

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: P193352

Luminaire Tested: **GLEON-AF-04-LED-E1-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193352
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-04-LED-E1-5MQ-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20583 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

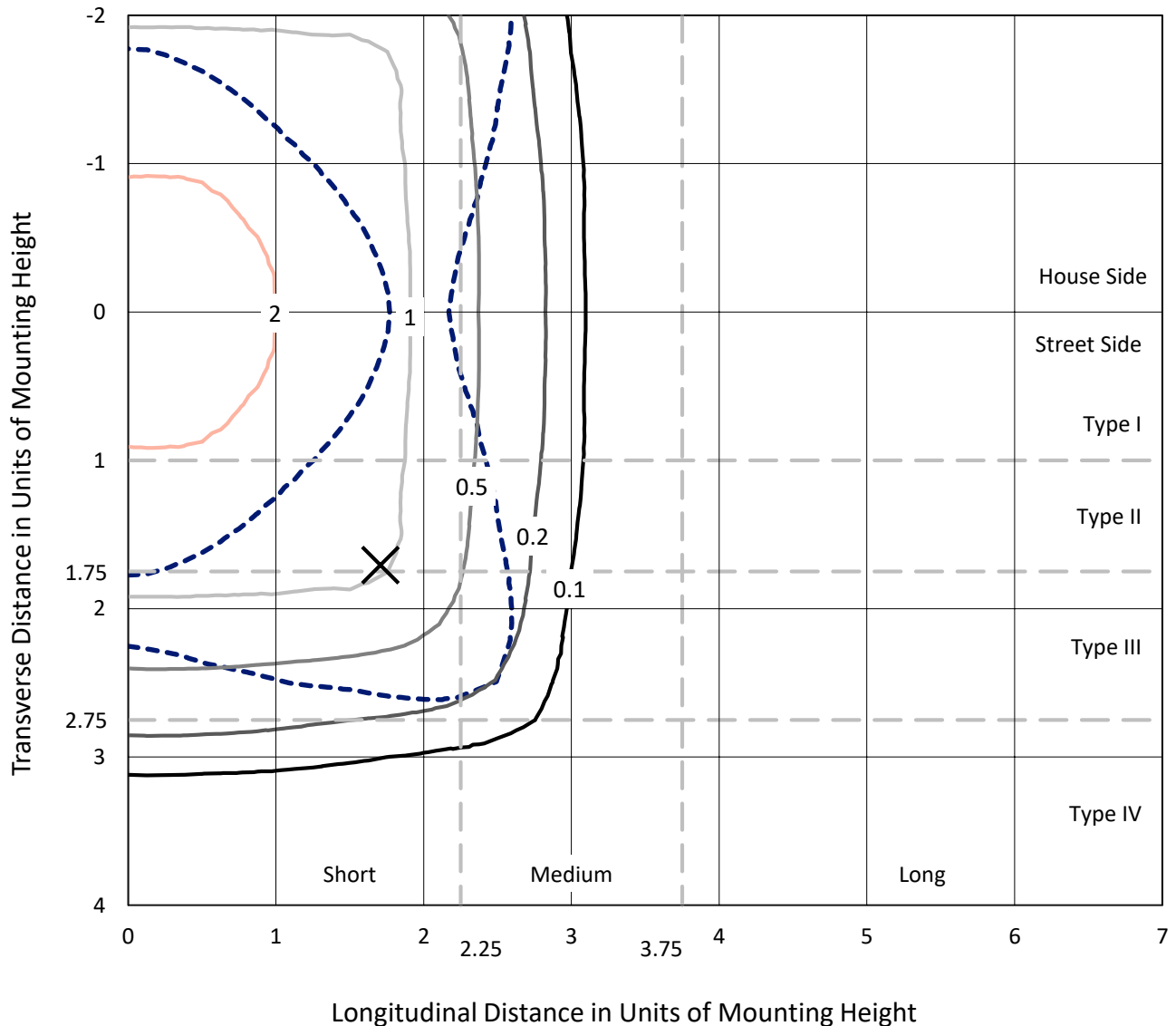
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

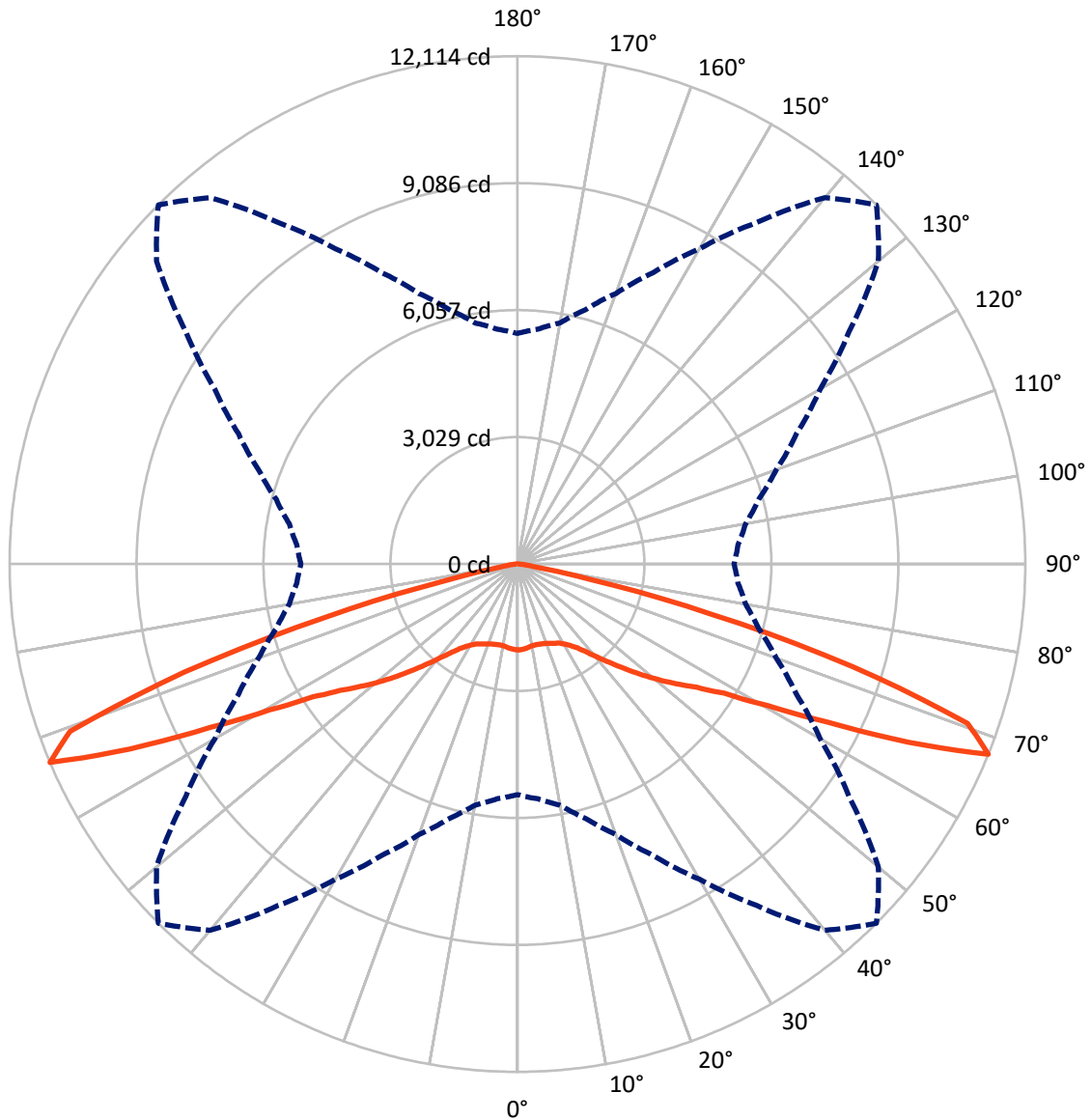
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	10291.5	0.0	10291.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10291.5	0.0	10291.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20583.0	0.0	20583.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.0	0.9
10°-20°	557.1	2.7
20°-30°	947.0	4.6
30°-40°	1548.1	7.5
40°-50°	2763.7	13.4
50°-60°	4659.7	22.6
60°-70°	7231.1	35.1
70°-80°	2540.7	12.3
80°-90°	143.6	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°	20583.0	100.0
0°-180°	20583.0	100.0



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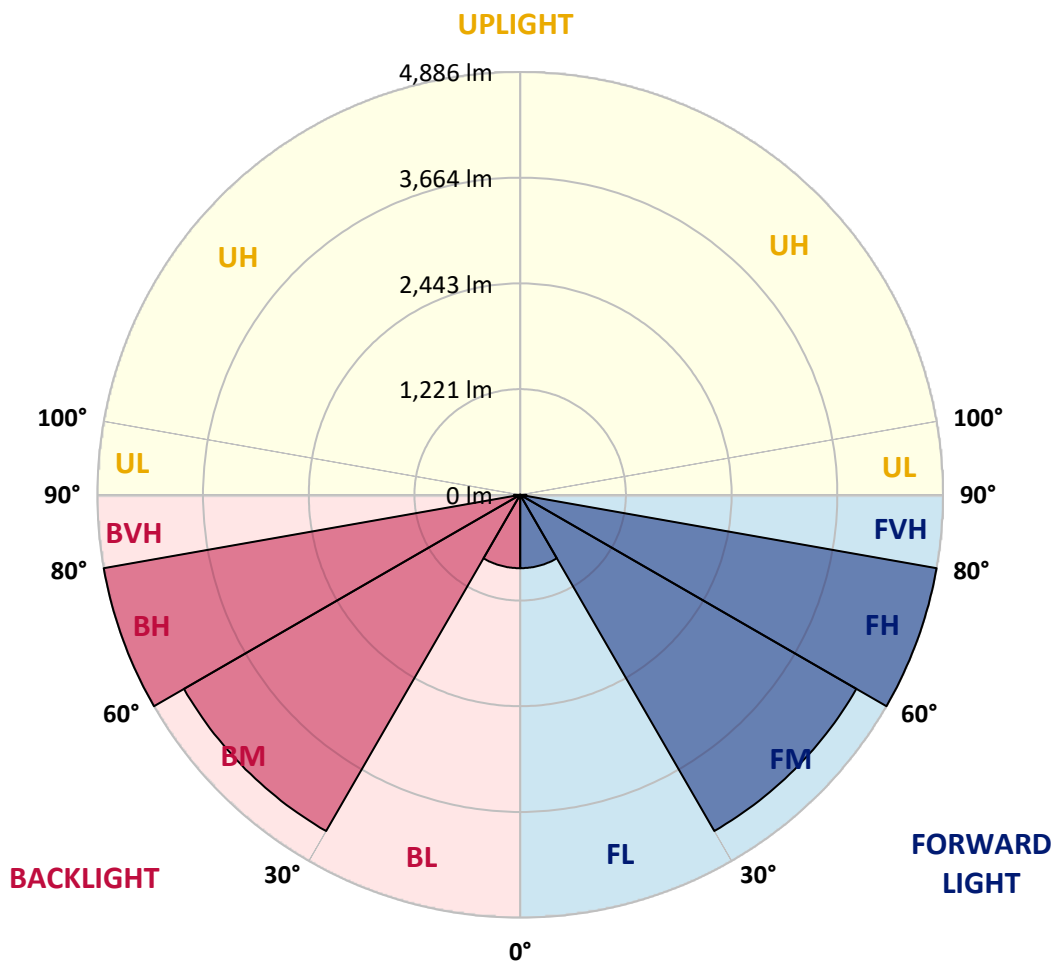
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	848.1	4.1			
FM	(30°-60°)	4485.7	21.8			
FH	(60°-80°)	4885.9	23.7			G2/5000
FVH	(80°-90°)	71.8	0.3			G1/100
BL	(0°-30°)	848.1	4.1	B2/1000		
BM	(30°-60°)	4485.7	21.8	B3/5000		
