

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: P190884

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190884
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-06-LED-E1-5WQ-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30992.3 lumens
Efficiency: N/A
Efficacy: 124.5 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

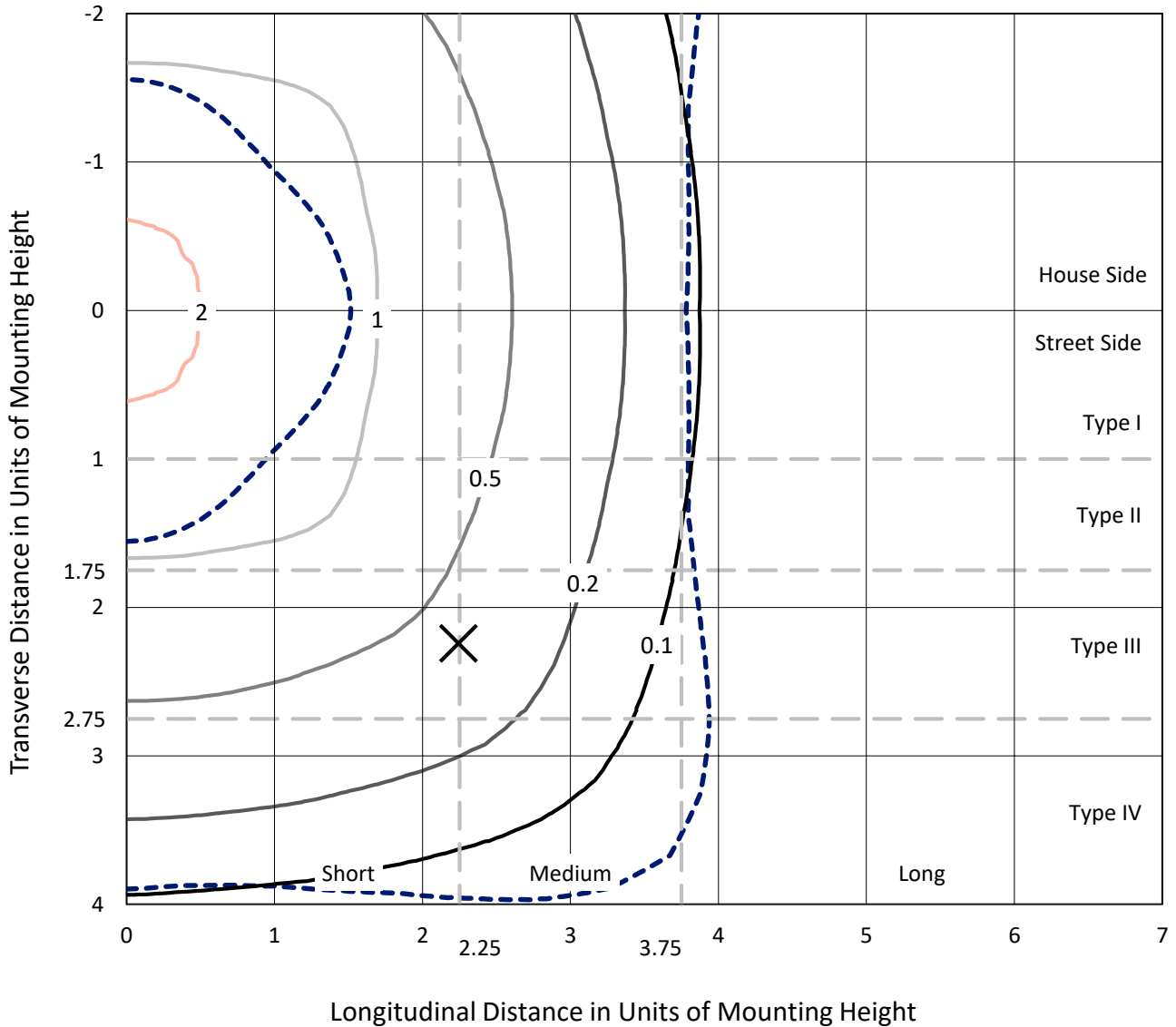
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

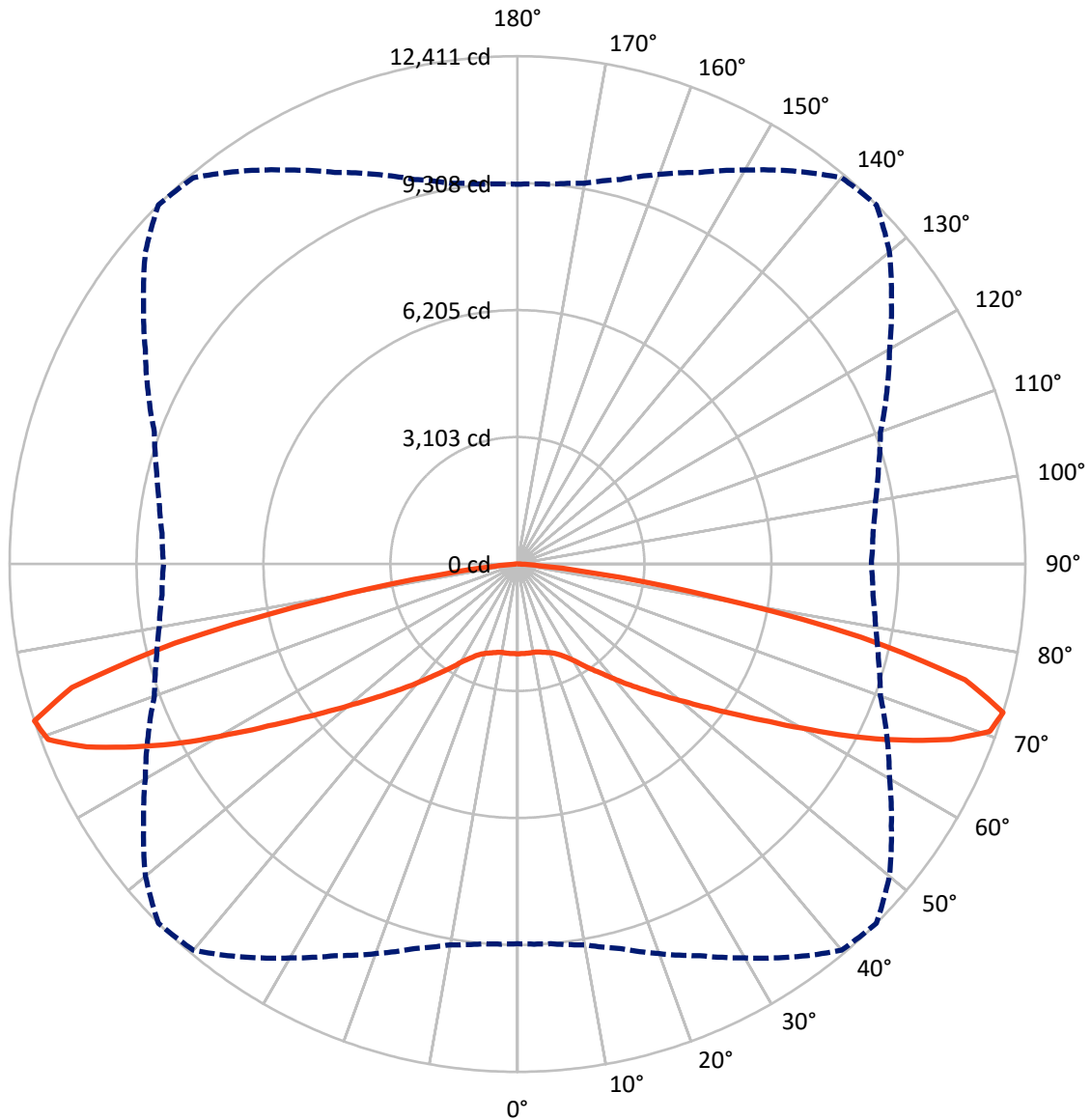
✕ Max cd
 - - - 1/2 Max cd



Based on 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	15496.2	0.0	15496.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15496.2	0.0	15496.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	30992.3	0.0	30992.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.6	0.7
10°-20°	636.5	2.1
20°-30°	1163.1	3.8
30°-40°	2005.4	6.5
40°-50°	3428.3	11.1
50°-60°	5556.8	17.9
60°-70°	9218.6	29.7
70°-80°	8119.4	26.2
80°-90°	654.6	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°	30992.3	100.0
0°-180°	30992.3	100.0



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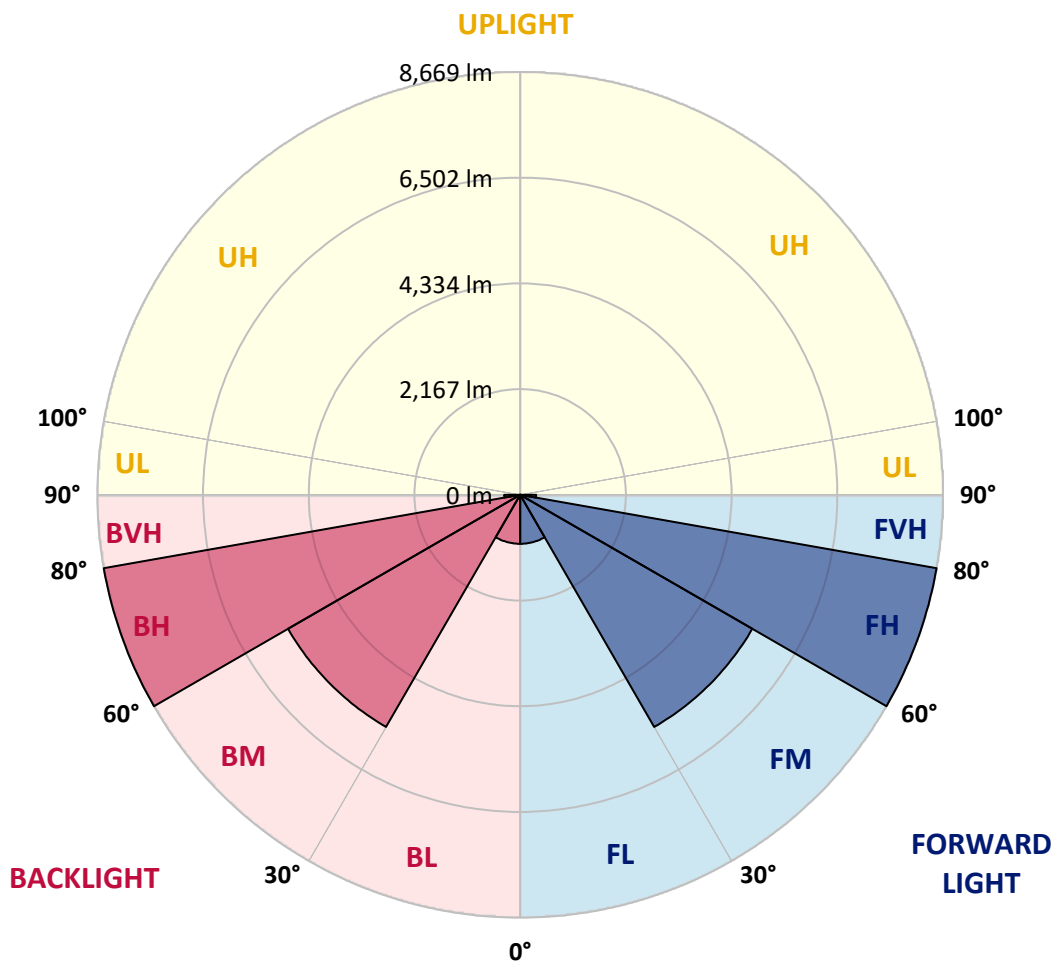
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1004.6	3.2			
FM	(30°-60°)	5495.3	17.7			
FH	(60°-80°)	8669.0	28.0			G4/12000
FVH	(80°-90°)	327.3	1.1			G3/500
BL	(0°-30°)	1004.6	3.2	B3/2500		
