

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: P300548

Luminaire Tested: **GLNA-AF-03-LED-E1-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300548
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: GLNA-AF-03-LED-E1-RW-7030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND
Rectangular Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17906.6 lumens
Efficiency: N/A
Efficacy: 107.9 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

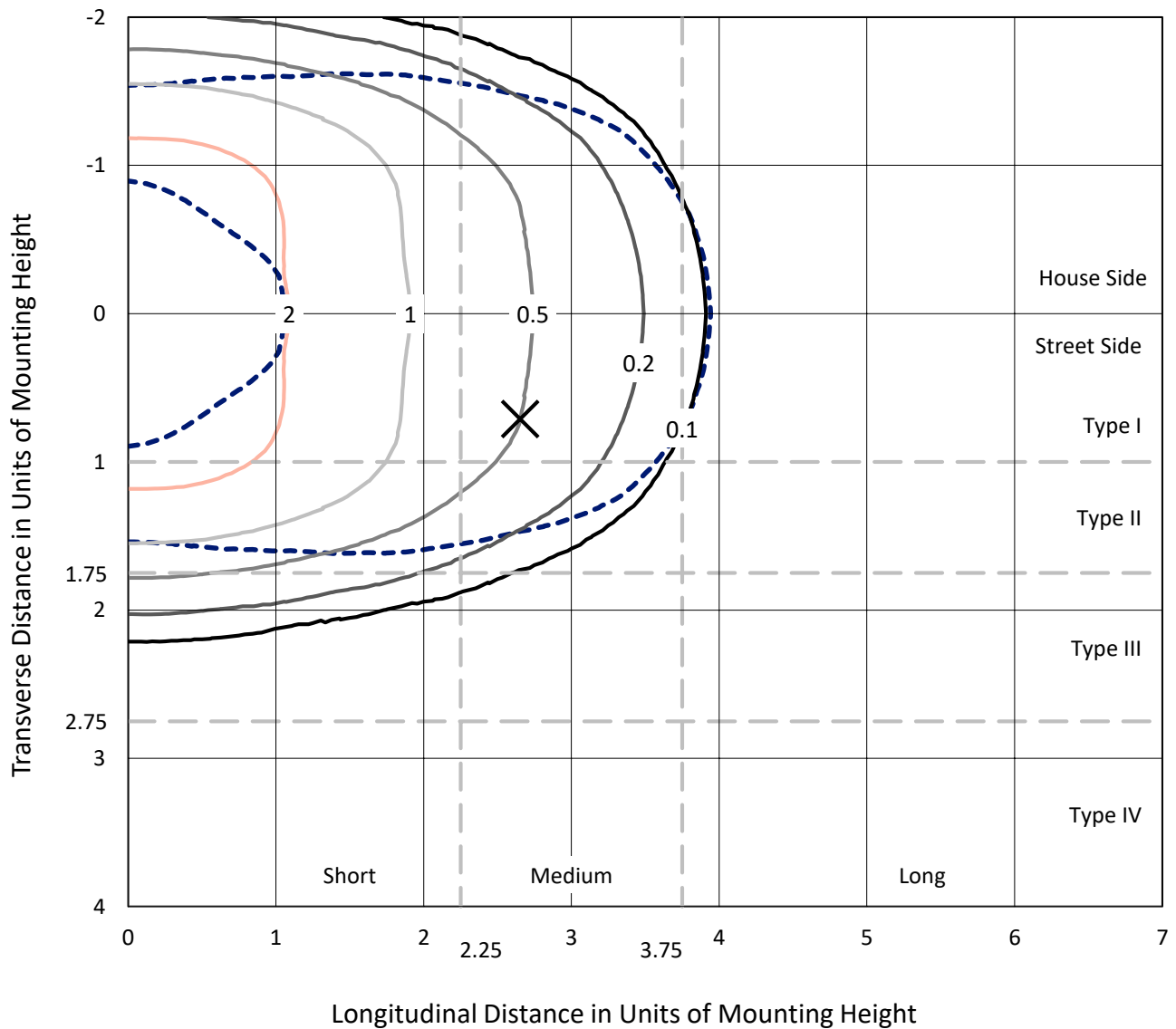
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

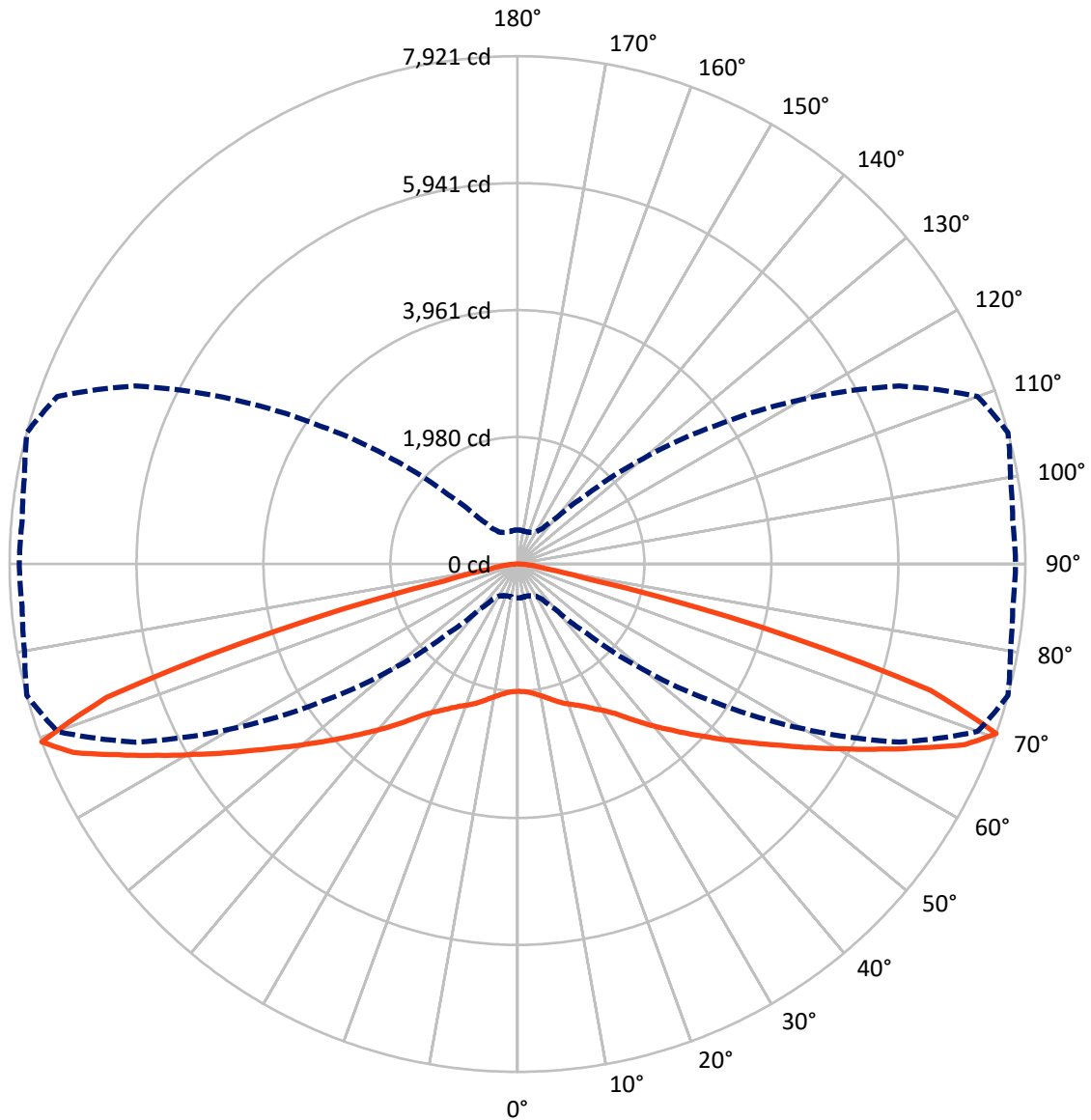
× Max cd
 - - - 1/2 Max cd



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	8953.3	0.0	8953.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8953.3	0.0	8953.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	17906.6	0.0	17906.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.5	1.1
10°-20°	591.9	3.3
20°-30°	1114.1	6.2
30°-40°	1972.8	11.0
40°-50°	3299.1	18.4
50°-60°	4597.3	25.7
60°-70°	4263.3	23.8
70°-80°	1699.0	9.5
80°-90°	178.6	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°	17906.6	100.0
0°-180°	17906.6	100.0



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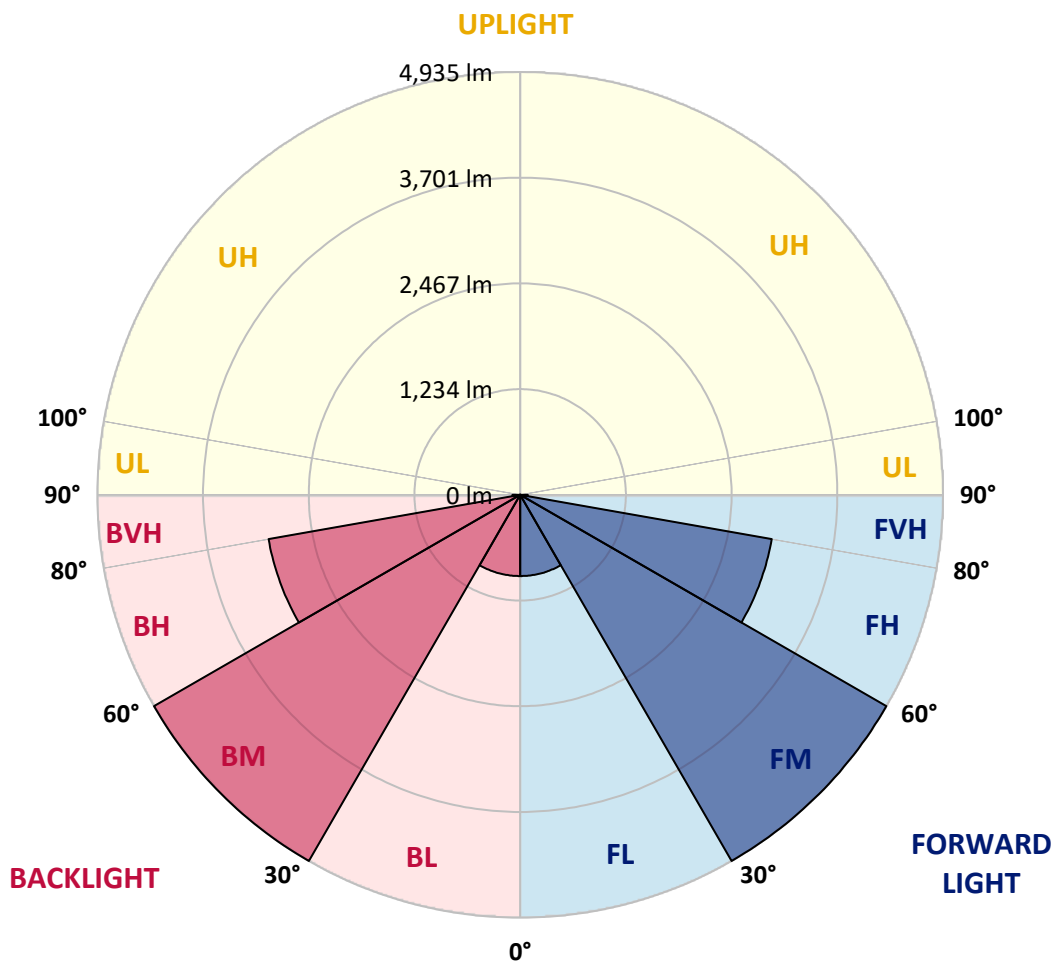
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	948.2	5.3			
FM	(30°-60°)	4934.6	27.6			