BH	(60°-80°)	4885.9	23.7	B4/5000		G2/5000
BVH	(80°-90°)	71.8	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°	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2
2.5°	2043.6	2045.5	2045.5	2045.5	2044.6	2044.6	2042.7	2044.6	2043.6	2040.8	2041.7
5°	2026.6	2028.5	2028.5	2027.5	2030.4	2029.4	2026.6	2028.5	2027.5	2025.6	2026.6
7.5°	2002.0	2004.8	2004.8	2003.9	2006.7	2005.7	2003.9	2004.8	2004.8	2002.0	2002.0
10°	1974.5	1976.4	1976.4	1975.5	1980.2	1980.2	1979.2	1982.1	1983.0	1980.2	1978.3
12.5°	1949.0	1951.8	1951.8	1955.6	1960.3	1962.2	1966.9	1970.7	1974.5	1973.6	1969.8
15°	1933.8	1935.7	1939.5	1944.2	1951.8	1958.4	1966.0	1974.5	1982.1	1984.0	1978.3
17.5°	1924.3	1927.2	1932.9	1939.5	1949.9	1961.3	1972.6	1984.0	1994.4	1998.2	1991.5
20°	1921.5	1923.4	1929.1	1940.4	1954.6	1971.7	1987.8	2001.0	2015.2	2019.9	2015.2
22.5°	1927.2	1931.0	1937.6	1950.8	1969.8	1991.5	2010.5	2028.5	2046.4	2055.0	2048.3
25°	1952.7	1956.5	1965.0	1982.1	2002.9	2025.6	2047.4	2068.2	2084.3	2092.8	2088.1
27.5°	2000.1	2004.8	2015.2	2032.3	2055.0	2079.6	2103.2	2120.3	2133.5	2136.4	2130.7
30°	2071.1	2081.5	2093.8	2112.7	2139.2	2160.0	2183.7	2198.8	2214.9	2214.9	2210.2
32.5°	2181.8	2192.2	2205.5	2223.5	2244.3	2267.0	2287.8	2301.1	2318.1	2319.1	2307.7
35°	2347.5	2352.2	2363.5	2374.9	2393.8	2413.7	2431.7	2440.2	2454.4	2455.4	2444.9
