

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: P193334

Luminaire Tested: **GLEON-AF-06-LED-E1-5MQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-5MQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20107 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 193
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

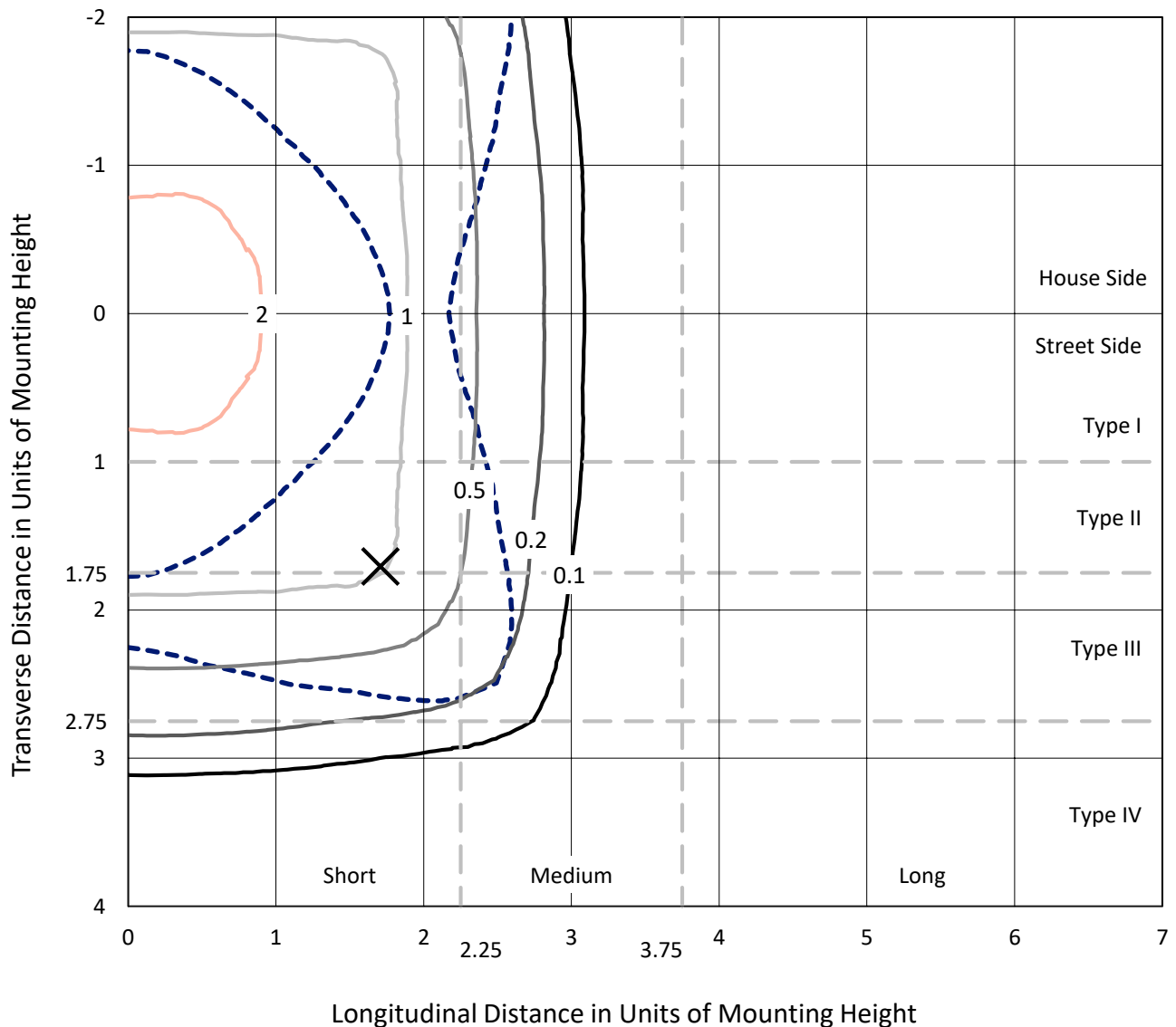


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Iso-Footcandle Lines of Horizontal Illumination

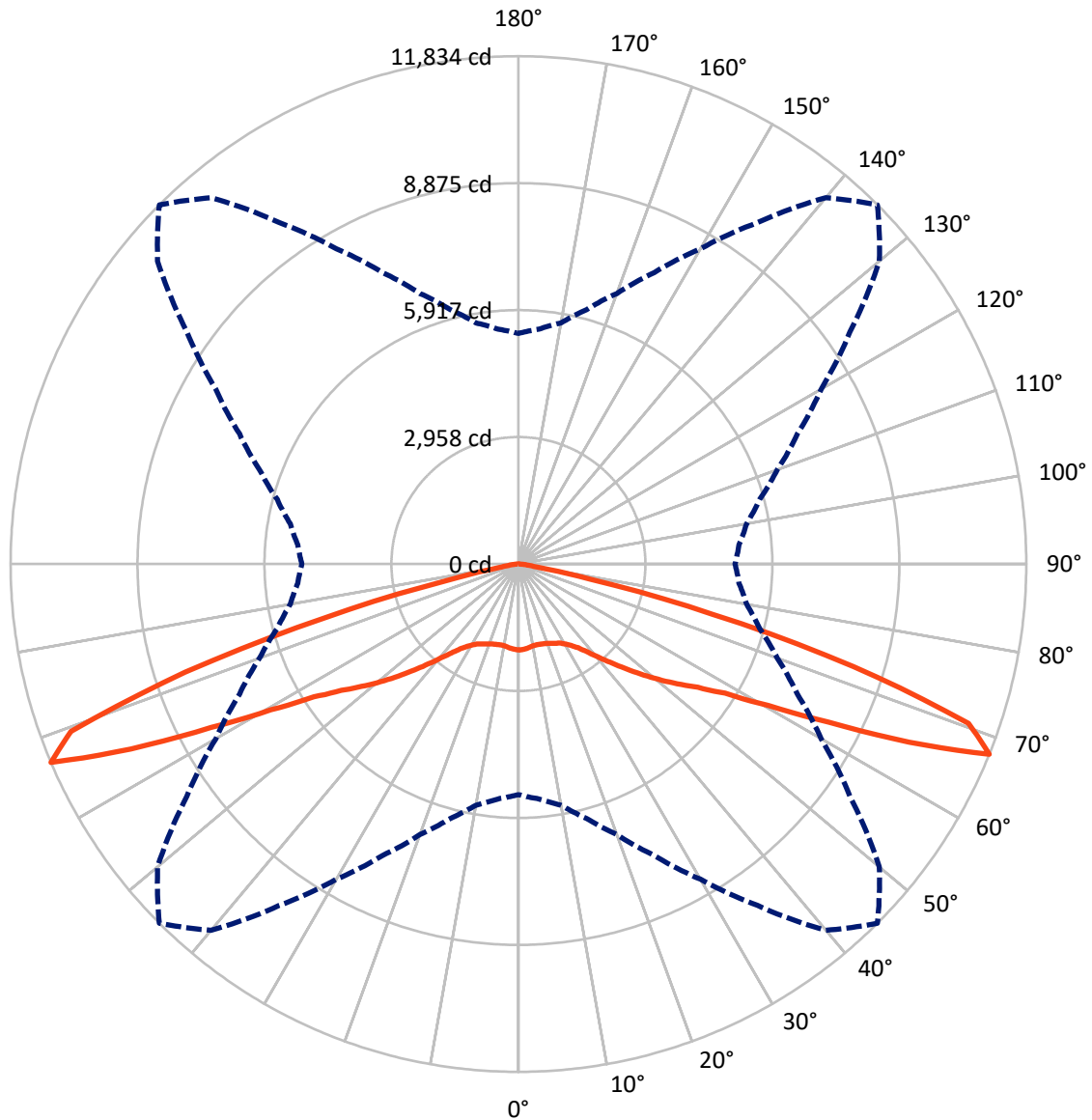
× Max cd
 - - - 1/2 Max cd



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 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10053.5	0.0	10053.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10053.5	0.0	10053.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20107.0	0.0	20107.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.5	0.9
10°-20°	544.2	2.7
20°-30°	925.1	4.6
30°-40°	1512.3	7.5
40°-50°	2699.8	13.4
50°-60°	4551.9	22.6
60°-70°	7063.9	35.1
70°-80°	2481.9	12.3
80°-90°	140.3	0.7
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°	20107.0	100.0
0°-180°	20107.0	100.0



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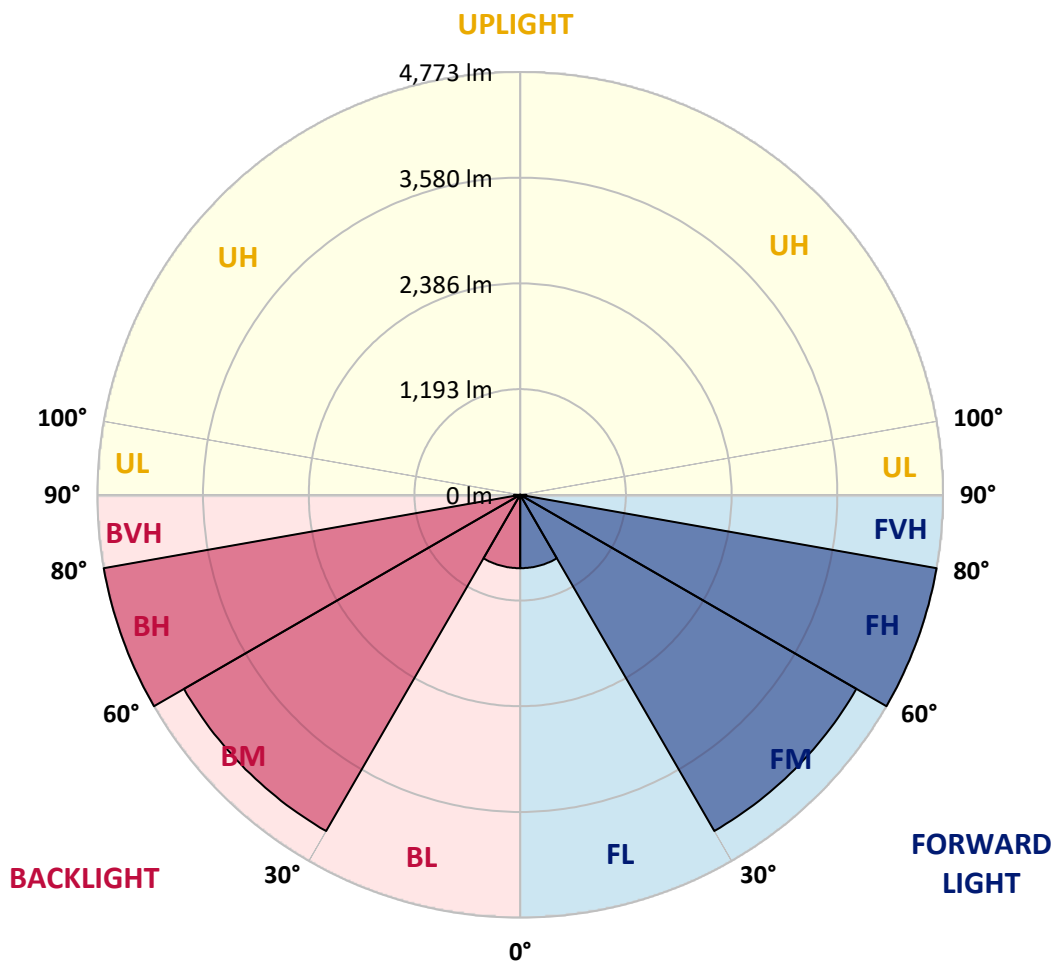
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	828.4	4.1			
FM	(30°-60°)	4382.0	21.8			
