

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: P269144

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269144
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17705 lumens
Efficiency: N/A
Efficacy: 92.7 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

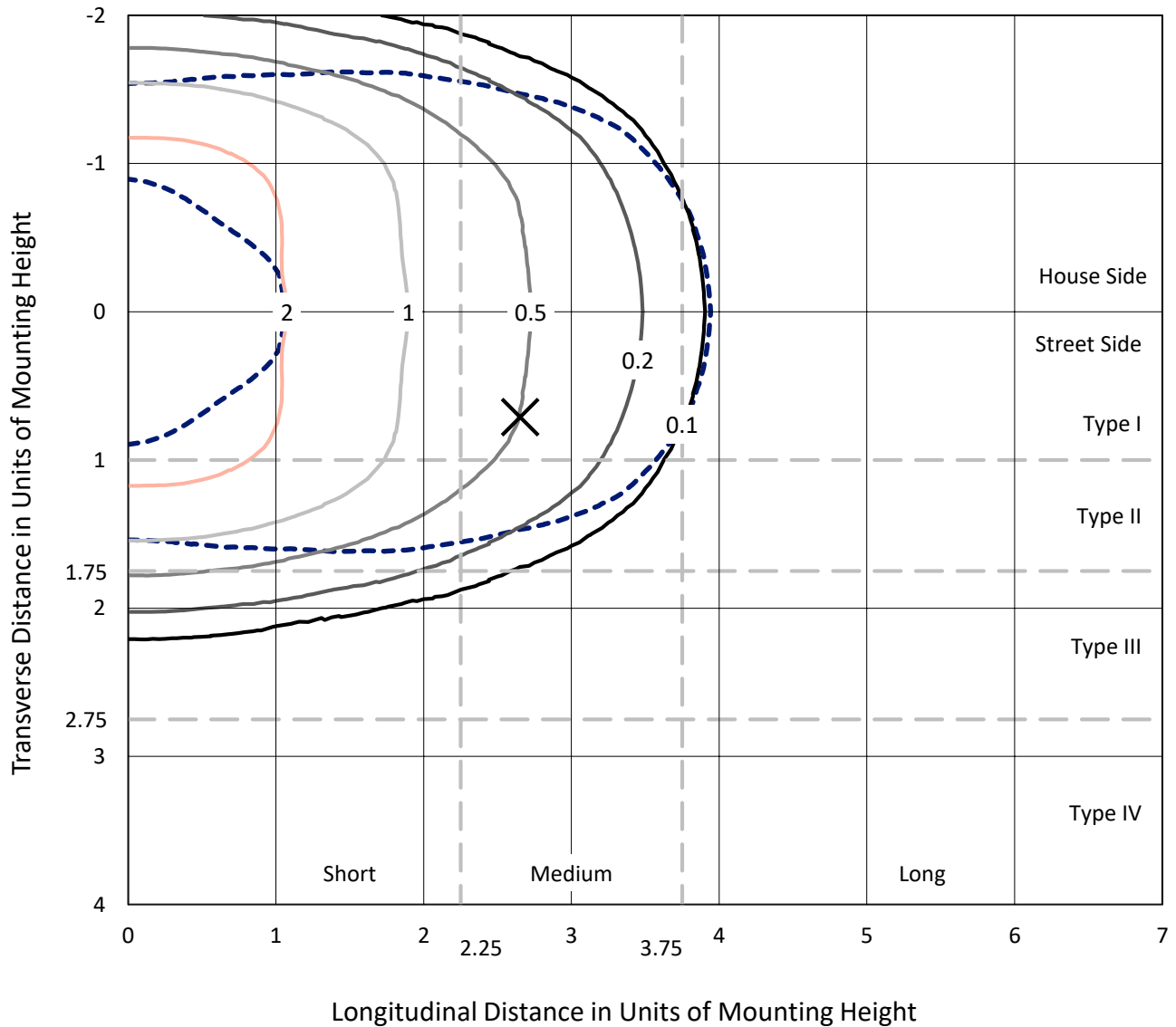


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

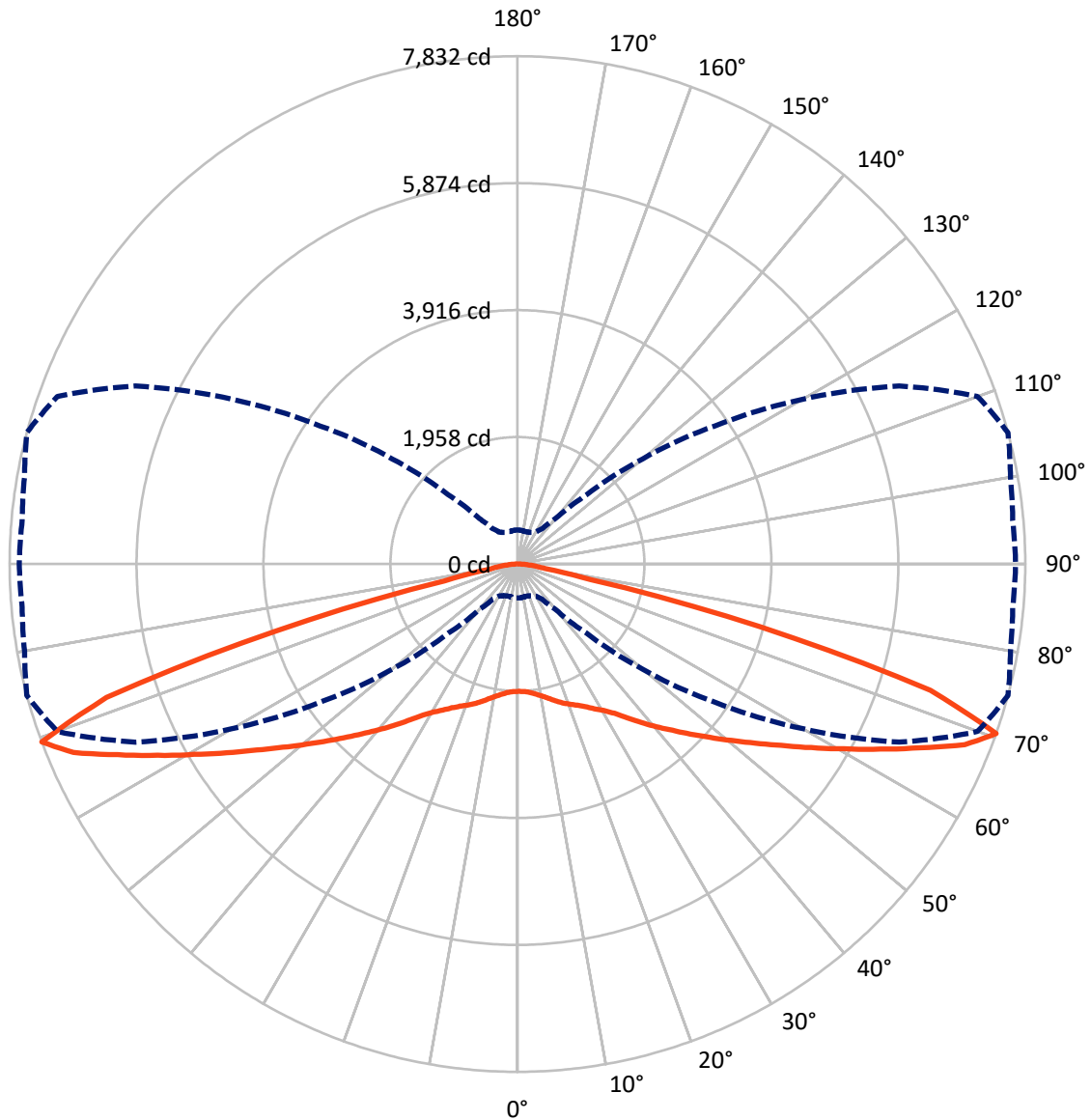


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Medium - Full Cutoff

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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
House Side	Lumens	8852.5	0.0	8852.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8852.5	0.0	8852.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17705.0	0.0	17705.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.4	1.1
10°-20°	585.2	3.3
20°-30°	1101.5	6.2
30°-40°	1950.6	11.0
40°-50°	3262.0	18.4
50°-60°	4545.6	25.7
60°-70°	4215.3	23.8
70°-80°	1679.9	9.5
80°-90°	176.6	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°	17705.0	100.0
0°-180°	17705.0	100.0