FH	(60°-80°)	2981.2	16.6			G2/5000
FVH	(80°-90°)	89.3	0.5			G1/100
BL	(0°-30°)	948.2	5.3	B2/1000		
BM	(30°-60°)	4934.6	27.6	B3/5000		
BH	(60°-80°)	2981.2	16.6	B4/5000		G4/5000
BVH	(80°-90°)	89.3	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°	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3
2.5°	1982.9	1981.2	1982.9	1982.0	1983.7	1983.7	1985.4	1988.8	1988.8	1991.3	1990.5
5°	1963.4	1962.6	1965.1	1967.6	1970.2	1975.3	1980.3	1987.9	1993.9	1998.1	2002.3
7.5°	1925.3	1925.3	1928.7	1934.6	1940.6	1951.6	1963.4	1978.6	1993.9	2006.6	2017.6
10°	1894.0	1895.7	1899.9	1910.1	1920.2	1937.2	1953.2	1975.3	1996.4	2017.6	2034.5
12.5°	1875.4	1877.9	1885.5	1900.8	1917.7	1940.6	1965.1	1993.0	2016.7	2042.1	2059.0
15°	1881.3	1883.0	1894.0	1912.6	1934.6	1963.4	1996.4	2029.4	2057.3	2084.4	2107.3
17.5°	1914.3	1916.9	1929.6	1950.7	1973.6	2007.4	2043.0	2080.2	2114.9	2145.4	2173.3
20°	1973.6	1976.1	1992.2	2015.0	2042.1	2076.8	2112.4	2151.3	2190.2	2222.4	2253.7
22.5°	2057.3	2061.6	2076.8	2099.7	2130.1	2167.4	2209.7	2251.1	2288.4	2318.0	2345.9
25°	2167.4	2176.7	2191.1	2216.4	2248.6	2282.5	2328.2	2370.5	2406.0	2433.9	2454.3
27.5°	2323.1	2335.8	2346.8	2371.3	2402.6	2434.8	2480.5	2517.7	2551.6	2578.7	2593.9
30°	2529.6	2542.3	2553.3	2577.0	2605.7	2636.2	2679.4	2712.4	2733.5	2754.7	2753.8