BM	(30°-60°)	5495.3	17.7	B4/8500		
BH	(60°-80°)	8669.0	28.0	B5		G4/12000
BVH	(80°-90°)	327.3	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°	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7
2.5°	2194.7	2196.2	2197.6	2196.2	2196.2	2194.7	2193.3	2194.7	2193.3	2190.4	2191.9
5°	2201.8	2204.7	2204.7	2201.8	2203.2	2201.8	2199.0	2200.5	2197.6	2193.3	2193.3
7.5°	2210.4	2211.8	2211.8	2209.0	2210.4	2207.5	2204.7	2203.2	2200.5	2194.7	2190.4
10°	2223.2	2224.6	2223.2	2220.3	2220.3	2216.0	2209.0	2206.1	2200.5	2191.9	2187.7
12.5°	2237.4	2238.8	2237.4	2234.5	2233.1	2226.0	2220.3	2216.0	2211.8	2204.7	2197.6
15°	2257.2	2260.1	2257.2	2251.6	2247.3	2241.7	2238.8	2240.3	2241.7	2236.0	2228.8
17.5°	2294.3	2295.7	2291.4	2278.6	2272.9	2267.3	2267.3	2270.0	2274.3	2271.5	2264.4
20°	2362.5	2358.2	2348.3	2332.6	2325.5	2315.6	2314.1	2315.6	2315.6	2314.1	2308.5
22.5°	2447.7	2445.0	2432.2	2412.2	2402.3	2396.6	2388.1	2380.9	2379.5	2375.3	2369.6
25°	2550.1	2548.7	2533.0	2515.9	2508.9	2501.7	2494.7	2484.7	2476.2	2466.2	2460.5
27.5°	2680.8	2675.2	2652.4	2643.9	2634.0	2629.7	2619.8	2608.4	2601.3	2588.5	2581.4
30°	2824.5	2824.5	2806.0	2803.1	2803.1	2793.2	2781.8	2761.9	2749.1	2736.3	2732.1
32.5°	2968.0	2969.4	2951.0	2956.6	2960.9	2968.0	2970.9	2963.8	2955.2	2953.8	2945.3
35°	3175.5	3169.8	3151.4	3155.6	3154.3	3152.8	3152.8	3168.5	3171.2	3174.1	3157.0
