

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: P191593

Luminaire Tested: **GLEON-AF-05-LED-E1-5MQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191593
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-05-LED-E1-5MQ-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 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: 20591 lumens
Efficiency: N/A
Efficacy: 127.1 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): 162
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

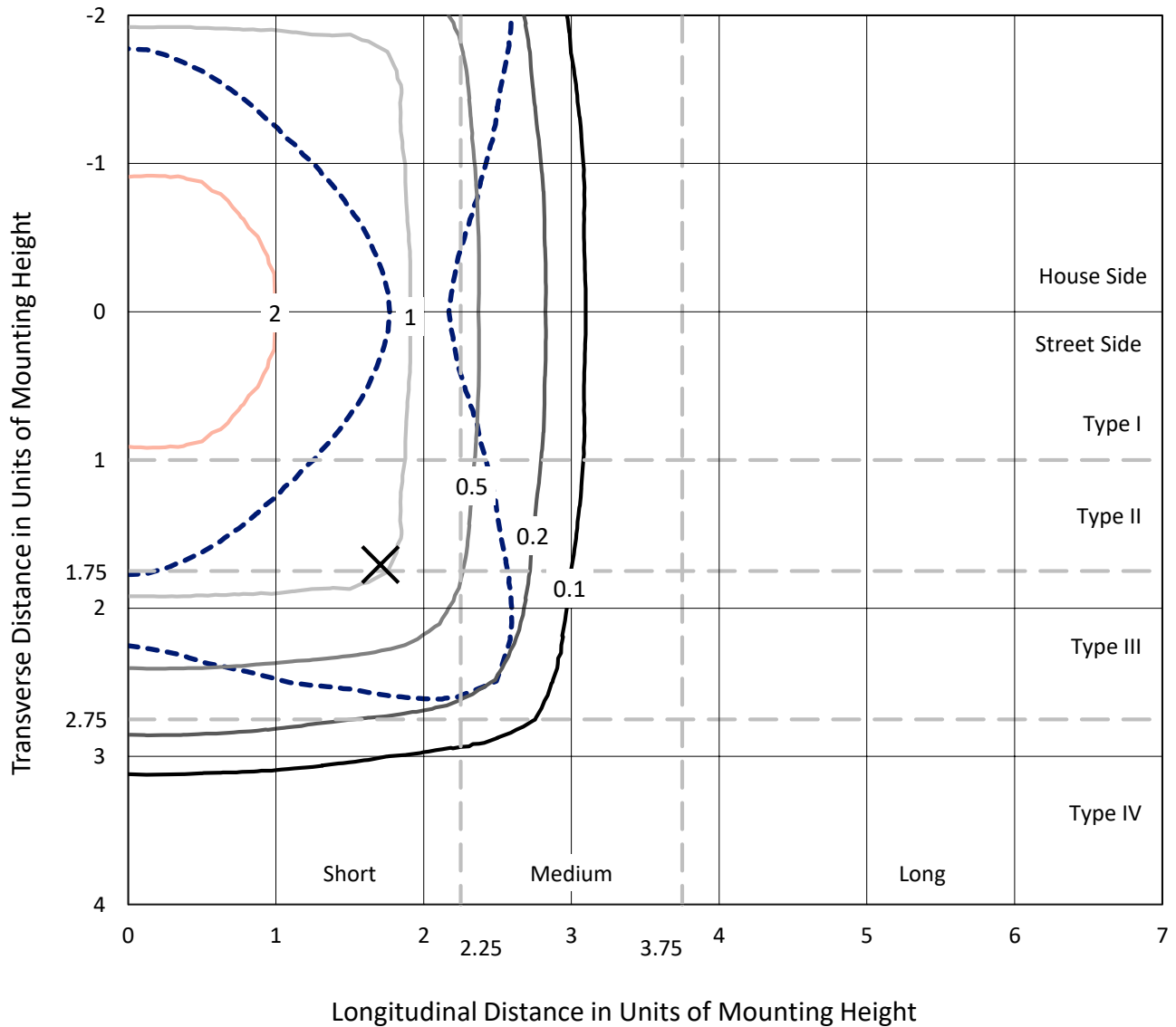


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Iso-Footcandle Lines of Horizontal Illumination

