

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: P193401

Luminaire Tested: **GLEON-AF-03-LED-E1-5NQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193401
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 16780 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - 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

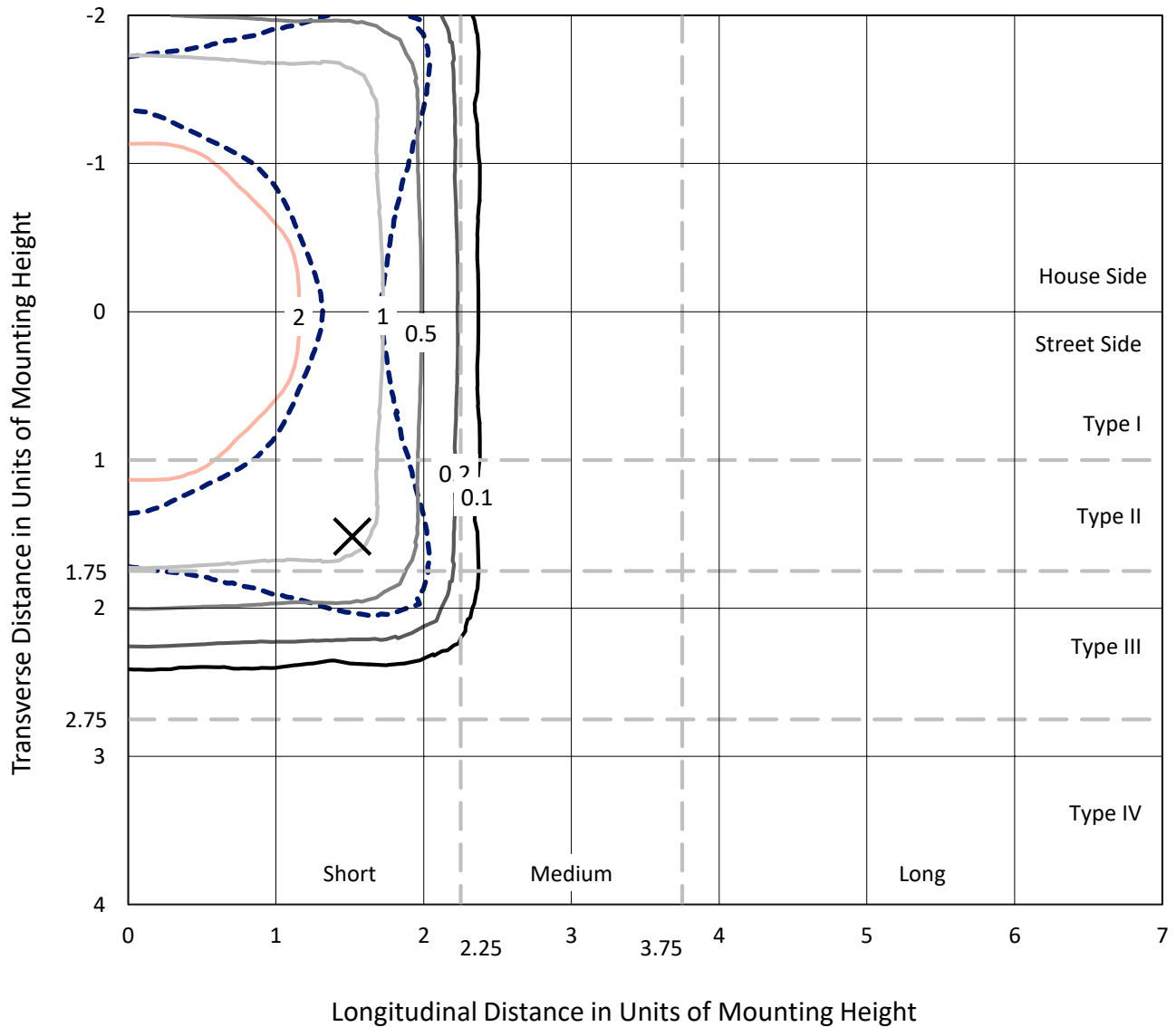


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

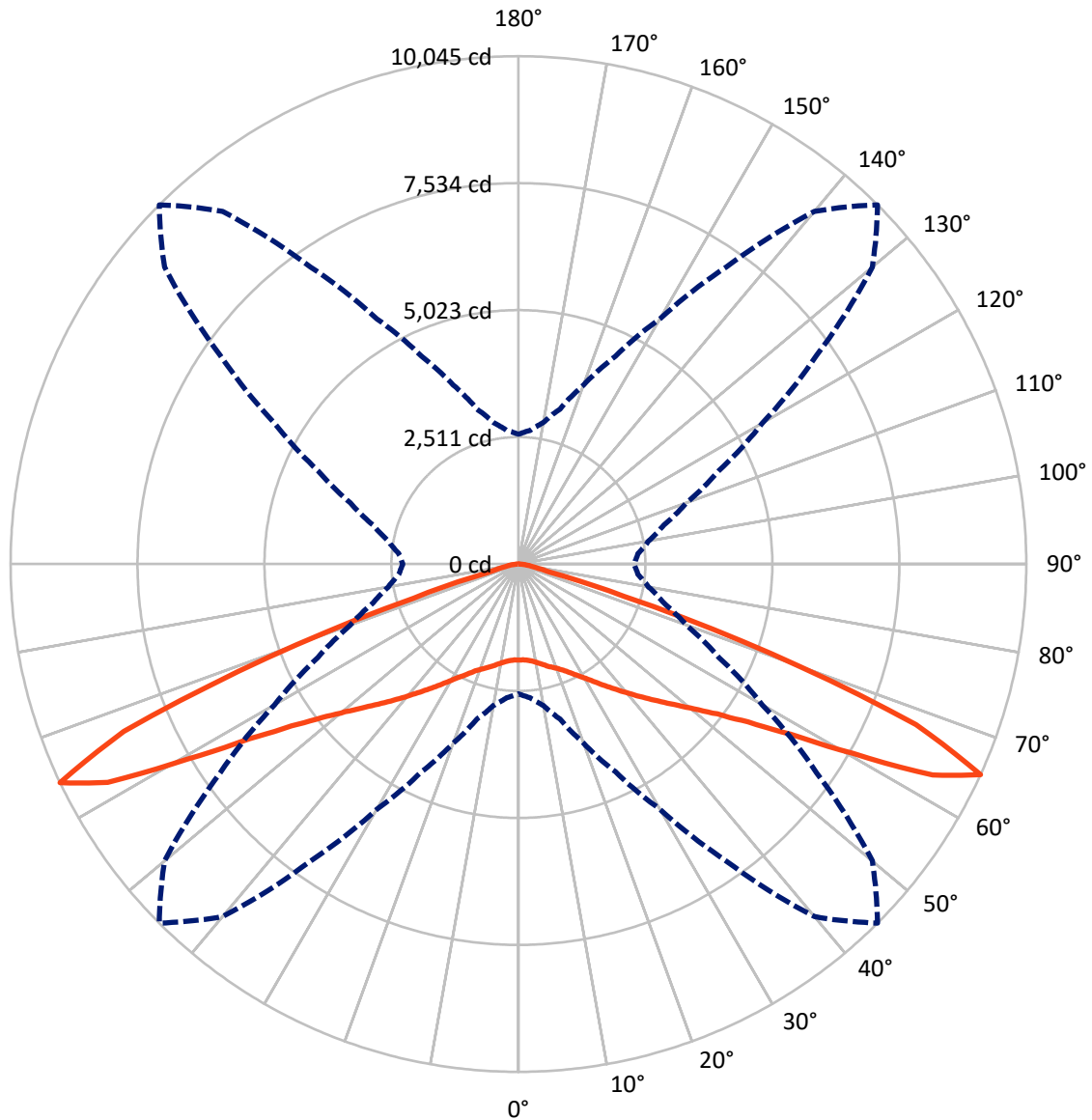


Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Full Cutoff

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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	8390.0	0.0	8390.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8390.0	0.0	8390.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16780.0	0.0	16780.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.1	1.1
10°-20°	593.5	3.5
20°-30°	1109.8	6.6
30°-40°	1876.9	11.2
40°-50°	3069.0	18.3
50°-60°	4880.1	29.1
60°-70°	4411.3	26.3
70°-80°	558.3	3.3
80°-90°	96.0	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°	16780.0	100.0
0°-180°	16780.0	100.0



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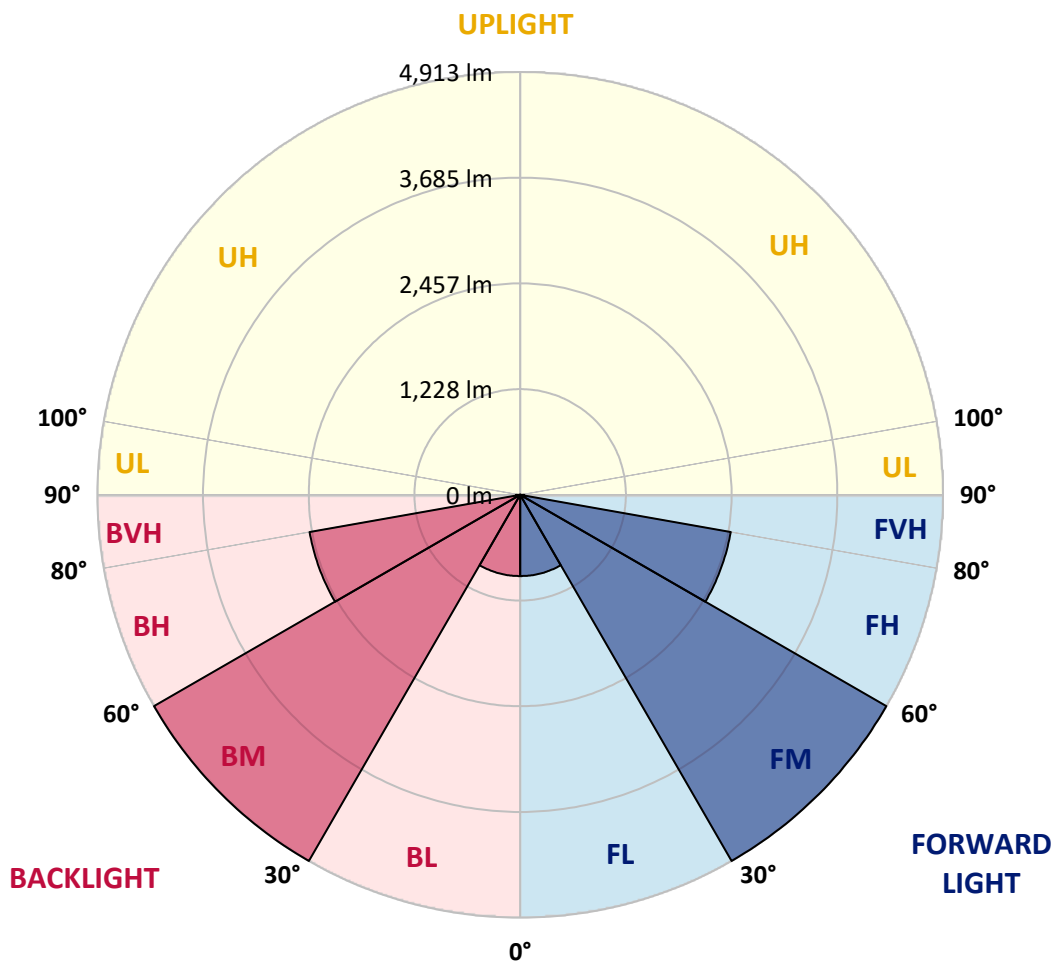
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	944.2	5.6			
FM (30°-60°)	4913.0	29.3			
FH (60°-80°)	2484.8	14.8			G2/5000
