

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: P269128

Luminaire Tested: **GLEON-AF-03-LED-E1-5NQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-E1-5NQ-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17865.9 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

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

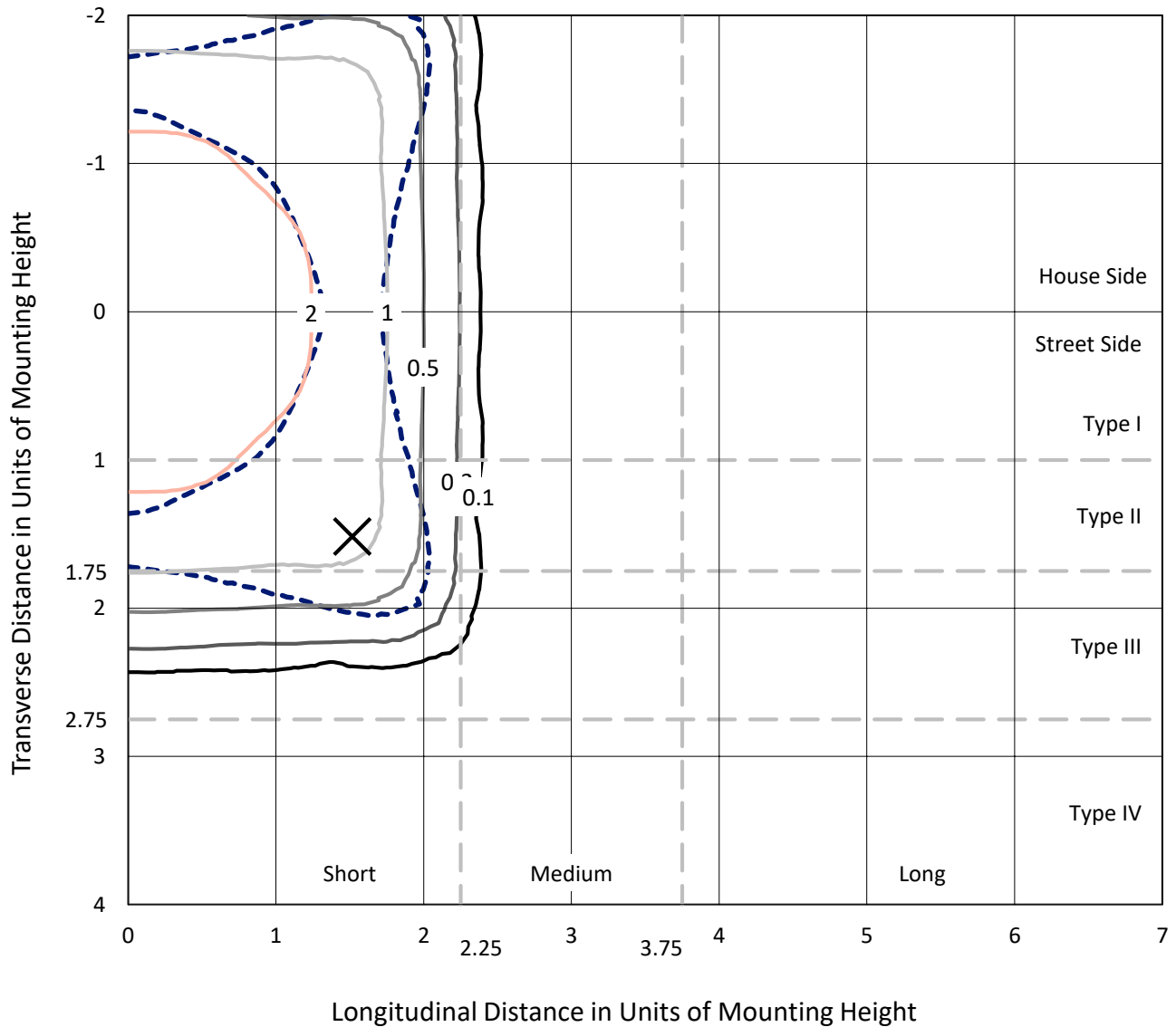


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Iso-Footcandle Lines of Horizontal Illumination

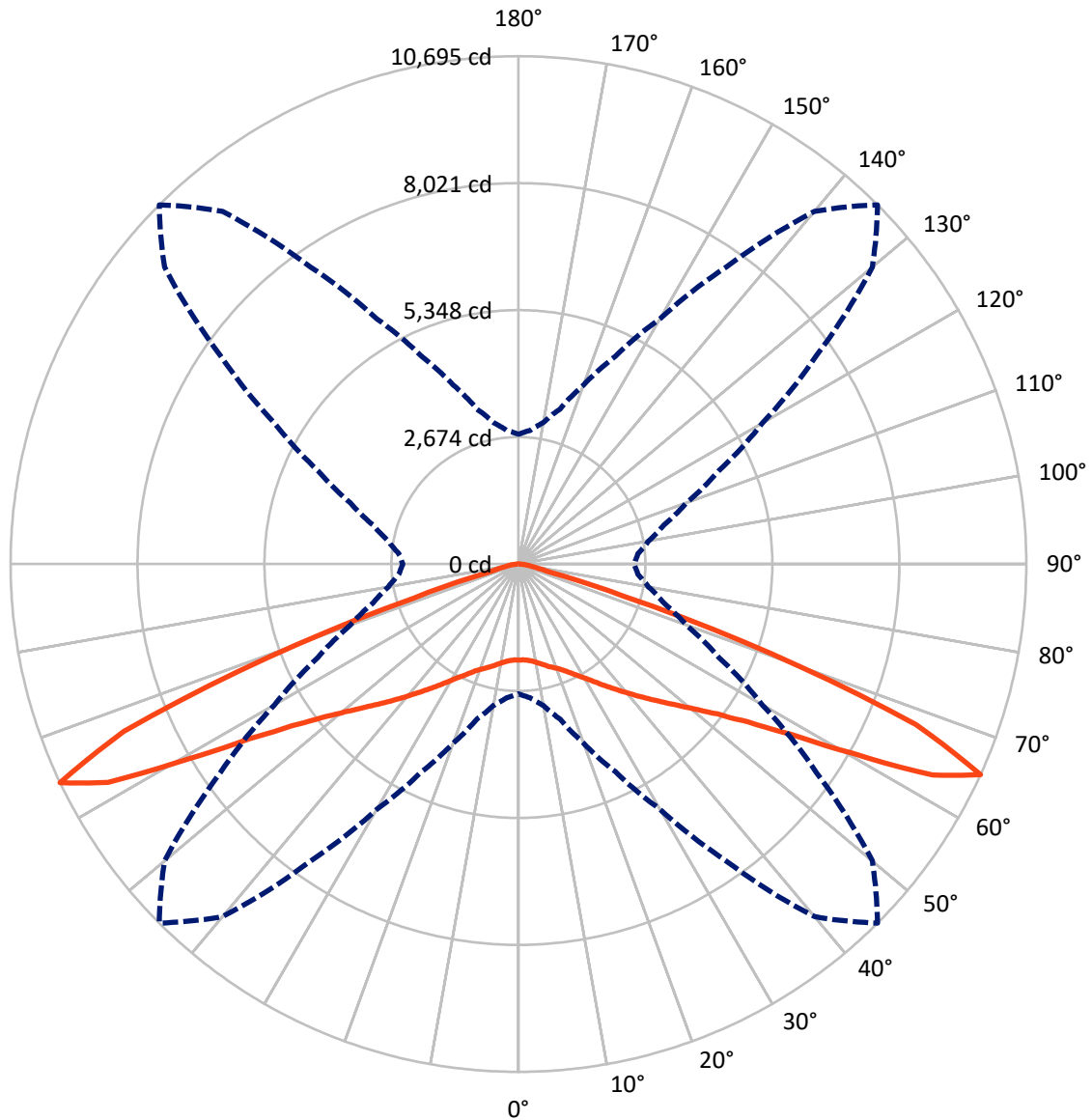
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8932.9	0.0	8932.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8932.9	0.0	8932.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	17865.9	0.0	17865.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.0	1.1
10°-20°	631.9	3.5
20°-30°	1181.6	6.6
30°-40°	1998.4	11.2
40°-50°	3267.6	18.3
50°-60°	5196.0	29.1
60°-70°	4696.8	26.3
70°-80°	594.4	3.3
80°-90°	102.2	0.6
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°	17865.9	100.0
0°-180°	17865.9	100.0



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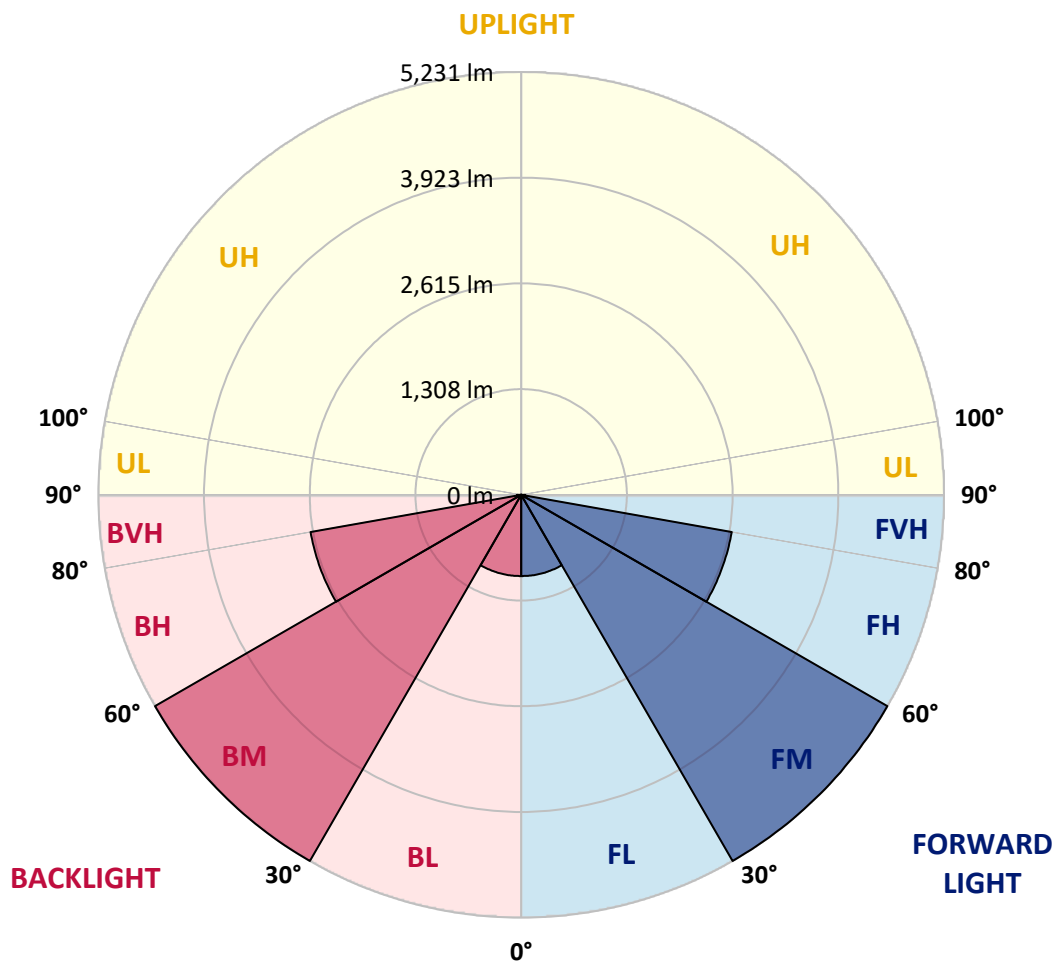
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1005.3	5.6			
FM	(30°-60°)	5231.0	29.3			
FH	(60°-80°)	2645.6	14.8			G2/5000
FVH	(80°-90°)	51.1	0.3			G1/100
