

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: P193416

Luminaire Tested: **GLEON-AF-08-LED-E1-5WQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-5WQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27014 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 257
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

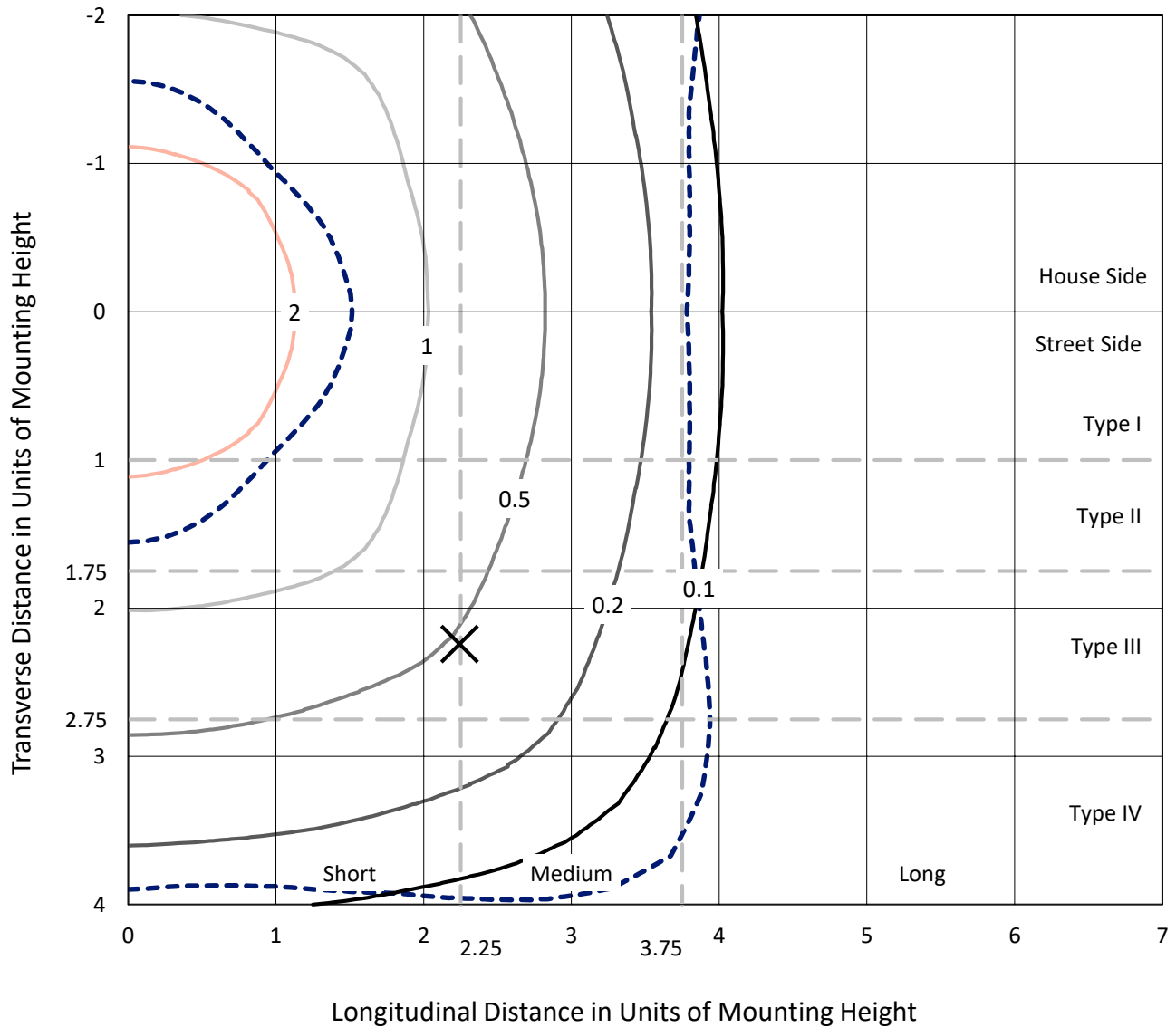


REPORT NUMBER: P193416

CATALOG NUMBER: GLEON-AF-08-LED-E1-5WQ-8030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