37.5°	2566.1	2567.1	2574.6	2578.4	2595.5	2617.2	2634.3	2639.9	2653.2	2651.3	2640.9
40°	2820.7	2825.5	2828.3	2834.0	2852.0	2872.8	2890.8	2893.6	2907.8	2905.0	2891.7
42.5°	3115.1	3117.0	3133.1	3141.6	3158.7	3169.1	3191.8	3194.6	3211.7	3204.1	3188.9
45°	3445.5	3462.5	3477.6	3494.7	3512.7	3525.0	3543.0	3539.2	3550.5	3539.2	3530.6
47.5°	3792.8	3805.1	3839.2	3865.7	3895.1	3905.5	3931.0	3919.7	3931.0	3914.9	3912.1
50°	4175.3	4197.0	4226.4	4256.7	4287.9	4304.9	4338.1	4323.9	4339.0	4323.9	4315.3
52.5°	4552.0	4557.7	4622.0	4666.5	4710.1	4729.9	4749.8	4743.2	4744.1	4743.2	4734.7
55°	4909.8	4923.0	4987.4	5048.0	5123.7	5179.5	5213.6	5209.8	5201.3	5192.8	5178.6
57.5°	5313.0	5326.3	5400.1	5474.9	5561.0	5640.5	5709.6	5780.6	5808.1	5815.6	5784.4
60°	5858.2	5857.3	5955.7	6046.6	6169.6	6288.0	6439.4	6593.7	6770.7	6853.1	6744.2
62.5°	6412.9	6435.6	6577.6	6738.5	6992.2	7239.2	7518.5	7793.0	8073.2	8301.3	8059.0
65°	6346.6	6433.7	6644.8	7009.2	7477.8	8034.4	8636.4	9273.4	9848.9	10244.6	9800.6
67.5°	5500.4	5624.4	5839.3	6282.3	6868.2	7670.9	8681.8	9941.7	11406.0	12114.0	11236.5
70°	3986.9	4127.0	4352.3	4784.8	5365.1	6128.0	7226.0	8738.6	10677.1	11390.8	10424.4
72.5°	1984.0	2059.7	2198.8	2474.3	2913.5	3532.5	4528.3	5982.2	7697.4	8352.4	7469.3
75°	673.9	709.0	732.6	822.6	961.7	1205.0	1700.0	2615.3	3989.7	4782.9	3932.9