BL	(0°-30°)	1005.3	5.6	B3/2500		
BM	(30°-60°)	5231.0	29.3	B4/8500		
BH	(60°-80°)	2645.6	14.8	B4/5000		G2/5000
BVH	(80°-90°)	51.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2021.5	2021.5	2021.5	2021.5	2021.5	2021.5	2021.5	2021.5	2021.5	2021.5	2021.5
2.5°	2023.3	2024.9	2026.5	2024.9	2026.5	2024.1	2022.4	2024.9	2022.4	2019.8	2021.5
5°	2040.8	2041.6	2041.6	2039.2	2041.6	2040.0	2037.4	2040.8	2038.3	2035.7	2037.4
7.5°	2070.1	2073.4	2071.0	2068.3	2070.1	2068.3	2066.7	2067.5	2066.7	2064.2	2065.1
10°	2109.4	2111.9	2110.2	2109.4	2111.0	2110.2	2108.5	2107.8	2108.5	2106.0	2106.0
12.5°	2157.1	2156.2	2155.5	2156.2	2158.7	2158.7	2157.9	2158.7	2160.5	2161.2	2159.5
15°	2203.9	2205.6	2205.6	2205.6	2210.5	2214.9	2217.3	2219.1	2222.3	2223.1	2219.8
17.5°	2262.6	2262.6	2261.8	2262.6	2267.5	2274.1	2276.8	2280.1	2283.4	2285.9	2281.8
20°	2327.8	2329.5	2329.5	2331.1	2337.7	2345.4	2345.4	2347.0	2345.4	2347.0	2344.5
22.5°	2407.3	2412.3	2412.3	2413.1	2419.9	2429.0	2426.5	2429.0	2424.9	2428.2	2424.9
25°	2511.0	2518.6	2517.0	2517.0	2521.9	2527.8	2528.5	2533.6	2532.9	2537.0	2534.5
27.5°	2628.3	2639.8	2643.3	2642.4	2645.8	2651.5	2653.2	2659.2	2655.7	2659.2	2657.5
30°	2768.8	2773.7	2780.4	2782.9	2787.1	2793.0	2793.0	2793.9	2789.6	2794.6	2797.2
32.5°	2914.3	2923.5	2930.2	2945.4	2952.8	2957.0	2956.1	2957.8	2953.6	2960.4	2965.3