37.5°	3432.8	3432.8	3414.4	3414.4	3405.8	3397.3	3386.0	3395.9	3411.5	3415.7	3404.4
40°	3727.1	3737.0	3714.3	3712.9	3715.7	3688.7	3675.9	3691.5	3701.4	3718.5	3705.7
42.5°	4073.9	4066.8	4044.0	4041.3	4025.6	4017.0	4005.7	4018.5	4034.1	4045.5	4049.8
45°	4406.6	4400.8	4375.3	4375.3	4359.6	4352.6	4358.2	4379.6	4386.6	4402.3	4417.9
47.5°	4734.9	4727.8	4710.7	4717.8	4719.3	4732.1	4750.5	4770.4	4790.4	4811.7	4818.7
50°	5070.4	5071.8	5053.3	5070.4	5091.6	5127.2	5176.9	5209.7	5250.9	5277.9	5286.4
52.5°	5376.0	5381.6	5401.6	5441.4	5484.0	5553.7	5638.9	5718.5	5786.7	5832.3	5829.4
55°	5742.7	5751.2	5799.6	5867.9	5937.4	6042.7	6169.1	6309.9	6423.6	6489.0	6447.8
57.5°	6211.8	6230.3	6284.3	6376.7	6480.5	6617.0	6790.3	7002.1	7178.4	7266.5	7199.7
60°	6855.7	6867.1	6932.4	7034.8	7159.9	7329.0	7560.7	7845.0	8093.8	8210.4	8133.6
62.5°	7704.4	7725.6	7778.2	7882.0	8009.9	8201.8	8484.8	8840.0	9150.0	9312.0	9138.6
65°	8717.8	8786.0	8830.1	8935.3	9054.8	9258.0	9553.6	9934.6	10267.3	10373.8	10173.5
67.5°	9721.4	9781.0	9857.9	9978.7	10099.5	10328.3	10602.7	10972.3	11337.6	11434.2	11123.0
70°	10160.7	10194.7	10314.1	10479.0	10710.7	10980.8	11297.8	11712.9	12164.9	12244.5	11849.4
72.5°	9280.7	9314.9	9448.5	9728.5	10132.2	10561.5	11114.5	11724.2	12321.2	12410.7	11866.3
75°	7019.2	6963.7	7161.4	7532.3	8076.7	8675.2	9448.5	10322.7	11185.5	11297.8	10648.2