32.5°	2780.1	2793.6	2797.9	2823.2	2852.9	2885.9	2924.8	2943.4	2960.3	2962.9	2947.6
35°	3060.2	3067.0	3083.9	3117.7	3151.6	3178.7	3215.9	3225.2	3225.2	3212.5	3178.7
37.5°	3367.4	3371.6	3395.3	3433.4	3468.1	3496.0	3521.4	3540.1	3530.7	3503.7	3447.0
40°	3704.2	3711.8	3745.7	3779.6	3818.5	3844.7	3871.8	3875.2	3865.9	3826.1	3749.1
42.5°	4025.8	4032.6	4066.4	4119.8	4170.5	4206.9	4232.3	4237.4	4207.8	4171.4	4075.8
45°	4302.6	4320.3	4364.3	4427.0	4500.6	4552.2	4586.9	4601.3	4575.1	4527.7	4416.8
47.5°	4521.8	4539.5	4602.2	4676.6	4768.0	4851.8	4909.4	4939.8	4933.1	4897.5	4776.5
50°	4682.5	4699.5	4767.2	4858.6	4965.2	5069.3	5167.5	5240.3	5265.6	5249.6	5138.7
52.5°	4701.2	4729.1	4808.6	4931.4	5070.2	5212.3	5352.0	5475.5	5559.3	5572.0	5489.9
55°	4441.4	4469.3	4579.3	4761.3	4967.8	5199.6	5423.1	5631.2	5796.3	5880.9	5837.7
57.5°	3828.6	3878.6	3994.5	4207.8	4511.6	4858.6	5214.9	5584.7	5920.7	6144.9	6188.1
60°	2934.1	2993.3	3110.1	3336.9	3675.5	4089.3	4564.9	5111.6	5704.9	6209.3	6510.5
62.5°	1882.2	1938.0	2060.7	2257.9	2533.8	2982.3	3492.7	4141.8	4939.0	5735.3	6453.0
65°	967.3	997.8	1062.1	1181.4	1396.4	1731.5	2189.4	2836.8	3748.2	4730.8	5768.3
67.5°	612.7	618.6	633.0	650.0	705.0	820.9	1034.2	1437.9	2187.7	3212.5	4427.0
70°	529.8	529.8	523.0	520.5	527.2	543.3	576.3	670.3	923.3	1525.0	2553.3
72.5°	484.9	479.8	468.0	458.7	457.0	457.0	463.8	478.2	518.8	621.2	999.5