77.5°	389.0	390.0	406.1	422.2	445.8	472.3	538.6	707.1	1222.9	1736.9	1265.5
80°	251.8	250.8	264.1	276.4	292.5	305.7	309.5	327.5	377.7	447.7	400.4
82.5°	130.6	146.7	176.1	192.2	222.4	228.1	220.5	213.9	226.2	234.7	240.4
85°	71.9	62.5	93.7	121.2	134.4	136.3	136.3	128.7	133.5	130.6	142.0
87.5°	33.1	30.3	36.9	59.6	63.4	54.0	56.8	50.2	36.0	35.0	39.8
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°	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2
2.5°	2041.7	2042.7	2042.7	2045.5	2046.4	2048.3	2050.2	2051.2
5°	2025.6	2028.5	2026.6	2029.4	2029.4	2031.3	2031.3	2032.3
7.5°	2002.0	2004.8	2004.8	2004.8	2003.9	2006.7	2006.7	2006.7
10°	1977.4	1979.2	1978.3	1976.4	1974.5	1977.4	1976.4	1975.5
12.5°	1969.8	1965.0	1961.3	1959.4	1955.6	1956.5	1953.7	1953.7
15°	1974.5	1966.0	1959.4	1956.5	1952.7	1950.8	1949.0	1949.9
17.5°	1986.8	1976.4	1967.9	1963.2	1958.4	1955.6	1951.8	1952.7
20°	2008.6	1996.3	1984.0	1974.5	1966.0	1961.3	1958.4	1957.5
22.5°	2040.8	2022.8	2004.8	1990.6	1979.2	1972.6	1969.8	1967.9
25°	2077.7	2057.8	2037.0	2020.9	2009.5	2001.0	1995.3	1995.3
27.5°	2124.1	2108.0	2089.0	2070.1	2059.7	2051.2	2047.4	2045.5
30°	2201.7	2186.5	2171.4	2153.4	2140.2	2131.6	2125.0	2119.3
32.5°	2301.1	2288.8	2276.5	2263.2	2250.9	2239.5	2229.1	2224.4
35°	2441.2	2431.7	2423.2	2408.0	2403.3	2396.7	2391.0	2386.3