Coefficient of Utilization



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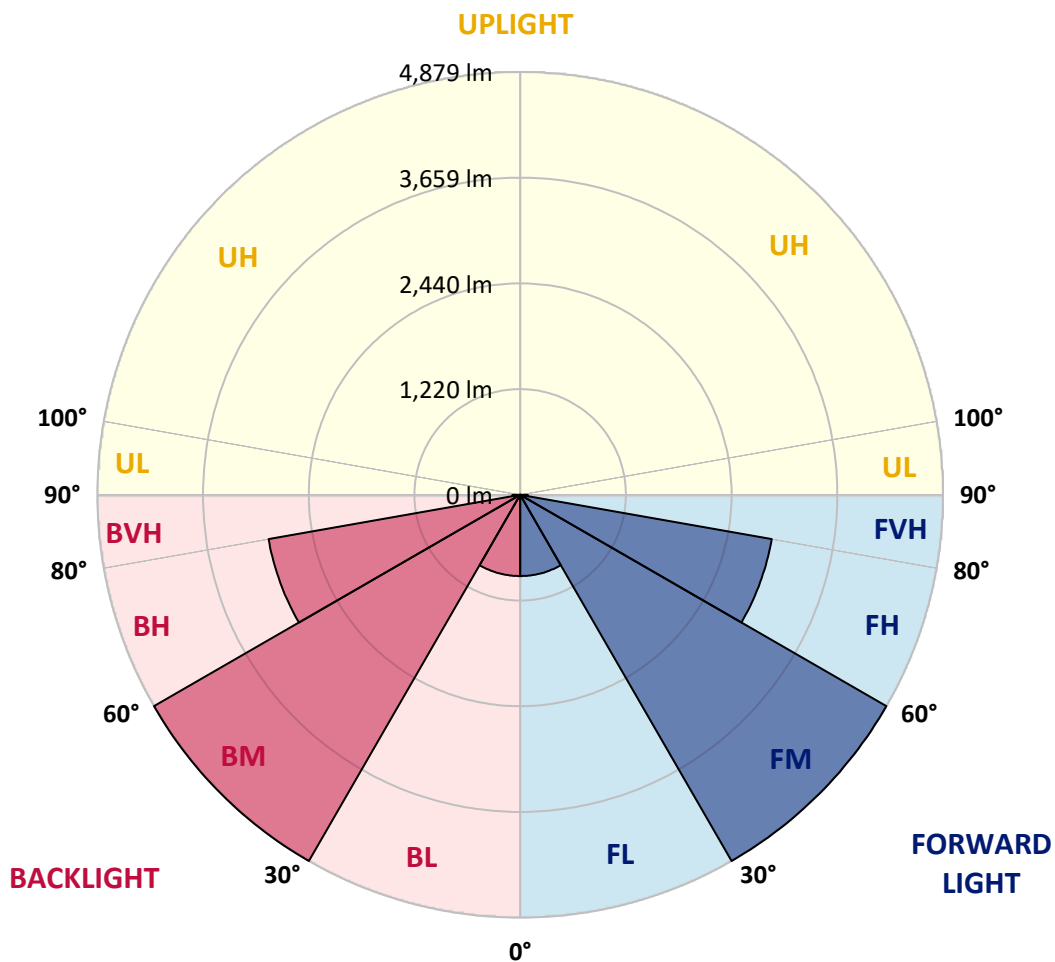
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	937.5	5.3			
FM (30°-60°)	4879.0	27.6			
FH (60°-80°)	2947.6	16.6			G2/5000
FVH (80°-90°)	88.3	0.5			G1/100
BL (0°-30°)	937.5	5.3	B2/1000		
BM (30°-60°)	4879.0	27.6	B3/5000		
BH (60°-80°)	2947.6	16.6	B4/5000		G4/5000
BVH (80°-90°)	88.3	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°	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9
2.5°	1960.6	1958.8	1960.6	1959.7	1961.4	1961.4	1963.1	1966.4	1966.4	1968.9	1968.0
5°	1941.2	1940.5	1942.9	1945.5	1948.0	1953.1	1958.0	1965.6	1971.4	1975.6	1979.8
7.5°	1903.7	1903.7	1907.0	1912.9	1918.7	1929.6	1941.2	1956.4	1971.4	1983.9	1994.9
10°	1872.6	1874.4	1878.5	1888.5	1898.6	1915.4	1931.3	1953.1	1973.9	1994.9	2011.6
12.5°	1854.3	1856.7	1864.3	1879.3	1896.1	1918.7	1942.9	1970.6	1994.0	2019.1	2035.9
15°	1860.1	1861.7	1872.6	1891.1	1912.9	1941.2	1973.9	2006.5	2034.2	2060.9	2083.6
17.5°	1892.8	1895.2	1907.8	1928.8	1951.4	1984.8	2020.0	2056.8	2091.1	2121.2	2148.8
20°	1951.4	1953.9	1969.8	1992.4	2019.1	2053.4	2088.6	2127.0	2165.5	2197.3	2228.3
22.5°	2034.2	2038.3	2053.4	2076.1	2106.2	2142.9	2184.8	2225.8	2262.7	2291.8	2319.6
25°	2142.9	2152.2	2166.4	2191.4	2223.2	2256.7	2301.9	2343.8	2378.9	2406.5	2426.6
27.5°	2297.0	2309.5	2320.3	2344.7	2375.6	2407.4	2452.6	2489.4	2522.9	2549.6	2564.8
30°	2501.2	2513.6	2524.5	2548.0	2576.3	2606.5	2649.2	2681.8	2702.8	2723.8	2722.9
32.5°	2748.8	2762.2	2766.3	2791.5	2820.8	2853.3	2891.9	2910.2	2926.9	2929.6	2914.5
35°	3025.8	3032.5	3049.1	3082.7	3116.1	3142.9	3179.7	3189.0	3189.0	3176.3	3142.9
37.5°	3329.5	3333.7	3357.1	3394.8	3429.1	3456.7	3481.8	3500.2	3491.1	3464.3	3408.2
40°	3662.5	3670.0	3703.5	3736.9	3775.4	3801.4	3828.1	3831.5	3822.4	3783.0	3706.9