FVH (80°-90°)	48.0	0.3			G1/100
BL (0°-30°)	944.2	5.6	B2/1000		
BM (30°-60°)	4913.0	29.3	B3/5000		
BH (60°-80°)	2484.8	14.8	B3/2500		G2/5000
BVH (80°-90°)	48.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1898.7	1898.7	1898.7	1898.7	1898.7	1898.7	1898.7	1898.7	1898.7	1898.7	1898.7
2.5°	1900.2	1901.8	1903.4	1901.8	1903.4	1901.0	1899.5	1901.8	1899.5	1897.1	1898.7
5°	1916.7	1917.5	1917.5	1915.2	1917.5	1916.0	1913.6	1916.7	1914.4	1912.0	1913.6
7.5°	1944.2	1947.4	1945.0	1942.7	1944.2	1942.7	1941.1	1941.9	1941.1	1938.7	1939.5
10°	1981.2	1983.5	1982.0	1981.2	1982.8	1982.0	1980.4	1979.6	1980.4	1978.0	1978.0
12.5°	2026.0	2025.2	2024.4	2025.2	2027.5	2027.5	2026.8	2027.5	2029.1	2029.9	2028.3
15°	2070.0	2071.6	2071.6	2071.6	2076.3	2080.2	2082.6	2084.1	2087.3	2088.1	2084.9
17.5°	2125.0	2125.0	2124.2	2125.0	2129.7	2136.0	2138.4	2141.5	2144.6	2147.0	2143.1
20°	2186.3	2187.9	2187.9	2189.4	2195.7	2202.8	2202.8	2204.4	2202.8	2204.4	2202.0
22.5°	2261.0	2265.7	2265.7	2266.5	2272.7	2281.4	2279.0	2281.4	2277.5	2280.6	2277.5
25°	2358.4	2365.5	2363.9	2363.9	2368.6	2374.1	2374.9	2379.6	2378.8	2382.8	2380.4
27.5°	2468.4	2479.4	2482.6	2481.8	2484.9	2490.4	2492.0	2497.5	2494.4	2497.5	2495.9
30°	2600.4	2605.2	2611.5	2613.8	2617.7	2623.2	2623.2	2624.0	2620.1	2624.8	2627.2