35°	3106.8	3113.4	3124.3	3136.1	3146.1	3145.2	3142.8	3143.6	3143.6	3149.5	3154.5
37.5°	3338.6	3340.2	3354.5	3371.2	3376.2	3371.2	3356.1	3352.7	3345.3	3352.7	3361.2
40°	3583.7	3589.5	3618.1	3629.0	3631.4	3622.1	3600.4	3587.9	3571.1	3580.4	3592.1
42.5°	3840.6	3852.3	3878.3	3897.4	3905.8	3900.0	3869.9	3850.7	3828.8	3833.8	3845.6
45°	4125.0	4139.3	4176.1	4194.5	4210.4	4201.3	4171.9	4142.7	4108.4	4110.9	4129.2
47.5°	4443.0	4457.3	4504.9	4535.9	4544.3	4542.5	4510.0	4469.7	4423.0	4421.3	4437.2
50°	4799.5	4813.7	4873.1	4920.7	4945.1	4942.6	4904.0	4847.2	4790.3	4791.1	4811.2
52.5°	5147.6	5165.2	5227.1	5309.1	5356.8	5391.1	5367.6	5314.1	5244.7	5246.3	5264.6
55°	5473.9	5503.1	5574.3	5685.6	5774.2	5870.6	5898.1	5896.5	5854.7	5866.3	5884.6
57.5°	5632.1	5675.5	5785.2	5960.9	6141.6	6337.5	6503.1	6626.8	6679.5	6759.0	6740.7
60°	5332.5	5401.9	5563.5	5821.9	6179.3	6587.6	7025.1	7452.8	7817.6	8092.8	7934.6
62.5°	4366.0	4456.4	4652.2	4983.5	5524.0	6177.6	7015.1	8025.8	9127.0	9791.3	9317.0
65°	2731.9	2825.6	3024.8	3379.6	4012.1	4824.5	5960.9	7636.0	9693.5	10695.1	9729.5
67.5°	1065.2	1116.2	1224.1	1450.9	1926.1	2649.1	3789.5	5690.7	8151.4	9029.1	7999.9
70°	533.9	538.9	558.9	600.7	702.8	912.9	1389.0	2638.2	4674.8	5646.2	4506.6
72.5°	385.7	386.6	396.6	414.9	447.6	494.4	584.8	807.4	1520.3	2323.6	1424.9
