

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: P191002

Luminaire Tested: **GLEON-AF-04-LED-E1-RW-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191002  
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-04-LED-E1-RW-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20285.1 lumens  
Efficiency: N/A  
Efficacy: 118.6 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): 171  
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

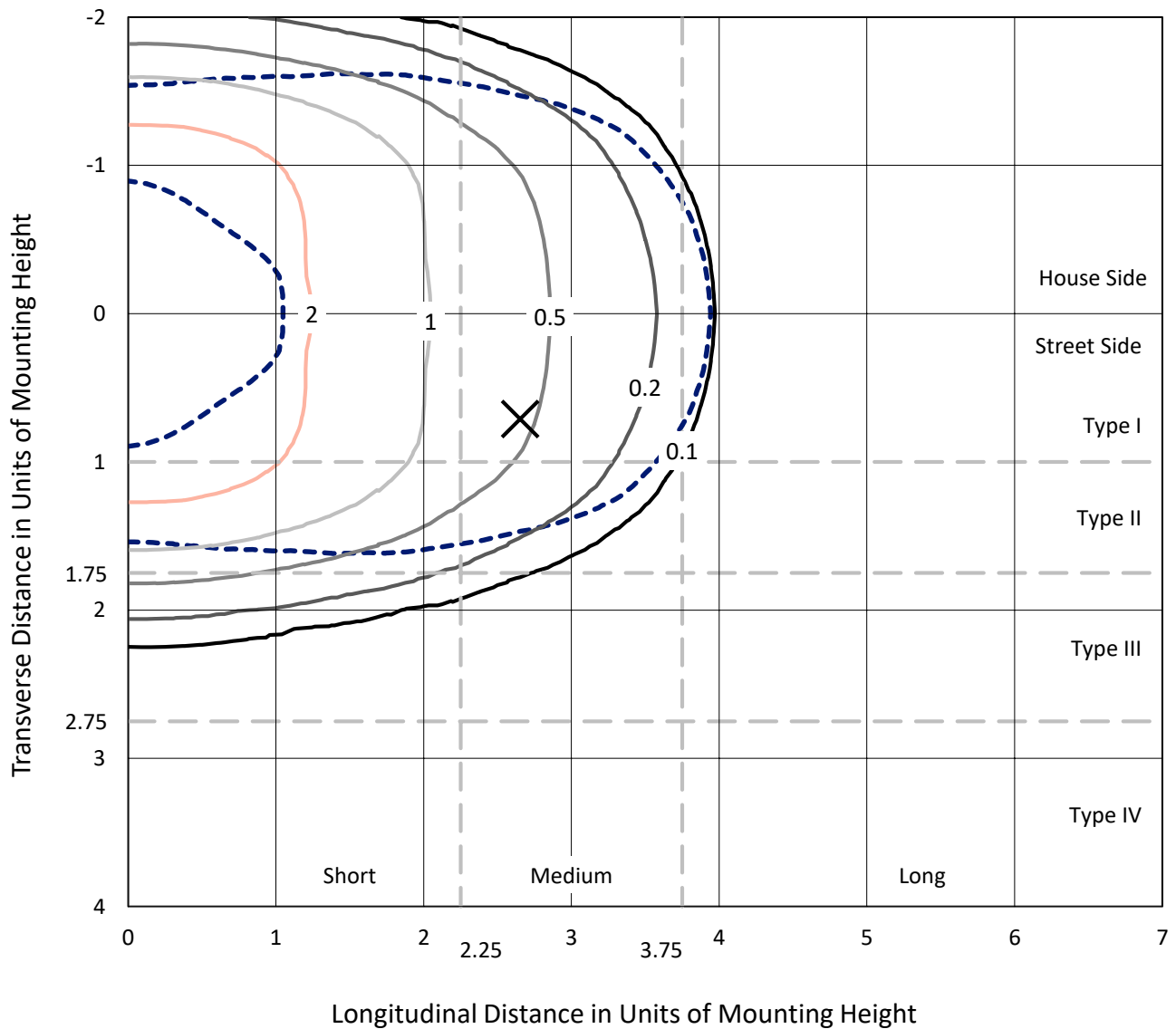


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

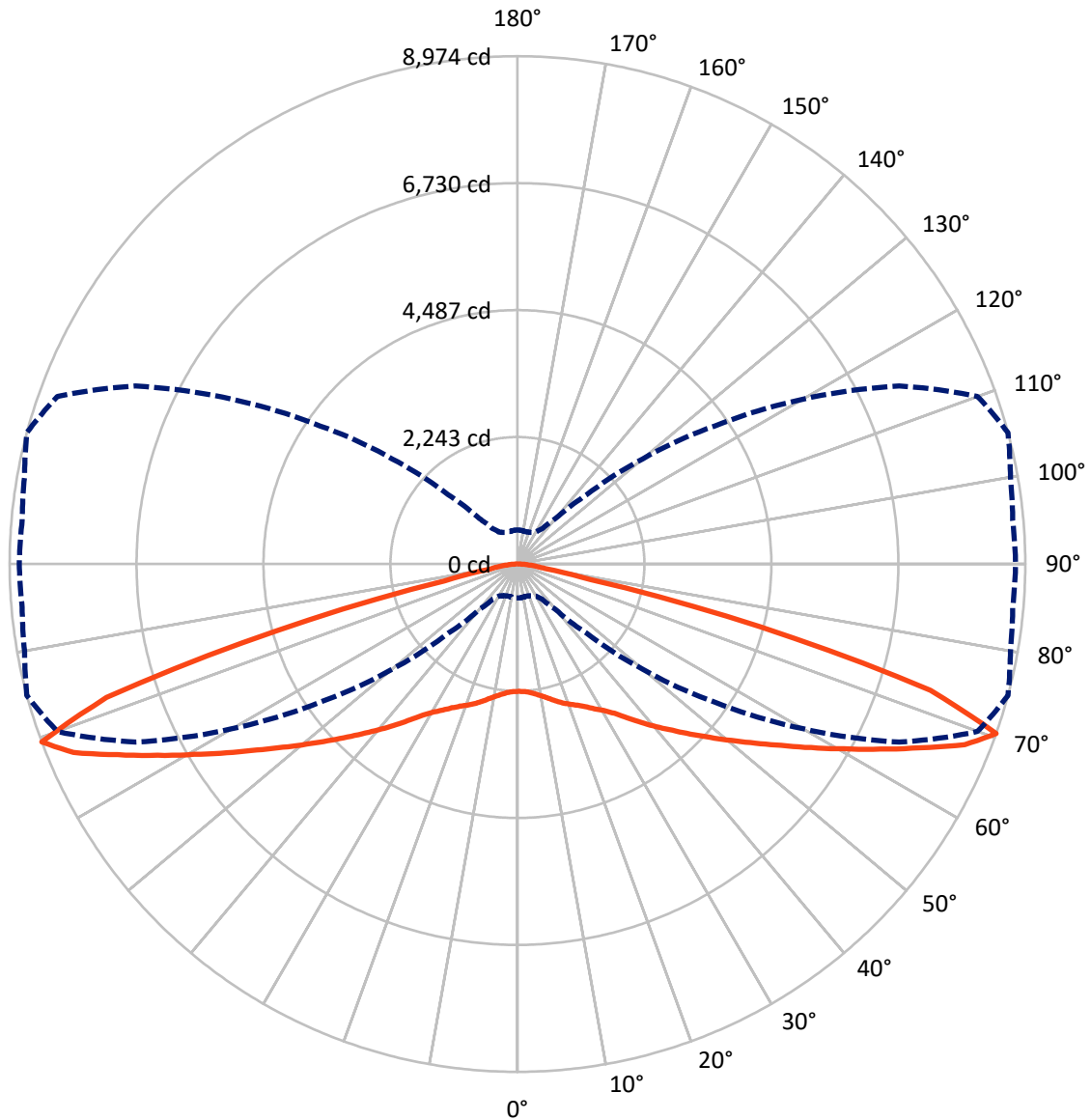


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10142.6	0.0	10142.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10142.6	0.0	10142.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20285.1	0.0	20285.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.8	1.1
10°-20°	670.5	3.3
20°-30°	1262.0	6.2
30°-40°	2234.8	11.0
40°-50°	3737.3	18.4
50°-60°	5208.0	25.7
60°-70°	4829.6	23.8
70°-80°	1924.7	9.5
80°-90°	202.3	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°	20285.1	100.0
0°-180°	20285.1	100.0



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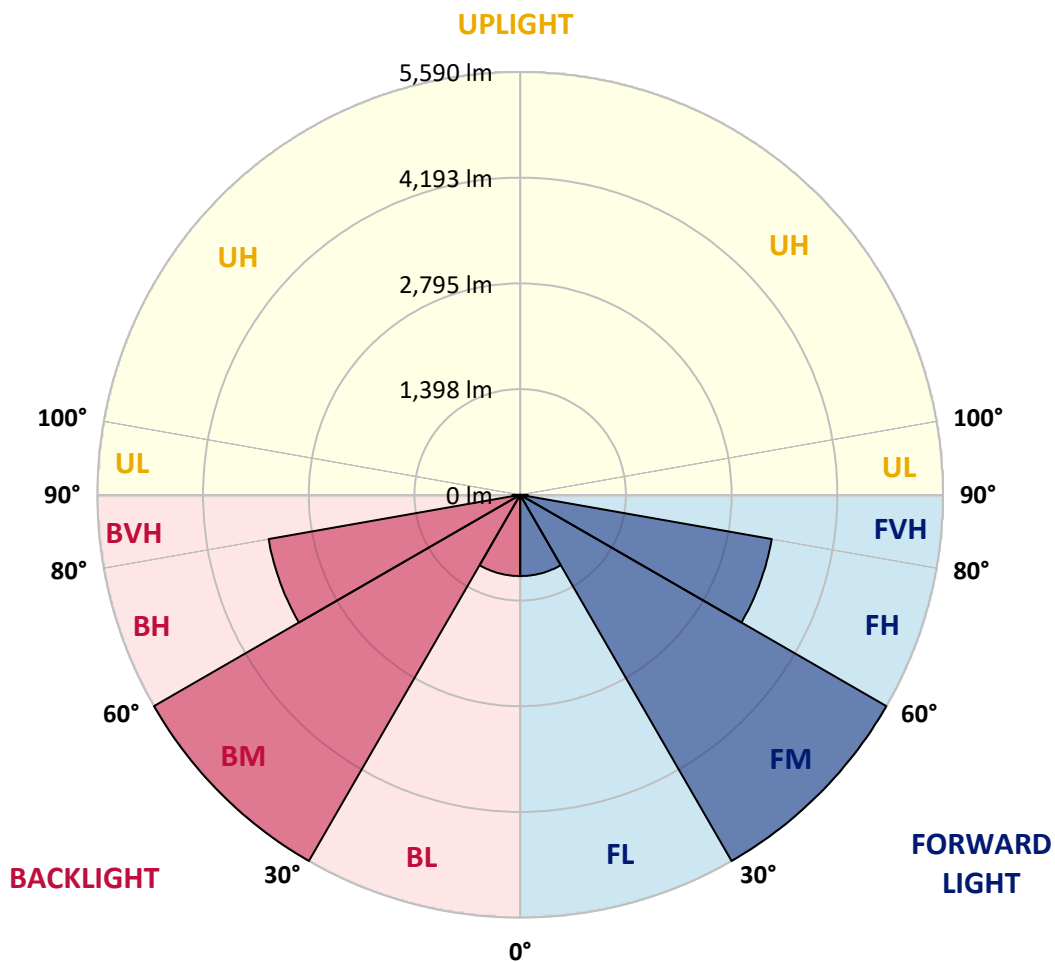
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1074.2	5.3			
FM	(30°-60°)	5590.1	27.6			
FH	(60°-80°)	3377.2	16.6			G2/5000
