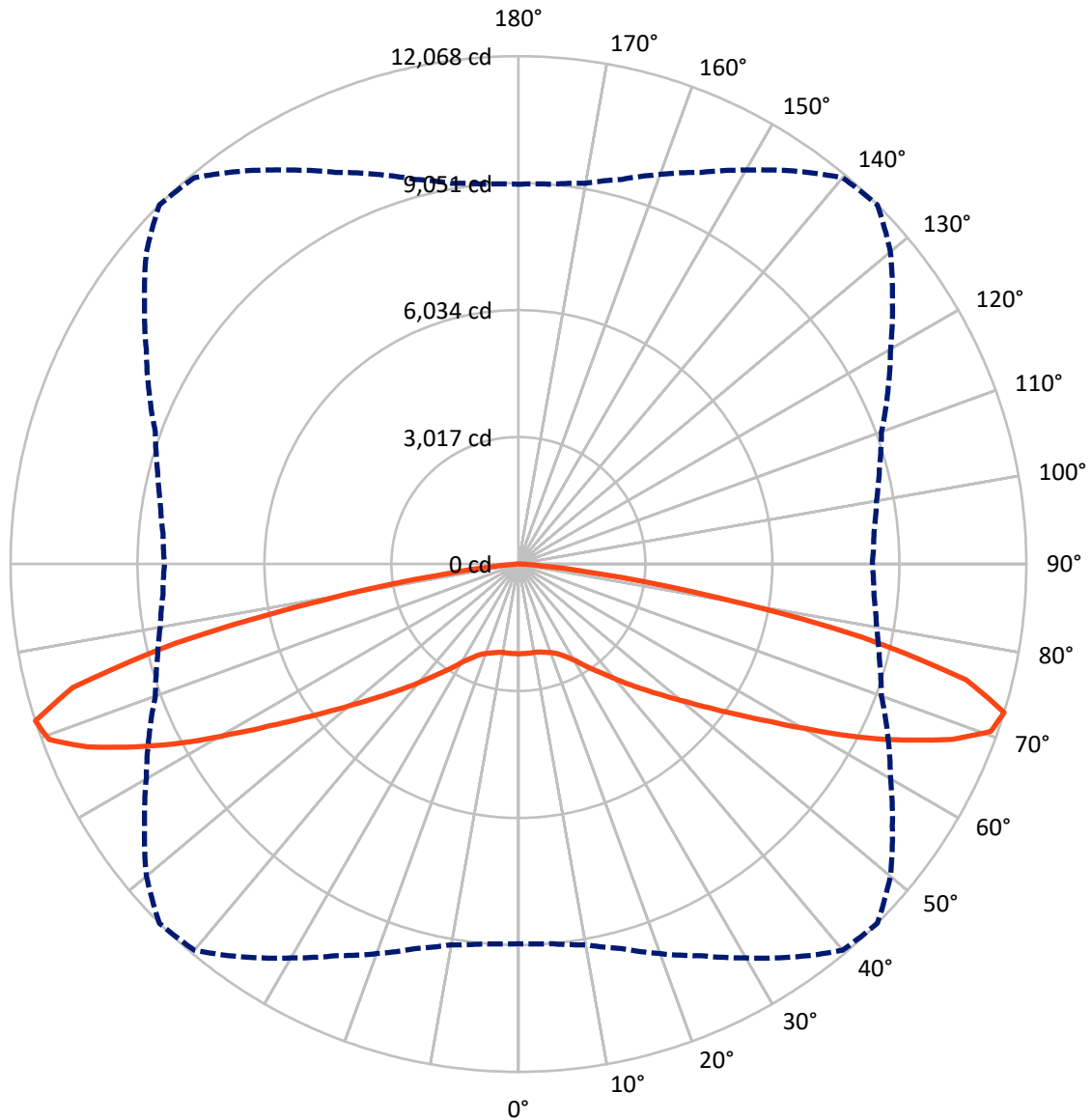


Based on 30 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Semi-Cutoff

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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
House Side	Lumens	15067.5	0.0	15067.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15067.5	0.0	15067.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30135.0	0.0	30135.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.8	0.7
10°-20°	618.9	2.1
20°-30°	1131.0	3.8
30°-40°	1950.0	6.5
40°-50°	3333.4	11.1
50°-60°	5403.1	17.9
60°-70°	8963.5	29.7
70°-80°	7894.8	26.2
80°-90°	636.5	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°	30135.0	100.0
0°-180°	30135.0	100.0



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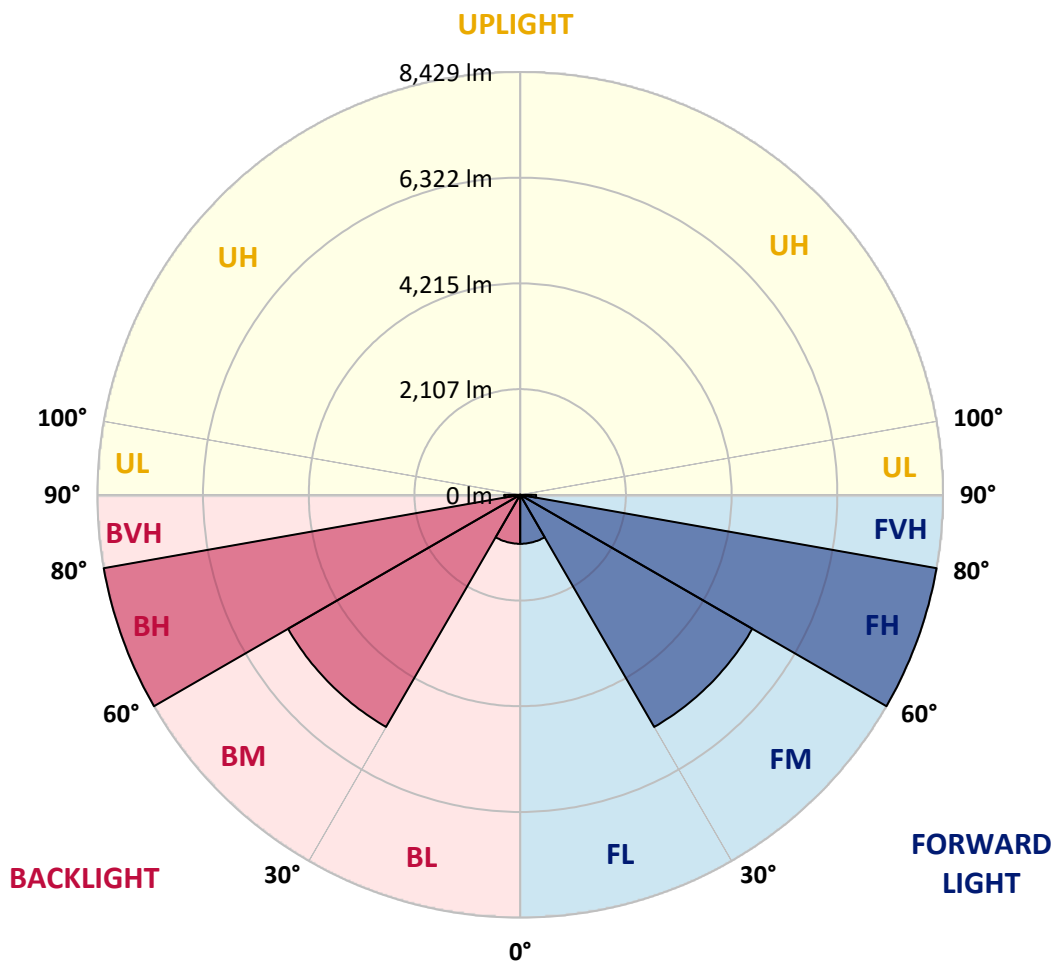
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	976.8	3.2			
FM	(30°-60°)	5343.3	17.7			
FH	(60°-80°)	8429.2	28.0			G4/12000
FVH	(80°-90°)	318.3	1.1			G3/500
BL	(0°-30°)	976.8	3.2	B2/1000		
BM	(30°-60°)	5343.3	17.7	B4/8500		
BH	(60°-80°)	8429.2	28.0	B5		G4/12000
BVH	(80°-90°)	318.3	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°	2134.0	2134.0	2134.0	2134.0	2134.0	2134.0	2134.0	2134.0	2134.0	2134.0	2134.0
2.5°	2134.0	2135.4	2136.8	2135.4	2135.4	2134.0	2132.6	2134.0	2132.6	2129.9	2131.3
5°	2140.9	2143.7	2143.7	2140.9	2142.3	2140.9	2138.2	2139.6	2136.8	2132.6	2132.6
7.5°	2149.2	2150.6	2150.6	2147.8	2149.2	2146.5	2143.7	2142.3	2139.6	2134.0	2129.9
10°	2161.7	2163.1	2161.7	2158.9	2158.9	2154.8	2147.8	2145.1	2139.6	2131.3	2127.1