75°	295.4	298.6	304.5	314.5	332.2	355.5	388.2	465.2	576.5	668.6	562.2
77.5°	227.6	234.3	238.5	247.7	258.5	274.4	283.7	312.9	364.0	383.2	377.4
80°	173.3	179.0	188.3	195.8	203.3	210.8	207.5	221.0	247.7	263.6	255.2
82.5°	110.4	117.1	143.9	150.6	154.0	159.0	153.2	154.0	165.6	175.7	165.6
85°	71.1	75.3	91.2	99.5	100.4	103.8	101.2	95.4	95.4	87.0	97.8
87.5°	32.6	33.4	41.1	48.5	50.2	45.2	44.3	42.7	34.3	32.6	35.2
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°	2021.5	2021.5	2021.5	2021.5	2021.5	2021.5	2021.5	2021.5
2.5°	2020.6	2022.4	2023.3	2025.7	2026.5	2026.5	2027.4	2029.1
5°	2036.5	2039.2	2040.0	2043.3	2044.2	2043.3	2044.9	2045.8
7.5°	2065.1	2069.2	2071.0	2074.2	2071.8	2075.1	2076.0	2076.0
10°	2106.9	2111.0	2111.9	2115.2	2113.6	2115.2	2115.2	2113.6
12.5°	2162.1	2162.9	2160.5	2162.9	2159.5	2161.2	2158.7	2157.1
15°	2223.1	2220.7	2214.9	2214.9	2209.8	2210.5	2209.8	2208.9
17.5°	2282.7	2277.6	2273.4	2271.8	2267.5	2266.8	2264.2	2264.2
20°	2347.9	2345.4	2342.8	2339.5	2335.4	2331.1	2330.4	2332.0
22.5°	2426.5	2425.7	2425.7	2423.9	2418.1	2413.9	2411.5	2411.5
25°	2532.0	2524.3	2524.3	2523.6	2521.1	2518.6	2513.5	2516.1
27.5°	2650.8	2646.5	2649.9	2649.1	2646.5	2646.5	2643.3	2643.3
30°	2797.2	2795.5	2800.6	2796.3	2788.0	2787.1	2783.8	2779.6
32.5°	2966.3	2964.5	2972.0	2967.0	2953.6	2946.1	2939.4	2936.1