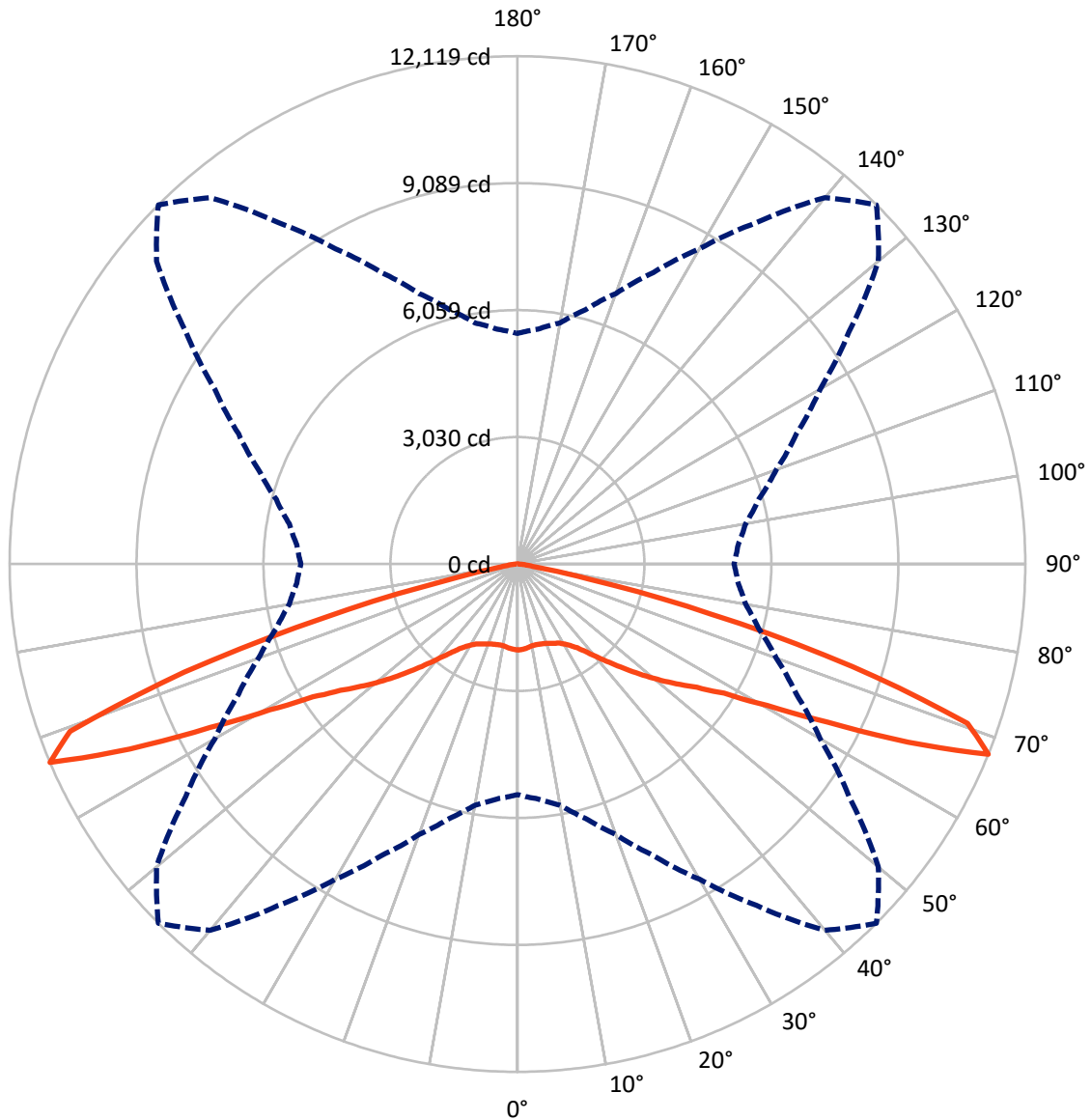
✕ Max cd
 - - - 1/2 Max cd



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	10295.5	0.0	10295.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10295.5	0.0	10295.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20591.0	0.0	20591.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.1	0.9
10°-20°	557.3	2.7
20°-30°	947.4	4.6
30°-40°	1548.7	7.5
40°-50°	2764.8	13.4
50°-60°	4661.5	22.6
60°-70°	7233.9	35.1
70°-80°	2541.7	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°	20591.0	100.0
0°-180°	20591.0	100.0