FH	(60°-80°)	4772.9	23.7			G2/5000
FVH	(80°-90°)	70.1	0.3			G1/100
BL	(0°-30°)	828.4	4.1	B2/1000		
BM	(30°-60°)	4382.0	21.8	B3/5000		
BH	(60°-80°)	4772.9	23.7	B4/5000		G2/5000
BVH	(80°-90°)	70.1	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°	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7
2.5°	1996.4	1998.2	1998.2	1998.2	1997.3	1997.3	1995.4	1997.3	1996.4	1993.6	1994.5
5°	1979.7	1981.6	1981.6	1980.6	1983.4	1982.5	1979.7	1981.6	1980.6	1978.8	1979.7
7.5°	1955.7	1958.4	1958.4	1957.5	1960.3	1959.4	1957.5	1958.4	1958.4	1955.7	1955.7
10°	1928.8	1930.7	1930.7	1929.8	1934.4	1934.4	1933.5	1936.2	1937.2	1934.4	1932.5
12.5°	1903.9	1906.7	1906.7	1910.4	1915.0	1916.8	1921.5	1925.2	1928.8	1927.9	1924.2
15°	1889.1	1890.9	1894.6	1899.3	1906.7	1913.1	1920.5	1928.8	1936.2	1938.1	1932.5
17.5°	1879.8	1882.6	1888.2	1894.6	1904.8	1915.9	1927.0	1938.1	1948.3	1952.0	1945.5
20°	1877.1	1878.9	1884.5	1895.6	1909.4	1926.1	1941.8	1954.7	1968.6	1973.2	1968.6
22.5°	1882.6	1886.3	1892.8	1905.7	1924.2	1945.5	1964.0	1981.6	1999.1	2007.4	2001.0
25°	1907.6	1911.3	1919.6	1936.2	1956.6	1978.8	2000.0	2020.4	2036.1	2044.4	2039.8
27.5°	1953.8	1958.4	1968.6	1985.3	2007.4	2031.5	2054.6	2071.2	2084.2	2087.0	2081.4
30°	2023.2	2033.3	2045.4	2063.9	2089.7	2110.1	2133.2	2148.0	2163.7	2163.7	2159.1
32.5°	2131.4	2141.5	2154.5	2172.0	2192.4	2214.6	2234.9	2247.9	2264.5	2265.4	2254.3