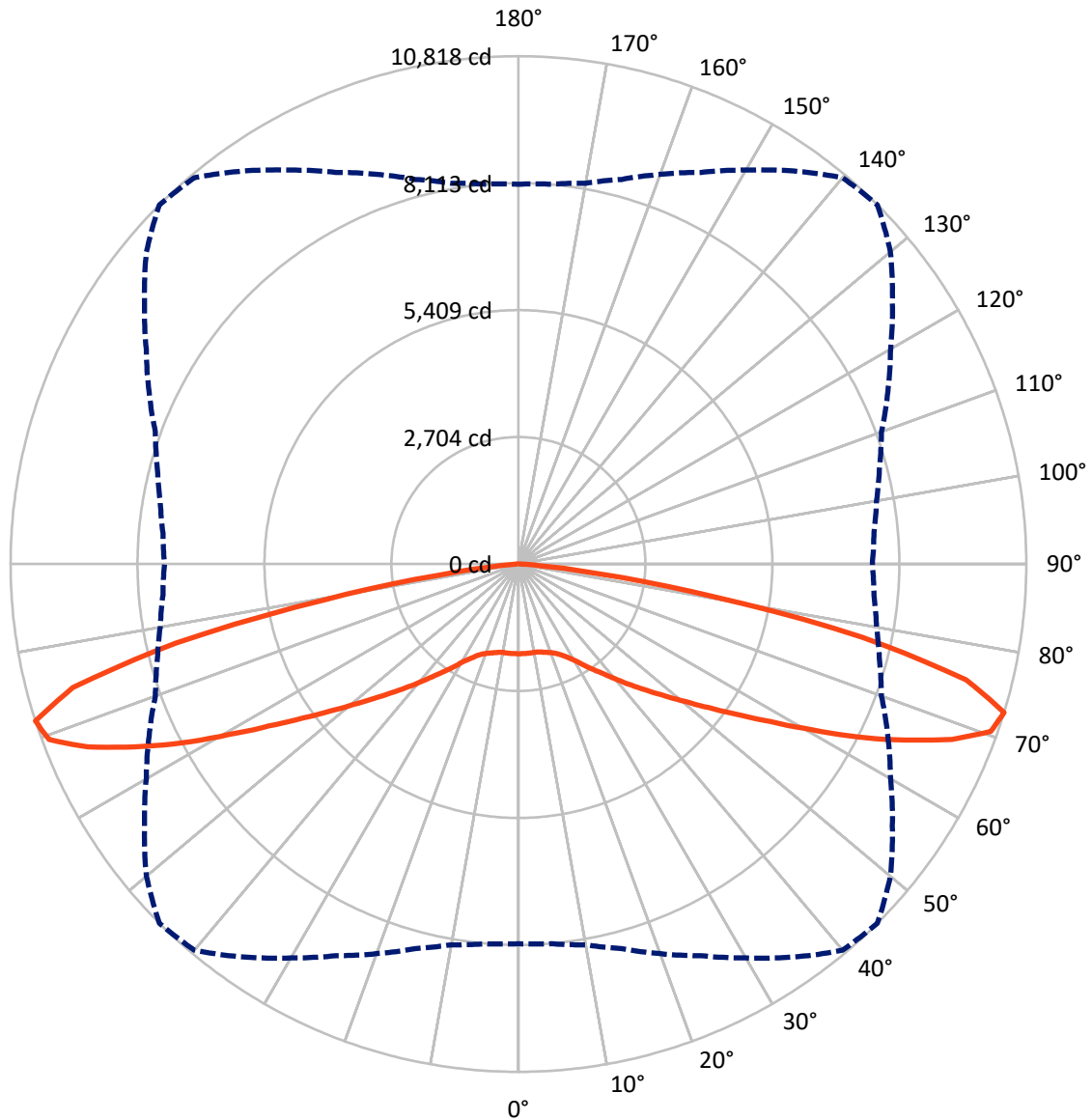


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P193416

CATALOG NUMBER: GLEON-AF-08-LED-E1-5WQ-8030-600

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P193416

CATALOG NUMBER: GLEON-AF-08-LED-E1-5WQ-8030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13507.0	0.0	13507.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13507.0	0.0	13507.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27014.0	0.0	27014.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.7	0.7
10°-20°	554.8	2.1
20°-30°	1013.8	3.8
30°-40°	1748.0	6.5
40°-50°	2988.2	11.1
50°-60°	4843.5	17.9
60°-70°	8035.2	29.7
70°-80°	7077.1	26.2
80°-90°	570.6	2.1
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°	27014.0	100.0
0°-180°	27014.0	100.0