42.5°	3980.5	3987.1	4020.6	4073.4	4123.6	4159.5	4184.7	4189.6	4160.4	4124.4	4029.8
45°	4254.2	4271.7	4315.2	4377.1	4449.9	4501.0	4535.3	4549.5	4523.5	4476.8	4367.1
47.5°	4470.9	4488.4	4550.4	4623.9	4714.3	4797.2	4854.1	4884.3	4877.4	4842.4	4722.7
50°	4629.9	4646.6	4713.4	4803.9	4909.2	5012.3	5109.3	5181.2	5206.3	5190.4	5080.9
52.5°	4648.2	4675.9	4754.5	4875.8	5013.1	5153.7	5291.7	5413.8	5496.6	5509.2	5428.1
55°	4391.4	4418.9	4527.7	4707.7	4911.8	5141.1	5362.1	5567.9	5730.9	5814.6	5772.0
57.5°	3785.5	3835.0	3949.6	4160.4	4460.9	4803.9	5156.1	5521.8	5854.1	6075.7	6118.4
60°	2901.0	2959.6	3075.1	3299.4	3634.1	4043.2	4513.5	5054.0	5640.6	6139.3	6437.3
62.5°	1861.0	1916.2	2037.5	2232.5	2505.3	2948.7	3453.4	4095.2	4883.4	5670.8	6380.3
65°	956.4	986.6	1050.2	1168.2	1380.7	1712.0	2164.7	2804.9	3706.0	4677.6	5703.3
67.5°	605.7	611.7	625.8	642.6	697.1	811.7	1022.5	1421.7	2163.1	3176.3	4377.1
70°	523.8	523.8	517.2	514.5	521.2	537.1	569.9	662.7	912.9	1507.8	2524.5
72.5°	479.4	474.5	462.7	453.6	451.8	451.8	458.6	472.8	512.9	614.3	988.2
75°	441.7	427.7	411.8	400.9	396.6	392.4	391.7	394.1	402.5	418.4	471.9
77.5°	395.9	377.4	359.0	348.2	343.1	337.3	332.3	326.4	322.1	327.2	350.6
80°	340.5	319.6	305.5	298.7	293.7	285.3	274.4	264.5	255.2	253.5	267.8
82.5°	274.4	250.2	251.0	253.5	244.2	232.7	221.0	210.1	194.2	185.8	194.2
85°	221.7	209.1	203.3	219.2	205.8	188.3	169.9	150.6	125.6	105.5	114.7
87.5°	86.1	86.1	128.8	198.3	178.3	145.5	124.7	106.3	66.1	51.1	51.9
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°	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9
2.5°	1967.3	1968.9	1968.0	1967.3	1967.3	1966.4	1967.3	1967.3
5°	1982.3	1986.5	1986.5	1988.2	1988.2	1988.9	1989.8	1988.9
7.5°	2004.8	2012.5	2017.5	2023.3	2024.2	2025.0	2026.7	2025.0
10°	2027.5	2042.6	2053.4	2064.3	2069.3	2071.0	2072.7	2072.7
12.5°	2056.0	2076.8	2096.0	2115.4	2124.5	2129.6	2129.6	2132.9