35°	2293.2	2297.8	2308.9	2320.0	2338.5	2357.9	2375.5	2383.8	2397.7	2398.6	2388.4
37.5°	2506.8	2507.7	2515.1	2518.8	2535.4	2556.7	2573.3	2578.9	2591.8	2590.0	2579.8
40°	2755.5	2760.1	2762.9	2768.4	2786.0	2806.4	2823.9	2826.7	2840.6	2837.8	2824.8
42.5°	3043.1	3044.9	3060.6	3069.0	3085.6	3095.8	3118.0	3120.7	3137.4	3130.0	3115.2
45°	3365.8	3382.4	3397.2	3413.9	3431.4	3443.4	3461.0	3457.3	3468.4	3457.3	3449.0
47.5°	3705.1	3717.2	3750.4	3776.3	3805.0	3815.2	3840.1	3829.0	3840.1	3824.4	3821.6
50°	4078.7	4100.0	4128.6	4158.2	4188.7	4205.4	4237.7	4223.9	4238.7	4223.9	4215.5
52.5°	4446.7	4452.3	4515.1	4558.6	4601.1	4620.5	4640.0	4633.5	4634.4	4633.5	4625.2
55°	4796.2	4809.2	4872.1	4931.2	5005.2	5059.8	5093.1	5089.4	5081.0	5072.7	5058.8
57.5°	5190.1	5203.1	5275.2	5348.3	5432.4	5510.1	5577.6	5646.9	5673.7	5681.1	5650.6
60°	5722.7	5721.8	5818.0	5906.8	6027.0	6142.5	6290.5	6441.2	6614.1	6694.6	6588.2
62.5°	6264.6	6286.8	6425.5	6582.7	6830.5	7071.8	7344.6	7612.8	7886.5	8109.3	7872.6
65°	6199.9	6284.9	6491.1	6847.1	7304.8	7848.5	8436.6	9058.9	9621.1	10007.6	9574.0
67.5°	5373.2	5494.4	5704.3	6137.0	6709.4	7493.5	8481.0	9711.7	11142.2	11833.9	10976.7
70°	3894.7	4031.5	4251.6	4674.2	5241.0	5986.3	7058.9	8536.5	10430.2	11127.4	10183.3
72.5°	1938.1	2012.1	2148.0	2417.1	2846.1	3450.8	4423.6	5843.9	7519.4	8159.2	7296.5