75°	446.8	432.5	416.4	405.4	401.1	396.9	396.1	398.6	407.1	423.1	477.3
77.5°	400.3	381.7	363.1	352.1	347.0	341.1	336.0	330.1	325.8	330.9	354.6
80°	344.4	323.3	308.9	302.1	297.0	288.6	277.6	267.4	258.1	256.4	270.8
82.5°	277.6	253.0	253.9	256.4	247.1	235.3	223.4	212.4	196.3	187.9	196.3
85°	224.3	211.6	205.6	221.7	208.2	190.4	171.8	152.3	126.9	106.6	115.9
87.5°	87.2	87.2	130.3	200.6	180.3	147.3	126.1	107.5	66.9	51.6	52.5
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°	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3
2.5°	1989.6	1991.3	1990.5	1989.6	1989.6	1988.8	1989.6	1989.6
5°	2004.9	2009.1	2009.1	2010.8	2010.8	2011.6	2012.5	2011.6
7.5°	2027.7	2035.3	2040.4	2046.3	2047.2	2048.0	2049.7	2048.0
10°	2050.6	2065.8	2076.8	2087.8	2092.9	2094.6	2096.3	2096.3
12.5°	2079.3	2100.5	2120.0	2139.4	2148.7	2153.8	2153.8	2157.2
15°	2126.7	2147.9	2170.7	2197.0	2213.1	2221.5	2224.1	2224.1
17.5°	2193.6	2212.2	2231.7	2257.1	2277.4	2288.4	2290.9	2290.1
20°	2271.5	2289.2	2300.2	2316.3	2334.1	2346.8	2350.2	2350.2
22.5°	2360.3	2370.5	2372.2	2377.2	2391.6	2408.6	2416.2	2417.9
25°	2458.5	2461.0	2454.3	2454.3	2463.6	2479.6	2487.3	2488.1
27.5°	2585.4	2572.7	2555.8	2549.9	2555.8	2574.4	2583.7	2587.1
30°	2743.7	2713.2	2674.3	2653.1	2649.7	2674.3	2691.2	2693.8
32.5°	2924.8	2880.8	2829.2	2786.0	2775.0	2790.2	2810.5	2809.7