FVH	(80°-90°)	101.2	0.5			G2/225
BL	(0°-30°)	1074.2	5.3	B3/2500		
BM	(30°-60°)	5590.1	27.6	B4/8500		
BH	(60°-80°)	3377.2	16.6	B4/5000		G4/5000
BVH	(80°-90°)	101.2	0.5			G2/225
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°	2250.1	2250.1	2250.1	2250.1	2250.1	2250.1	2250.1	2250.1	2250.1	2250.1	2250.1
2.5°	2246.3	2244.4	2246.3	2245.3	2247.2	2247.2	2249.2	2252.9	2252.9	2255.8	2254.9
5°	2224.2	2223.3	2226.1	2229.0	2231.9	2237.6	2243.3	2252.0	2258.7	2263.5	2268.3
7.5°	2181.0	2181.0	2184.9	2191.6	2198.3	2210.8	2224.2	2241.5	2258.7	2273.1	2285.6
10°	2145.6	2147.5	2152.3	2163.8	2175.3	2194.5	2212.7	2237.6	2261.6	2285.6	2304.7
12.5°	2124.5	2127.3	2136.0	2153.3	2172.4	2198.3	2226.1	2257.8	2284.6	2313.4	2332.5
15°	2131.2	2133.2	2145.6	2166.7	2191.6	2224.2	2261.6	2299.0	2330.6	2361.3	2387.2
17.5°	2168.6	2171.5	2185.8	2209.8	2235.8	2274.0	2314.3	2356.5	2395.9	2430.3	2461.9
20°	2235.8	2238.6	2256.8	2282.7	2313.4	2352.7	2393.0	2437.1	2481.2	2517.6	2553.1
22.5°	2330.6	2335.4	2352.7	2378.6	2413.0	2455.3	2503.2	2550.2	2592.4	2625.9	2657.5
25°	2455.3	2465.8	2482.1	2510.8	2547.2	2585.6	2637.4	2685.3	2725.7	2757.3	2780.3
27.5°	2631.6	2646.1	2658.5	2686.3	2721.8	2758.2	2809.9	2852.2	2890.6	2921.1	2938.4
30°	2865.6	2879.9	2892.4	2919.3	2951.8	2986.4	3035.3	3072.6	3096.7	3120.6	3119.6