12.5°	2175.5	2176.9	2175.5	2172.7	2171.3	2164.4	2158.9	2154.8	2150.6	2143.7	2136.8
15°	2194.8	2197.6	2194.8	2189.3	2185.2	2179.6	2176.9	2178.3	2179.6	2174.1	2167.2
17.5°	2230.8	2232.2	2228.0	2215.6	2210.0	2204.5	2204.5	2207.3	2211.4	2208.7	2201.8
20°	2297.1	2293.0	2283.3	2268.1	2261.2	2251.5	2250.1	2251.5	2251.5	2250.1	2244.6
22.5°	2380.0	2377.3	2364.8	2345.5	2335.8	2330.3	2322.0	2315.1	2313.7	2309.6	2304.0
25°	2479.6	2478.2	2463.0	2446.4	2439.5	2432.6	2425.7	2416.0	2407.7	2398.0	2392.5
27.5°	2606.7	2601.2	2579.1	2570.8	2561.1	2557.0	2547.3	2536.2	2529.3	2516.9	2510.0
30°	2746.3	2746.3	2728.3	2725.6	2725.6	2715.9	2704.9	2685.5	2673.1	2660.6	2656.5
32.5°	2885.9	2887.3	2869.3	2874.9	2879.0	2885.9	2888.7	2881.8	2873.5	2872.1	2863.8
35°	3087.7	3082.2	3064.2	3068.4	3067.0	3065.6	3065.6	3080.8	3083.6	3086.3	3069.7
37.5°	3337.9	3337.9	3319.9	3319.9	3311.6	3303.3	3292.3	3301.9	3317.1	3321.3	3310.2
40°	3624.0	3633.6	3611.5	3610.2	3612.9	3586.7	3574.2	3589.4	3599.1	3615.7	3603.2
42.5°	3961.2	3954.3	3932.2	3929.4	3914.2	3905.9	3894.9	3907.3	3922.5	3933.6	3937.7
45°	4284.6	4279.1	4254.2	4254.2	4239.0	4232.1	4237.6	4258.4	4265.3	4280.5	4295.7
47.5°	4603.9	4597.0	4580.4	4587.3	4588.7	4601.1	4619.1	4638.5	4657.8	4678.5	4685.5
50°	4930.1	4931.5	4913.5	4930.1	4950.8	4985.4	5033.8	5065.5	5105.6	5131.9	5140.2
52.5°	5227.3	5232.8	5252.1	5290.8	5332.3	5400.0	5483.0	5560.4	5626.7	5670.9	5668.2
55°	5583.9	5592.1	5639.1	5705.5	5773.2	5875.5	5998.5	6135.3	6245.9	6309.5	6269.4
57.5°	6040.0	6057.9	6110.4	6200.3	6301.2	6433.9	6602.5	6808.4	6979.8	7065.5	7000.5
60°	6666.1	6677.1	6740.7	6840.2	6961.8	7126.3	7351.6	7628.0	7869.9	7983.2	7908.6