75°	658.4	692.6	715.7	803.5	939.5	1177.1	1660.7	2554.8	3897.5	4672.3	3842.0
77.5°	380.0	381.0	396.7	412.4	435.5	461.4	526.1	690.7	1194.7	1696.8	1236.3
80°	246.0	245.0	258.0	270.0	285.7	298.7	302.4	319.9	368.9	437.4	391.1
82.5°	127.6	143.3	172.0	187.7	217.3	222.8	215.4	209.0	221.0	229.3	234.9
85°	70.3	61.0	91.5	118.4	131.3	133.2	133.2	125.8	130.4	127.6	138.7
87.5°	32.4	29.6	36.1	58.3	62.0	52.7	55.5	49.0	35.1	34.2	38.8
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°	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7
2.5°	1994.5	1995.4	1995.4	1998.2	1999.1	2001.0	2002.8	2003.7
5°	1978.8	1981.6	1979.7	1982.5	1982.5	1984.3	1984.3	1985.3
7.5°	1955.7	1958.4	1958.4	1958.4	1957.5	1960.3	1960.3	1960.3
10°	1931.6	1933.5	1932.5	1930.7	1928.8	1931.6	1930.7	1929.8
12.5°	1924.2	1919.6	1915.9	1914.1	1910.4	1911.3	1908.5	1908.5
15°	1928.8	1920.5	1914.1	1911.3	1907.6	1905.7	1903.9	1904.8
17.5°	1940.9	1930.7	1922.4	1917.8	1913.1	1910.4	1906.7	1907.6
20°	1962.1	1950.1	1938.1	1928.8	1920.5	1915.9	1913.1	1912.2
22.5°	1993.6	1976.0	1958.4	1944.6	1933.5	1927.0	1924.2	1922.4
25°	2029.6	2010.2	1989.9	1974.2	1963.1	1954.7	1949.2	1949.2
27.5°	2074.9	2059.2	2040.7	2022.2	2012.1	2003.7	2000.0	1998.2
30°	2150.8	2136.0	2121.2	2103.6	2090.7	2082.3	2075.9	2070.3
32.5°	2247.9	2235.8	2223.8	2210.9	2198.9	2187.8	2177.6	2173.0