32.5°	3149.4	3164.7	3169.5	3198.3	3231.8	3269.2	3313.3	3334.4	3353.5	3356.4	3339.2
35°	3466.7	3474.4	3493.6	3531.8	3570.2	3600.9	3643.1	3653.7	3653.7	3639.2	3600.9
37.5°	3814.7	3819.5	3846.3	3889.5	3928.7	3960.5	3989.2	4010.3	3999.7	3969.0	3904.8
40°	4196.2	4204.9	4243.2	4281.6	4325.6	4355.4	4386.1	4389.9	4379.4	4334.3	4247.1
42.5°	4560.6	4568.3	4606.6	4667.0	4724.5	4765.7	4794.5	4800.3	4766.7	4725.5	4617.2
45°	4874.1	4894.2	4944.0	5015.0	5098.4	5156.9	5196.2	5212.5	5182.8	5129.1	5003.5
47.5°	5122.4	5142.5	5213.5	5297.9	5401.4	5496.3	5561.5	5596.0	5588.3	5548.1	5411.0
50°	5304.5	5323.7	5400.4	5504.0	5624.8	5742.6	5853.8	5936.3	5965.1	5946.9	5821.3
52.5°	5325.6	5357.3	5447.4	5586.4	5743.7	5904.7	6062.9	6202.9	6297.8	6312.1	6219.1
55°	5031.3	5063.0	5187.6	5393.7	5627.7	5890.4	6143.4	6379.2	6566.2	6662.1	6613.2
57.5°	4337.2	4393.8	4525.1	4766.7	5110.9	5504.0	5907.5	6326.5	6707.2	6961.2	7010.1
60°	3323.9	3391.0	3523.2	3780.2	4163.7	4632.5	5171.3	5790.6	6462.7	7034.0	7375.4
62.5°	2132.1	2195.5	2334.5	2557.9	2870.4	3378.5	3956.6	4692.0	5595.0	6497.2	7310.2
65°	1095.8	1130.4	1203.2	1338.3	1581.9	1961.5	2480.1	3213.6	4246.2	5359.1	6534.6
67.5°	694.1	700.8	717.1	736.3	798.6	930.0	1171.6	1628.8	2478.3	3639.2	5015.0
70°	600.2	600.2	592.5	589.6	597.3	615.5	652.8	759.3	1046.0	1727.6	2892.4
72.5°	549.3	543.6	530.2	519.7	517.7	517.7	525.4	541.7	587.7	703.7	1132.2