37.5°	2634.3	2630.5	2630.5	2614.4	2610.6	2607.8	2602.1	2603.0
40°	2887.9	2891.7	2887.0	2881.3	2878.5	2870.9	2870.9	2877.5
42.5°	3188.0	3190.8	3201.2	3191.8	3202.2	3192.7	3187.0	3191.8
45°	3536.3	3546.7	3567.6	3558.1	3564.7	3548.6	3528.8	3529.7
47.5°	3927.3	3936.7	3945.2	3938.6	3939.6	3913.1	3886.6	3879.9
50°	4333.3	4337.1	4341.8	4332.4	4334.3	4304.9	4274.6	4275.6
52.5°	4734.7	4752.6	4771.6	4746.0	4740.3	4707.2	4664.6	4647.6
55°	5193.7	5219.3	5197.5	5153.0	5108.6	5064.1	5008.2	4998.8
57.5°	5759.8	5716.2	5648.1	5563.8	5502.3	5439.8	5383.1	5359.4
60°	6547.3	6383.6	6260.5	6135.6	6057.0	5980.3	5905.6	5894.2
62.5°	7660.5	7377.4	7132.3	6873.9	6662.8	6498.1	6366.5	6329.6
65°	9055.7	8386.5	7806.2	7264.8	6794.4	6439.4	6216.0	6117.6
67.5°	9655.8	8334.4	7339.6	6571.0	5955.7	5526.0	5284.6	5164.4
70°	8484.9	6911.7	5829.8	5060.3	4499.9	4041.8	3823.1	3694.4
72.5°	5837.4	4396.7	3476.7	2837.8	2390.0	2006.7	1855.2	1843.9
75°	2621.0	1736.0	1196.4	921.9	776.2	674.9	643.7	620.0
77.5°	733.6	542.4	483.7	452.5	422.2	387.1	373.9	376.7
80°	356.9	337.0	323.7	303.8	276.4	247.1	233.8	239.5
82.5°	236.6	233.8	242.3	228.1	188.4	160.0	134.4	123.1
85°	143.9	145.8	148.6	149.6	126.8	89.0	60.6	68.2
87.5°	56.8	65.3	71.0	73.8	69.1	42.6	34.1	35.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)