35°	2384.7	2375.5	2367.1	2352.3	2347.7	2341.2	2335.7	2331.1
37.5°	2573.3	2569.6	2569.6	2553.9	2550.2	2547.4	2541.9	2542.8
40°	2821.2	2824.8	2820.2	2814.7	2811.9	2804.5	2804.5	2811.0
42.5°	3114.3	3117.0	3127.2	3118.0	3128.1	3118.9	3113.3	3118.0
45°	3454.5	3464.7	3485.1	3475.8	3482.3	3466.6	3447.1	3448.1
47.5°	3836.4	3845.7	3854.0	3847.5	3848.5	3822.6	3796.7	3790.2
50°	4233.1	4236.8	4241.4	4232.2	4234.0	4205.4	4175.8	4176.7
52.5°	4625.2	4642.7	4661.2	4636.3	4630.7	4598.4	4556.7	4540.1
55°	5073.6	5098.6	5077.3	5033.9	4990.4	4947.0	4892.4	4883.2
57.5°	5626.6	5584.0	5517.5	5435.2	5375.1	5314.0	5258.6	5235.4
60°	6395.9	6235.9	6115.7	5993.7	5916.9	5842.0	5769.0	5757.9
62.5°	7483.3	7206.8	6967.3	6714.9	6508.7	6347.8	6219.3	6183.2
65°	8846.3	8192.5	7625.7	7096.8	6637.2	6290.5	6072.3	5976.1
67.5°	9432.5	8141.7	7169.8	6419.0	5818.0	5398.2	5162.4	5045.0
70°	8288.7	6751.9	5695.0	4943.3	4395.9	3948.3	3734.7	3609.0
72.5°	5702.4	4295.1	3396.3	2772.1	2334.8	1960.3	1812.3	1801.2
75°	2560.4	1695.8	1168.8	900.6	758.2	659.3	628.8	605.7
77.5°	716.6	529.8	472.5	442.0	412.4	378.2	365.2	368.0
80°	348.6	329.2	316.2	296.8	270.0	241.3	228.4	233.9
82.5°	231.2	228.4	236.7	222.8	184.0	156.3	131.3	120.2
85°	140.5	142.4	145.2	146.1	123.9	86.9	59.2	66.6
87.5°	55.5	63.8	69.3	72.1	67.5	41.6	33.3	34.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)