32.5°	2737.2	2745.8	2752.1	2766.3	2773.3	2777.3	2776.5	2778.1	2774.1	2780.4	2785.1
35°	2917.9	2924.2	2934.4	2945.4	2954.9	2954.1	2951.7	2952.5	2952.5	2958.0	2962.7
37.5°	3135.6	3137.2	3150.6	3166.3	3171.0	3166.3	3152.1	3149.0	3141.9	3149.0	3156.8
40°	3365.9	3371.4	3398.1	3408.3	3410.7	3402.0	3381.6	3369.8	3354.1	3362.7	3373.7
42.5°	3607.2	3618.2	3642.5	3660.6	3668.4	3662.9	3634.7	3616.6	3596.1	3600.9	3611.9
45°	3874.3	3887.7	3922.3	3939.6	3954.5	3945.9	3918.4	3890.9	3858.6	3861.0	3878.3
47.5°	4173.0	4186.3	4231.1	4260.2	4268.1	4266.5	4235.8	4198.1	4154.1	4152.5	4167.5
50°	4507.8	4521.1	4576.9	4621.7	4644.5	4642.1	4606.0	4552.6	4499.1	4499.9	4518.8
52.5°	4834.7	4851.2	4909.3	4986.4	5031.2	5063.4	5041.4	4991.1	4925.8	4927.4	4944.7
55°	5141.2	5168.7	5235.5	5340.0	5423.3	5513.7	5539.6	5538.0	5498.7	5509.7	5527.0
57.5°	5289.7	5330.6	5433.5	5598.5	5768.3	5952.2	6107.8	6224.1	6273.6	6348.3	6331.0
60°	5008.4	5073.6	5225.3	5468.1	5803.7	6187.2	6598.2	6999.8	7342.4	7601.0	7452.4
62.5°	4100.7	4185.6	4369.4	4680.7	5188.3	5802.1	6588.7	7538.1	8572.3	9196.3	8750.7
65°	2565.9	2653.9	2840.9	3174.1	3768.3	4531.3	5598.5	7171.9	9104.3	10045.0	9138.1
67.5°	1000.4	1048.4	1149.7	1362.7	1809.1	2488.1	3559.2	5344.7	7656.0	8480.3	7513.7
70°	501.4	506.1	525.0	564.3	660.1	857.4	1304.5	2477.9	4390.7	5303.1	4232.7
72.5°	362.3	363.1	372.5	389.8	420.4	464.5	549.3	758.4	1427.9	2182.4	1338.3