35°	3139.8	3087.3	3024.7	2969.6	2944.3	2959.5	2988.3	2991.7
37.5°	3387.7	3319.2	3247.2	3177.8	3138.1	3142.3	3172.8	3182.9
40°	3664.5	3575.6	3485.0	3391.9	3335.2	3324.2	3361.5	3367.4
42.5°	3960.7	3846.4	3732.2	3617.1	3544.3	3527.4	3570.5	3568.0
45°	4276.3	4130.8	3997.1	3870.1	3783.8	3758.4	3793.9	3793.9
47.5°	4615.7	4436.3	4277.2	4133.3	4039.4	4003.0	4036.8	4039.4
50°	4975.4	4785.0	4597.9	4438.0	4325.4	4278.9	4322.9	4329.6
52.5°	5333.3	5148.0	4959.3	4776.5	4640.2	4583.5	4634.3	4656.3
55°	5696.4	5514.5	5334.2	5155.6	4994.0	4927.1	4981.3	5009.2
57.5°	6079.8	5911.4	5739.6	5559.3	5403.6	5299.5	5357.0	5394.3
60°	6529.2	6385.3	6206.7	6007.8	5850.4	5744.6	5777.7	5810.7
62.5°	6884.6	6940.5	6789.0	6558.8	6356.5	6221.1	6253.3	6288.0
65°	6712.8	7285.8	7420.3	7187.6	6907.5	6696.7	6683.2	6701.0
67.5°	5610.9	6723.8	7535.4	7757.1	7522.7	7229.9	7175.7	7202.0
70°	3753.3	5139.5	6571.5	7637.8	7921.3	7807.9	7754.6	7770.7
72.5°	1802.6	2993.3	4458.3	5875.8	6739.0	7135.1	7262.1	7323.8
75°	659.3	1188.2	2148.7	3237.9	3909.0	4525.1	4927.1	5091.3
77.5°	397.8	479.8	686.3	1033.3	1170.4	1310.1	1255.9	1283.0
80°	294.5	332.6	376.6	423.1	438.4	438.4	421.5	407.9
82.5°	206.5	231.0	252.2	277.6	284.4	271.7	223.4	177.7
85°	132.9	143.9	153.2	169.3	165.0	157.4	105.8	93.9
87.5°	60.9	69.4	72.8	80.4	77.0	73.6	52.5	44.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)