75°	506.2	489.9	471.7	459.2	454.4	449.6	448.7	451.5	461.1	479.4	540.7
77.5°	453.5	432.4	411.3	398.8	393.1	386.4	380.6	373.9	369.1	374.8	401.7
80°	390.2	366.2	350.0	342.3	336.6	326.9	314.5	303.0	292.4	290.5	306.8
82.5°	314.5	286.6	287.7	290.5	280.0	266.5	253.1	240.6	222.4	212.9	222.4
85°	254.1	239.7	232.9	251.1	235.9	215.7	194.7	172.6	143.8	120.8	131.3
87.5°	98.7	98.7	147.6	227.2	204.2	166.8	142.8	121.7	75.7	58.5	59.4
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°	2250.1	2250.1	2250.1	2250.1	2250.1	2250.1	2250.1	2250.1
2.5°	2254.0	2255.8	2254.9	2254.0	2254.0	2252.9	2254.0	2254.0
5°	2271.2	2276.0	2276.0	2277.9	2277.9	2278.8	2279.9	2278.8
7.5°	2297.0	2305.7	2311.5	2318.2	2319.1	2320.1	2322.0	2320.1
10°	2322.9	2340.2	2352.7	2365.2	2370.9	2372.8	2374.7	2374.7
12.5°	2355.5	2379.5	2401.6	2423.6	2434.2	2439.9	2439.9	2443.7
15°	2409.3	2433.2	2459.1	2488.8	2507.0	2516.7	2519.5	2519.5
17.5°	2485.0	2506.0	2528.1	2556.9	2579.9	2592.4	2595.2	2594.3
20°	2573.1	2593.3	2605.8	2624.0	2644.1	2658.5	2662.3	2662.3
22.5°	2673.9	2685.3	2687.3	2693.0	2709.3	2728.5	2737.1	2739.1
25°	2785.1	2788.0	2780.3	2780.3	2790.8	2809.0	2817.6	2818.6
27.5°	2928.8	2914.5	2895.3	2888.6	2895.3	2916.4	2927.0	2930.8
30°	3108.1	3073.7	3029.6	3005.5	3001.7	3029.6	3048.7	3051.6
32.5°	3313.3	3263.4	3205.0	3156.1	3143.6	3160.8	3183.8	3182.9