77.5°	3627.6	3620.4	3769.7	4230.3	4879.9	5560.8	6412.3	7400.1	8244.5	8585.6	8056.9
80°	1022.0	1033.4	1104.5	1333.3	1712.8	2204.7	2869.9	3795.4	4486.2	4838.7	4543.0
82.5°	400.9	432.1	459.1	501.8	551.6	624.0	833.0	1239.5	1663.1	1987.2	1627.6
85°	143.5	153.5	217.5	257.3	261.6	275.8	314.1	366.7	442.1	527.3	433.5
87.5°	54.0	59.7	69.7	115.2	113.8	103.7	126.5	132.2	99.5	90.9	112.3
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°	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7
2.5°	2189.0	2190.4	2190.4	2191.9	2193.3	2193.3	2196.2	2196.2
5°	2190.4	2190.4	2187.7	2189.0	2187.7	2187.7	2189.0	2189.0
7.5°	2187.7	2186.3	2183.4	2182.0	2179.1	2179.1	2179.1	2179.1
10°	2183.4	2182.0	2179.1	2177.7	2176.2	2176.2	2176.2	2176.2
12.5°	2194.7	2190.4	2187.7	2186.3	2186.3	2186.3	2186.3	2186.3
15°	2224.6	2214.7	2207.5	2207.5	2209.0	2211.8	2211.8	2214.7
17.5°	2261.5	2250.2	2243.0	2237.4	2240.3	2244.5	2247.3	2250.2
20°	2305.6	2299.9	2290.0	2284.2	2284.2	2290.0	2292.8	2294.3
22.5°	2366.7	2362.5	2358.2	2351.2	2351.2	2353.9	2359.6	2359.6
25°	2457.7	2454.9	2452.0	2446.4	2445.0	2445.0	2447.7	2450.6
27.5°	2571.4	2572.8	2570.0	2568.6	2564.3	2562.9	2567.2	2565.8
30°	2723.5	2730.7	2737.7	2732.1	2724.9	2720.6	2716.4	2710.7
32.5°	2929.6	2921.1	2915.4	2905.5	2892.7	2881.3	2872.8	2862.8
35°	3124.4	3110.2	3104.5	3113.0	3111.6	3104.5	3094.5	3086.0