REPORT NUMBER: P193416

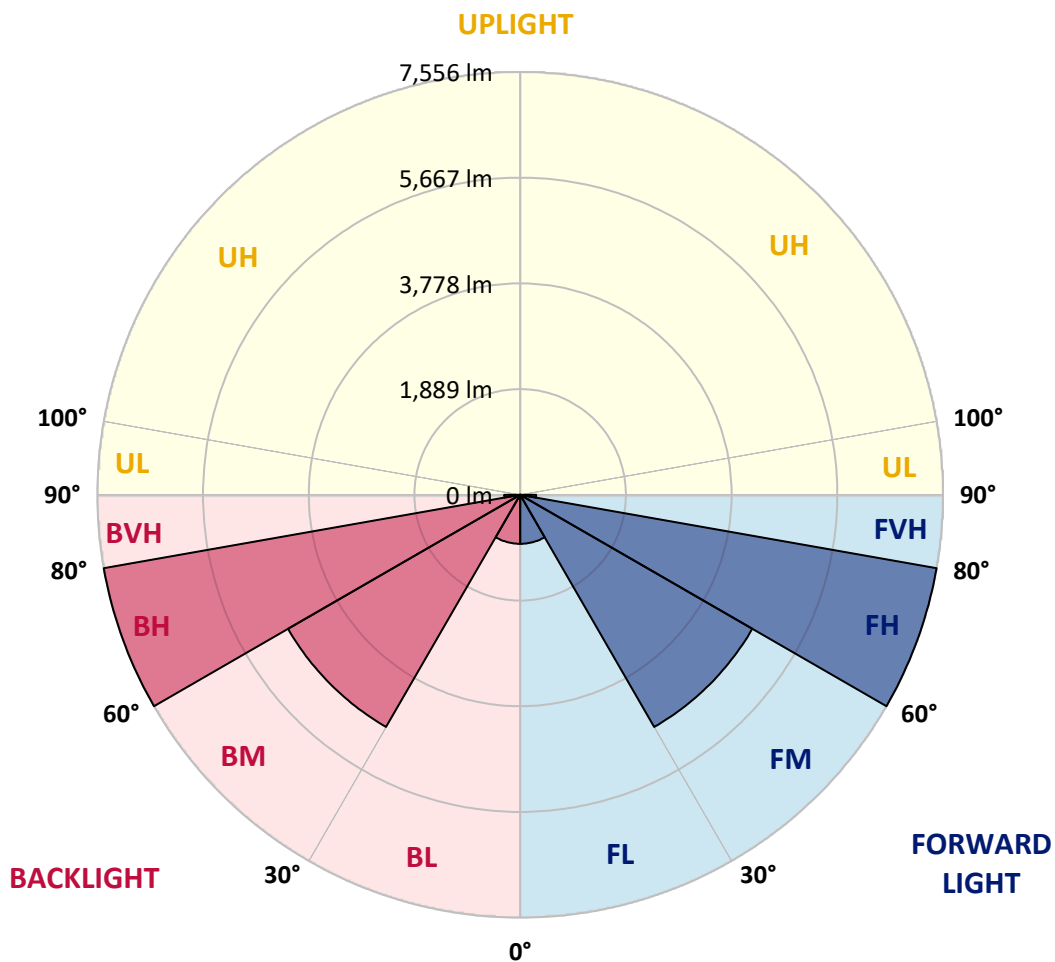
CATALOG NUMBER: GLEON-AF-08-LED-E1-5WQ-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	875.6	3.2			
FM	(30°-60°)	4789.9	17.7			
FH	(60°-80°)	7556.2	28.0			G4/12000
FVH	(80°-90°)	285.3	1.1			G3/500
BL	(0°-30°)	875.6	3.2	B2/1000		
BM	(30°-60°)	4789.9	17.7	B3/5000		
BH	(60°-80°)	7556.2	28.0	B5		G4/12000
BVH	(80°-90°)	285.3	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