35°	3556.8	3497.4	3426.5	3364.1	3335.3	3352.6	3385.3	3389.0
37.5°	3837.7	3760.1	3678.5	3600.0	3554.9	3559.7	3594.2	3605.7
40°	4151.2	4050.6	3948.0	3842.5	3778.3	3765.8	3808.0	3814.7
42.5°	4486.8	4357.4	4228.0	4097.5	4015.1	3996.0	4044.7	4041.9
45°	4844.4	4679.5	4528.0	4384.2	4286.4	4257.6	4297.9	4297.9
47.5°	5228.8	5025.6	4845.3	4682.4	4576.0	4534.7	4573.0	4576.0
50°	5636.3	5420.5	5208.7	5027.5	4899.9	4847.3	4897.1	4904.7
52.5°	6041.8	5831.8	5618.0	5411.0	5256.6	5192.4	5249.9	5274.8
55°	6453.1	6247.0	6042.8	5840.4	5657.3	5581.6	5643.0	5674.6
57.5°	6887.3	6696.5	6502.0	6297.8	6121.3	6003.4	6068.7	6110.8
60°	7396.4	7233.5	7031.2	6805.9	6627.6	6507.7	6545.1	6582.5
62.5°	7799.1	7862.4	7690.7	7430.0	7200.9	7047.5	7083.9	7123.2
65°	7604.5	8253.6	8406.0	8142.3	7825.0	7586.3	7571.0	7591.1
67.5°	6356.2	7617.0	8536.3	8787.6	8522.0	8190.3	8128.9	8158.6
70°	4251.9	5822.2	7444.4	8652.3	8973.5	8845.0	8784.7	8802.9
72.5°	2042.0	3391.0	5050.5	6656.3	7634.2	8082.8	8226.7	8296.6
75°	746.9	1346.0	2434.2	3668.0	4428.3	5126.2	5581.6	5767.6
77.5°	450.6	543.6	777.5	1170.6	1325.8	1484.1	1422.7	1453.4
80°	333.6	376.8	426.7	479.4	496.6	496.6	477.4	462.1
82.5°	233.9	261.8	285.7	314.5	322.1	307.7	253.1	201.3
85°	150.5	163.0	173.5	191.7	187.0	178.3	119.9	106.4
87.5°	69.0	78.7	82.4	91.0	87.3	83.4	59.4	49.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)