75°	277.4	280.6	286.1	295.5	312.0	334.0	364.6	436.9	541.5	627.9	528.1
77.5°	213.8	220.0	224.0	232.6	242.8	257.8	266.4	293.9	341.9	359.9	354.4
80°	162.7	168.2	176.8	183.9	191.0	198.0	194.9	207.5	232.6	247.5	239.7
82.5°	103.7	110.0	135.2	141.5	144.6	149.3	143.8	144.6	155.6	165.0	155.6
85°	66.8	70.7	85.7	93.5	94.3	97.4	95.1	89.6	89.6	81.7	91.9
87.5°	30.6	31.4	38.5	45.6	47.2	42.4	41.7	40.1	32.2	30.6	33.0
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°	1898.7	1898.7	1898.7	1898.7	1898.7	1898.7	1898.7	1898.7
2.5°	1897.9	1899.5	1900.2	1902.6	1903.4	1903.4	1904.2	1905.7
5°	1912.8	1915.2	1916.0	1919.1	1919.9	1919.1	1920.7	1921.5
7.5°	1939.5	1943.5	1945.0	1948.2	1945.8	1949.0	1949.7	1949.7
10°	1978.8	1982.8	1983.5	1986.7	1985.1	1986.7	1986.7	1985.1
12.5°	2030.7	2031.5	2029.1	2031.5	2028.3	2029.9	2027.5	2026.0
15°	2088.1	2085.7	2080.2	2080.2	2075.5	2076.3	2075.5	2074.7
17.5°	2143.9	2139.1	2135.2	2133.6	2129.7	2128.9	2126.6	2126.6
20°	2205.2	2202.8	2200.4	2197.3	2193.4	2189.4	2188.7	2190.2
22.5°	2279.0	2278.2	2278.2	2276.7	2271.2	2267.2	2264.9	2264.9
25°	2378.0	2371.0	2371.0	2370.2	2367.8	2365.5	2360.8	2363.1
27.5°	2489.6	2485.7	2488.9	2488.1	2485.7	2485.7	2482.6	2482.6
30°	2627.2	2625.6	2630.3	2626.4	2618.5	2617.7	2614.6	2610.7
32.5°	2785.9	2784.3	2791.4	2786.7	2774.1	2767.1	2760.8	2757.6