15°	2102.8	2123.8	2146.3	2172.2	2188.1	2196.5	2199.1	2199.1
17.5°	2168.9	2187.4	2206.5	2231.7	2251.7	2262.7	2265.2	2264.3
20°	2245.9	2263.5	2274.2	2290.1	2307.7	2320.3	2323.6	2323.6
22.5°	2333.7	2343.8	2345.5	2350.4	2364.7	2381.4	2389.0	2390.6
25°	2430.9	2433.2	2426.6	2426.6	2435.8	2451.7	2459.3	2460.1
27.5°	2556.3	2543.8	2527.0	2521.2	2527.0	2545.4	2554.6	2558.1
30°	2712.8	2682.7	2644.3	2623.3	2619.8	2644.3	2660.9	2663.5
32.5°	2891.9	2848.3	2797.3	2754.7	2743.8	2758.9	2778.8	2778.1
35°	3104.5	3052.5	2990.5	2936.2	2911.0	2926.1	2954.6	2957.9
37.5°	3349.6	3281.8	3210.7	3142.0	3102.7	3106.9	3137.1	3147.1
40°	3623.3	3535.3	3445.8	3353.7	3297.7	3286.8	3323.5	3329.5
42.5°	3916.2	3803.2	3690.1	3576.3	3504.4	3487.6	3530.2	3527.9
45°	4228.2	4084.2	3952.1	3826.5	3741.3	3716.1	3751.2	3751.2
47.5°	4563.7	4386.3	4229.0	4086.7	3993.9	3957.9	3991.3	3993.9
50°	4919.4	4731.1	4546.1	4388.0	4276.7	4230.7	4274.1	4281.0
52.5°	5273.3	5090.1	4903.5	4722.7	4588.1	4531.9	4582.2	4604.0
55°	5632.3	5452.4	5274.2	5097.6	4937.8	4871.7	4925.1	4952.9
57.5°	6011.4	5844.8	5675.0	5496.6	5342.8	5239.9	5296.8	5333.5
60°	6455.7	6313.4	6136.9	5940.2	5784.5	5680.0	5712.6	5745.2
62.5°	6807.0	6862.3	6712.6	6485.0	6284.9	6151.1	6182.9	6217.2
65°	6637.2	7203.7	7336.7	7106.6	6829.8	6621.3	6607.9	6625.4
67.5°	5547.8	6648.0	7450.5	7669.8	7438.1	7148.5	7095.0	7120.9
70°	3711.1	5081.7	6497.5	7551.8	7832.1	7720.0	7667.4	7683.3
72.5°	1782.2	2959.6	4408.2	5809.7	6663.2	7054.7	7180.3	7241.3
75°	651.8	1174.9	2124.5	3201.5	3865.0	4474.2	4871.7	5034.0
77.5°	393.3	474.5	678.6	1021.7	1157.2	1295.4	1241.7	1268.5
80°	291.2	328.9	372.3	418.4	433.4	433.4	416.8	403.2
82.5°	204.2	228.3	249.4	274.4	281.2	268.7	221.0	175.7
85°	131.4	142.2	151.5	167.4	163.1	155.6	104.7	92.9
87.5°	60.2	68.6	72.0	79.5	76.1	72.9	51.9	43.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)