REPORT NUMBER: P193416

CATALOG NUMBER: GLEON-AF-08-LED-E1-5WQ-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1913.0	1913.0	1913.0	1913.0	1913.0	1913.0	1913.0	1913.0	1913.0	1913.0	1913.0
2.5°	1913.0	1914.2	1915.5	1914.2	1914.2	1913.0	1911.8	1913.0	1911.8	1909.3	1910.5
5°	1919.2	1921.7	1921.7	1919.2	1920.4	1919.2	1916.7	1918.0	1915.5	1911.8	1911.8
7.5°	1926.6	1927.9	1927.9	1925.4	1926.6	1924.2	1921.7	1920.4	1918.0	1913.0	1909.3
10°	1937.8	1939.0	1937.8	1935.3	1935.3	1931.6	1925.4	1922.9	1918.0	1910.5	1906.8
12.5°	1950.2	1951.4	1950.2	1947.7	1946.5	1940.3	1935.3	1931.6	1927.9	1921.7	1915.5
15°	1967.5	1970.0	1967.5	1962.6	1958.9	1953.9	1951.4	1952.7	1953.9	1948.9	1942.7
17.5°	1999.7	2001.0	1997.3	1986.1	1981.2	1976.2	1976.2	1978.7	1982.4	1979.9	1973.7
20°	2059.2	2055.5	2046.8	2033.2	2027.0	2018.3	2017.1	2018.3	2018.3	2017.1	2012.1
22.5°	2133.6	2131.1	2119.9	2102.6	2093.9	2088.9	2081.5	2075.3	2074.1	2070.4	2065.4
25°	2222.8	2221.5	2207.9	2193.0	2186.8	2180.6	2174.4	2165.8	2158.3	2149.7	2144.7
27.5°	2336.7	2331.8	2312.0	2304.5	2295.9	2292.1	2283.5	2273.6	2267.4	2256.2	2250.0
30°	2461.9	2461.9	2445.8	2443.3	2443.3	2434.6	2424.7	2407.4	2396.2	2385.1	2381.4
32.5°	2587.0	2588.3	2572.2	2577.1	2580.8	2587.0	2589.5	2583.3	2575.9	2574.6	2567.2
35°	2767.9	2763.0	2746.9	2750.6	2749.3	2748.1	2748.1	2761.7	2764.2	2766.7	2751.8
37.5°	2992.2	2992.2	2976.1	2976.1	2968.6	2961.2	2951.3	2960.0	2973.6	2977.3	2967.4
40°	3248.6	3257.3	3237.5	3236.3	3238.7	3215.2	3204.0	3217.7	3226.3	3241.2	3230.1
42.5°	3551.0	3544.8	3524.9	3522.5	3508.8	3501.4	3491.5	3502.6	3516.3	3526.2	3529.9
45°	3840.9	3835.9	3813.6	3813.6	3800.0	3793.8	3798.8	3817.3	3823.5	3837.2	3850.8
47.5°	4127.1	4120.9	4106.0	4112.2	4113.5	4124.6	4140.7	4158.1	4175.4	4194.0	4200.2
50°	4419.5	4420.7	4404.6	4419.5	4438.1	4469.1	4512.4	4540.9	4576.9	4600.4	4607.8
52.5°	4685.9	4690.8	4708.2	4742.9	4780.0	4840.8	4915.1	4984.5	5044.0	5083.6	5081.1
55°	5005.5	5013.0	5055.1	5114.6	5175.3	5267.0	5377.2	5499.9	5599.0	5656.0	5620.1
57.5°	5414.4	5430.5	5477.6	5558.1	5648.6	5767.5	5918.7	6103.3	6256.9	6333.8	6275.5
60°	5975.7	5985.6	6042.6	6131.8	6240.8	6388.3	6590.2	6838.0	7054.8	7156.4	7089.5
62.5°	6715.4	6733.9	6779.8	6870.2	6981.7	7149.0	7395.6	7705.3	7975.4	8116.7	7965.5
65°	7598.8	7658.2	7696.6	7788.3	7892.4	8069.6	8327.3	8659.3	8949.3	9042.2	8867.5
67.5°	8473.5	8525.5	8592.4	8697.8	8803.1	9002.5	9241.7	9563.8	9882.2	9966.5	9695.1
70°	8856.3	8886.1	8990.2	9133.9	9335.8	9571.2	9847.5	10209.3	10603.3	10672.7	10328.3
72.5°	8089.4	8119.1	8235.6	8479.7	8831.6	9205.7	9687.7	10219.2	10739.6	10817.7	10343.1
75°	6118.2	6069.8	6242.1	6565.4	7040.0	7561.6	8235.6	8997.6	9749.7	9847.5	9281.3
77.5°	3161.9	3155.7	3285.8	3687.3	4253.5	4847.0	5589.1	6450.2	7186.2	7483.5	7022.6
80°	890.8	900.8	962.7	1162.2	1493.0	1921.7	2501.5	3308.1	3910.3	4217.5	3959.8
82.5°	349.4	376.7	400.2	437.4	480.7	543.9	726.1	1080.4	1449.6	1732.1	1418.7
85°	125.1	133.8	189.6	224.3	228.0	240.4	273.8	319.7	385.3	459.7	377.9
87.5°	47.1	52.0	60.7	100.4	99.1	90.4	110.3	115.2	86.7	79.3	97.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193416