35°	2962.7	2963.5	2972.2	2969.0	2954.9	2950.2	2939.2	2937.6
37.5°	3156.1	3168.6	3183.6	3186.7	3174.9	3171.8	3160.0	3153.7
40°	3383.2	3399.7	3422.5	3428.0	3415.4	3413.0	3396.5	3387.9
42.5°	3625.2	3653.5	3681.8	3686.5	3674.0	3661.4	3645.7	3639.4
45°	3895.6	3929.4	3966.3	3975.7	3956.9	3941.9	3921.5	3921.5
47.5°	4198.9	4241.3	4283.0	4308.9	4291.6	4275.9	4251.6	4235.8
50°	4557.3	4615.4	4669.6	4696.4	4668.9	4639.0	4596.6	4582.4
52.5°	5006.8	5069.7	5116.8	5102.7	5060.2	5018.6	4972.2	4953.3
55°	5580.5	5601.7	5601.7	5548.3	5463.4	5393.4	5320.4	5296.0
57.5°	6298.0	6216.2	6090.5	5931.0	5730.6	5556.1	5438.2	5382.4
60°	7141.2	6748.3	6304.3	5868.1	5509.7	5214.3	5039.0	4958.9
62.5°	7703.1	6675.2	5785.6	5085.4	4569.8	4213.8	3971.8	3877.5
65°	7199.4	5567.1	4375.7	3538.0	2976.1	2613.8	2374.1	2286.1
67.5°	5273.2	3488.5	2330.1	1670.0	1223.6	976.1	877.8	837.0
70°	2367.0	1228.3	752.9	587.8	506.9	465.2	447.2	440.9
72.5°	713.6	516.3	435.4	392.9	360.7	340.3	325.4	323.8
75°	430.7	358.4	318.3	293.1	272.7	256.2	248.3	246.0
77.5°	301.0	263.3	244.4	226.3	210.6	198.0	191.0	185.5
80°	211.4	193.3	184.7	174.5	164.2	152.5	142.2	137.5
82.5°	141.5	137.5	137.5	131.2	122.6	111.6	91.2	86.4
85°	91.2	90.4	91.9	89.6	83.3	71.5	58.9	55.8
87.5°	42.4	43.2	47.9	47.2	45.6	37.7	29.9	28.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)