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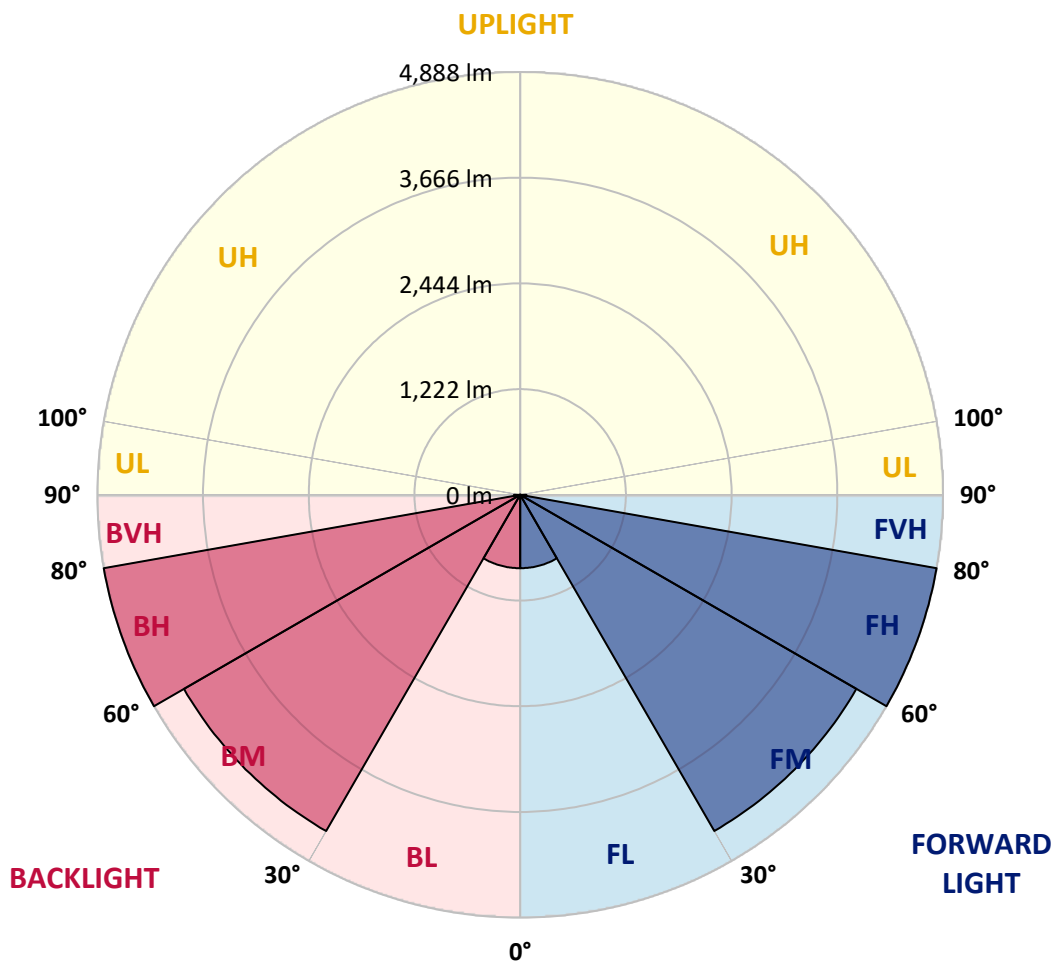
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	848.4	4.1			
FM	(30°-60°)	4487.5	21.8			
FH	(60°-80°)	4887.8	23.7			G2/5000
FVH	(80°-90°)	71.8	0.3			G1/100
BL	(0°-30°)	848.4	4.1	B2/1000		
BM	(30°-60°)	4487.5	21.8	B3/5000		
BH	(60°-80°)	4887.8	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°	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0
2.5°	2044.4	2046.3	2046.3	2046.3	2045.4	2045.4	2043.5	2045.4	2044.4	2041.6	2042.5
5°	2027.4	2029.3	2029.3	2028.3	2031.1	2030.2	2027.4	2029.3	2028.3	2026.4	2027.4
7.5°	2002.7	2005.6	2005.6	2004.6	2007.5	2006.5	2004.6	2005.6	2005.6	2002.7	2002.7
10°	1975.3	1977.2	1977.2	1976.2	1981.0	1981.0	1980.0	1982.9	1983.8	1981.0	1979.1
12.5°	1949.7	1952.6	1952.6	1956.3	1961.1	1963.0	1967.7	1971.5	1975.3	1974.3	1970.5
15°	1934.6	1936.5	1940.2	1945.0	1952.6	1959.2	1966.8	1975.3	1982.9	1984.7	1979.1
17.5°	1925.1	1927.9	1933.6	1940.2	1950.7	1962.0	1973.4	1984.7	1995.2	1999.0	1992.3
20°	1922.3	1924.1	1929.8	1941.2	1955.4	1972.4	1988.5	2001.8	2016.0	2020.7	2016.0
22.5°	1927.9	1931.7	1938.3	1951.6	1970.5	1992.3	2011.3	2029.3	2047.2	2055.8	2049.1
25°	1953.5	1957.3	1965.8	1982.9	2003.7	2026.4	2048.2	2069.0	2085.1	2093.6	2088.9
27.5°	2000.8	2005.6	2016.0	2033.0	2055.8	2080.4	2104.1	2121.1	2134.4	2137.2	2131.5
30°	2071.9	2082.3	2094.6	2113.5	2140.0	2160.9	2184.5	2199.7	2215.8	2215.8	2211.1
32.5°	2182.7	2193.1	2206.3	2224.3	2245.2	2267.9	2288.7	2302.0	2319.0	2320.0	2308.6
35°	2348.4	2353.1	2364.5	2375.8	2394.8	2414.7	2432.6	2441.2	2455.4	2456.3	2445.9
37.5°	2567.1	2568.1	2575.6	2579.4	2596.5	2618.2	2635.3	2641.0	2654.2	2652.3	2641.9