37.5°	3363.2	3360.3	3363.2	3378.8	3375.9	3383.1	3363.2	3361.7
40°	3664.5	3667.4	3687.2	3705.7	3715.7	3725.7	3714.3	3702.9
42.5°	4014.2	4012.8	4019.9	4045.5	4062.5	4073.9	4049.8	4046.9
45°	4383.8	4373.8	4379.6	4400.8	4417.9	4430.7	4403.7	4403.7
47.5°	4790.4	4773.3	4754.8	4778.9	4788.9	4797.4	4776.2	4769.0
50°	5243.7	5208.3	5168.5	5178.4	5178.4	5175.5	5148.5	5147.1
52.5°	5764.0	5698.7	5626.1	5599.1	5583.5	5566.5	5519.5	5496.8
55°	6362.4	6264.3	6150.7	6081.0	6044.1	5997.2	5919.0	5897.6
57.5°	7061.8	6908.3	6712.2	6626.9	6544.4	6467.6	6381.0	6356.8
60°	7890.5	7664.6	7404.4	7246.6	7157.1	7083.1	6993.6	6989.3
62.5°	8814.5	8457.7	8163.5	8021.4	7955.9	7890.5	7805.2	7816.7
65°	9754.0	9381.7	9105.9	8990.7	8929.6	8875.6	8790.3	8803.1
67.5°	10680.8	10338.4	10035.6	9917.5	9849.3	9781.0	9704.3	9717.1
70°	11346.2	10921.1	10580.0	10318.4	10154.9	9970.2	9850.7	9820.8
72.5°	11155.7	10500.4	9958.7	9439.9	9135.8	8888.4	8720.7	8648.2
75°	9654.6	8759.0	8062.5	7425.7	7067.5	6776.1	6564.3	6432.1
77.5°	7169.9	6163.5	5340.4	4607.0	4027.1	3637.5	3363.2	3185.5
80°	3924.7	2985.1	2182.0	1533.7	1127.2	936.7	827.3	774.7
82.5°	1222.4	788.9	581.3	501.8	466.3	446.3	413.7	361.1
85°	389.4	341.2	317.0	302.8	288.6	251.6	173.4	157.7
87.5°	150.7	155.0	153.5	145.0	147.8	106.6	85.3	75.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)