CATALOG NUMBER: GLEON-AF-08-LED-E1-5WQ-8030-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1913.0	1913.0	1913.0	1913.0	1913.0	1913.0	1913.0	1913.0
2.5°	1908.1	1909.3	1909.3	1910.5	1911.8	1911.8	1914.2	1914.2
5°	1909.3	1909.3	1906.8	1908.1	1906.8	1906.8	1908.1	1908.1
7.5°	1906.8	1905.6	1903.1	1901.9	1899.4	1899.4	1899.4	1899.4
10°	1903.1	1901.9	1899.4	1898.1	1896.9	1896.9	1896.9	1896.9
12.5°	1913.0	1909.3	1906.8	1905.6	1905.6	1905.6	1905.6	1905.6
15°	1939.0	1930.4	1924.2	1924.2	1925.4	1927.9	1927.9	1930.4
17.5°	1971.2	1961.3	1955.1	1950.2	1952.7	1956.4	1958.9	1961.3
20°	2009.7	2004.7	1996.0	1991.1	1991.1	1996.0	1998.5	1999.7
22.5°	2062.9	2059.2	2055.5	2049.3	2049.3	2051.8	2056.7	2056.7
25°	2142.2	2139.7	2137.3	2132.3	2131.1	2131.1	2133.6	2136.0
27.5°	2241.3	2242.6	2240.1	2238.9	2235.1	2233.9	2237.6	2236.4
30°	2373.9	2380.1	2386.3	2381.4	2375.2	2371.4	2367.7	2362.8
32.5°	2553.6	2546.1	2541.2	2532.5	2521.4	2511.4	2504.0	2495.3
35°	2723.3	2710.9	2706.0	2713.4	2712.2	2706.0	2697.3	2689.9
37.5°	2931.5	2929.0	2931.5	2945.1	2942.6	2948.8	2931.5	2930.2
40°	3194.1	3196.6	3214.0	3230.1	3238.7	3247.4	3237.5	3227.6
42.5°	3498.9	3497.7	3503.9	3526.2	3541.1	3551.0	3529.9	3527.4
45°	3821.1	3812.4	3817.3	3835.9	3850.8	3862.0	3838.4	3838.4
47.5°	4175.4	4160.6	4144.4	4165.5	4174.2	4181.6	4163.0	4156.8
50°	4570.7	4539.7	4505.0	4513.7	4513.7	4511.2	4487.6	4486.4
52.5°	5024.1	4967.1	4903.9	4880.4	4866.8	4851.9	4811.0	4791.2
55°	5545.7	5460.3	5361.1	5300.4	5268.2	5227.3	5159.2	5140.6
57.5°	6155.3	6021.5	5850.5	5776.2	5704.3	5637.4	5561.9	5540.8
60°	6877.7	6680.7	6453.9	6316.4	6238.3	6173.9	6095.9	6092.1
62.5°	7683.0	7372.0	7115.6	6991.7	6934.7	6877.7	6803.3	6813.2
65°	8502.0	8177.4	7937.0	7836.7	7783.4	7736.3	7662.0	7673.1
67.5°	9309.8	9011.2	8747.3	8644.5	8585.0	8525.5	8458.6	8469.8
70°	9889.7	9519.2	9221.9	8993.9	8851.4	8690.3	8586.2	8560.2
72.5°	9723.6	9152.5	8680.4	8228.2	7963.0	7747.4	7601.2	7538.1
75°	8415.3	7634.7	7027.6	6472.5	6160.3	5906.3	5721.7	5606.5
77.5°	6249.5	5372.3	4654.9	4015.6	3510.1	3170.6	2931.5	2776.6
80°	3420.9	2601.9	1901.9	1336.9	982.5	816.5	721.1	675.3
82.5°	1065.5	687.6	506.7	437.4	406.4	389.0	360.5	314.7
85°	339.5	297.4	276.3	263.9	251.5	219.3	151.2	137.5
87.5°	131.3	135.1	133.8	126.4	128.9	92.9	74.3	65.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)