62.5°	7491.2	7511.9	7563.1	7664.0	7788.4	7975.0	8250.0	8595.5	8896.8	9054.4	8885.8
65°	8476.7	8543.0	8585.9	8688.1	8804.2	9001.9	9289.4	9659.8	9983.2	10086.9	9892.0
67.5°	9452.5	9510.5	9585.1	9702.6	9820.1	10042.6	10309.4	10668.7	11024.0	11117.9	10815.3
70°	9879.5	9912.7	10028.8	10189.1	10414.4	10677.0	10985.3	11388.8	11828.4	11905.8	11521.5
72.5°	9024.0	9057.2	9187.1	9459.4	9851.9	10269.3	10807.0	11399.9	11980.4	12067.5	11538.1
75°	6825.0	6771.1	6963.2	7324.0	7853.3	8435.2	9187.1	10037.1	10876.1	10985.3	10353.6
77.5°	3527.2	3520.3	3665.4	4113.3	4744.9	5406.9	6234.8	7195.4	8016.4	8348.1	7834.0
80°	993.8	1004.8	1073.9	1296.4	1665.5	2143.7	2790.5	3690.3	4362.0	4704.8	4417.3
82.5°	389.8	420.2	446.4	487.9	536.3	606.8	809.9	1205.2	1617.1	1932.2	1582.6
85°	139.6	149.3	211.5	250.2	254.3	268.1	305.5	356.6	429.8	512.8	421.6
87.5°	52.5	58.0	67.7	112.0	110.6	100.9	123.0	128.5	96.7	88.5	109.2
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°	2134.0	2134.0	2134.0	2134.0	2134.0	2134.0	2134.0	2134.0
2.5°	2128.5	2129.9	2129.9	2131.3	2132.6	2132.6	2135.4	2135.4
5°	2129.9	2129.9	2127.1	2128.5	2127.1	2127.1	2128.5	2128.5
7.5°	2127.1	2125.7	2123.0	2121.6	2118.8	2118.8	2118.8	2118.8
10°	2123.0	2121.6	2118.8	2117.4	2116.1	2116.1	2116.1	2116.1
12.5°	2134.0	2129.9	2127.1	2125.7	2125.7	2125.7	2125.7	2125.7
15°	2163.1	2153.4	2146.5	2146.5	2147.8	2150.6	2150.6	2153.4
17.5°	2199.0	2187.9	2181.0	2175.5	2178.3	2182.4	2185.2	2187.9
20°	2241.8	2236.3	2226.6	2221.1	2221.1	2226.6	2229.4	2230.8
22.5°	2301.3	2297.1	2293.0	2286.1	2286.1	2288.8	2294.4	2294.4