35°	3154.5	3155.2	3164.5	3161.1	3146.1	3141.1	3129.3	3127.7
37.5°	3360.3	3373.7	3389.6	3393.0	3380.4	3377.1	3364.5	3357.8
40°	3602.2	3619.7	3644.0	3649.9	3636.3	3634.0	3616.3	3607.1
42.5°	3859.8	3889.9	3920.1	3925.1	3911.7	3898.4	3881.5	3874.8
45°	4147.7	4183.6	4222.9	4233.1	4213.0	4197.1	4175.3	4175.3
47.5°	4470.7	4515.8	4560.2	4587.7	4569.4	4552.6	4526.6	4510.0
50°	4852.1	4914.1	4971.8	5000.2	4971.0	4939.2	4894.1	4879.0
52.5°	5330.8	5397.7	5448.0	5432.9	5387.8	5343.4	5294.0	5273.9
55°	5941.6	5964.1	5964.1	5907.3	5817.0	5742.4	5664.6	5638.8
57.5°	6705.6	6618.5	6484.7	6314.7	6101.4	5915.7	5790.1	5730.7
60°	7603.3	7185.1	6712.2	6247.8	5866.3	5551.6	5365.0	5279.8
62.5°	8201.6	7107.2	6159.9	5414.4	4865.6	4486.6	4228.9	4128.4
65°	7665.2	5927.3	4658.9	3767.0	3168.7	2782.9	2527.8	2434.0
67.5°	5614.4	3714.2	2480.8	1778.0	1302.8	1039.2	934.6	891.1
70°	2520.3	1307.8	801.6	625.8	539.7	495.3	476.1	469.5
72.5°	759.7	549.8	463.5	418.4	384.0	362.2	346.3	344.7
75°	458.6	381.5	338.9	312.2	290.3	272.7	264.5	261.9
77.5°	320.4	280.4	260.1	240.9	224.2	210.8	203.3	197.4
80°	225.0	205.8	196.5	185.8	174.9	162.4	151.5	146.5
82.5°	150.6	146.5	146.5	139.7	130.6	118.8	97.0	92.0
85°	97.0	96.2	97.8	95.4	88.8	76.1	62.7	59.4
87.5°	45.2	46.1	51.1	50.2	48.5	40.2	31.8	30.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)