25°	2389.7	2387.0	2384.2	2378.7	2377.3	2377.3	2380.0	2382.8
27.5°	2500.3	2501.7	2498.9	2497.5	2493.4	2492.0	2496.1	2494.8
30°	2648.2	2655.1	2662.0	2656.5	2649.6	2645.4	2641.3	2635.7
32.5°	2848.6	2840.3	2834.8	2825.1	2812.7	2801.6	2793.3	2783.6
35°	3037.9	3024.1	3018.6	3026.9	3025.5	3018.6	3008.9	3000.6
37.5°	3270.1	3267.4	3270.1	3285.3	3282.6	3289.5	3270.1	3268.8
40°	3563.2	3565.9	3585.3	3603.2	3612.9	3622.6	3611.5	3600.5
42.5°	3903.2	3901.8	3908.7	3933.6	3950.2	3961.2	3937.7	3935.0
45°	4262.5	4252.8	4258.4	4279.1	4295.7	4308.1	4281.9	4281.9
47.5°	4657.8	4641.2	4623.3	4646.8	4656.4	4664.7	4644.0	4637.1
50°	5098.7	5064.2	5025.5	5035.1	5035.1	5032.4	5006.1	5004.7
52.5°	5604.6	5541.0	5470.5	5444.3	5429.1	5412.5	5366.9	5344.7
55°	6186.5	6091.1	5980.5	5912.8	5876.9	5831.3	5755.2	5734.5
57.5°	6866.5	6717.2	6526.5	6443.5	6363.4	6288.7	6204.4	6180.9
60°	7672.3	7452.5	7199.6	7046.2	6959.1	6887.2	6800.1	6796.0
62.5°	8570.7	8223.7	7937.6	7799.4	7735.8	7672.3	7589.3	7600.4
65°	9484.3	9122.1	8854.0	8742.0	8682.6	8630.1	8547.2	8559.6
67.5°	10385.4	10052.3	9757.9	9643.2	9576.9	9510.5	9435.9	9448.3
70°	11032.3	10619.0	10287.3	10033.0	9874.0	9694.3	9578.2	9549.2
72.5°	10847.0	10209.9	9683.3	9178.8	8883.0	8642.5	8479.4	8408.9
75°	9387.5	8516.8	7839.5	7220.3	6872.0	6588.7	6382.7	6254.2
77.5°	6971.5	5993.0	5192.7	4479.5	3915.6	3536.9	3270.1	3097.4
80°	3816.1	2902.5	2121.6	1491.3	1096.0	910.8	804.4	753.3
82.5°	1188.6	767.1	565.3	487.9	453.3	434.0	402.2	351.1
85°	378.7	331.7	308.2	294.4	280.6	244.6	168.6	153.4
87.5°	146.5	150.7	149.3	141.0	143.7	103.7	82.9	73.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)