40°	2821.8	2826.6	2829.4	2835.1	2853.1	2873.9	2891.9	2894.7	2908.9	2906.1	2892.8
42.5°	3116.3	3118.2	3134.3	3142.8	3159.9	3170.3	3193.0	3195.9	3212.9	3205.3	3190.2
45°	3446.8	3463.8	3479.0	3496.0	3514.0	3526.3	3544.3	3540.5	3551.9	3540.5	3532.0
47.5°	3794.3	3806.6	3840.7	3867.2	3896.6	3907.0	3932.6	3921.2	3932.6	3916.5	3913.6
50°	4176.9	4198.7	4228.0	4258.3	4289.6	4306.6	4339.7	4325.5	4340.7	4325.5	4317.0
52.5°	4553.7	4559.4	4623.8	4668.3	4711.9	4731.8	4751.7	4745.0	4746.0	4745.0	4736.5
55°	4911.7	4924.9	4989.3	5049.9	5125.7	5181.6	5215.6	5211.9	5203.3	5194.8	5180.6
57.5°	5315.1	5328.3	5402.2	5477.0	5563.2	5642.7	5711.8	5782.9	5810.3	5817.9	5786.6
60°	5860.5	5859.6	5958.0	6048.9	6172.0	6290.4	6441.9	6596.3	6773.3	6855.7	6746.8
62.5°	6415.4	6438.1	6580.2	6741.1	6994.9	7242.1	7521.4	7796.0	8076.3	8304.5	8062.1
65°	6349.1	6436.2	6647.4	7012.0	7480.7	8037.5	8639.7	9277.0	9852.7	10248.5	9804.4
67.5°	5502.6	5626.6	5841.6	6284.7	6870.9	7673.9	8685.2	9945.5	11410.4	12118.7	11240.9
70°	3988.4	4128.6	4353.9	4786.7	5367.2	6130.4	7228.8	8742.0	10681.3	11395.3	10428.5
72.5°	1984.7	2060.5	2199.7	2475.3	2914.6	3533.9	4530.1	5984.5	7700.4	8355.6	7472.2
75°	674.2	709.2	732.9	822.9	962.1	1205.4	1700.7	2616.3	3991.3	4784.8	3934.5
77.5°	389.2	390.1	406.2	422.3	446.0	472.5	538.8	707.4	1223.4	1737.6	1266.0
80°	251.9	250.9	264.2	276.5	292.6	305.9	309.6	327.6	377.8	447.9	400.5
82.5°	130.7	146.8	176.1	192.2	222.5	228.2	220.6	214.0	226.3	234.8	240.5
85°	72.0	62.5	93.7	121.2	134.5	136.4	136.4	128.8	133.5	130.7	142.0
87.5°	33.1	30.3	36.9	59.7	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°	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0
2.5°	2042.5	2043.5	2043.5	2046.3	2047.2	2049.1	2051.0	2052.0
5°	2026.4	2029.3	2027.4	2030.2	2030.2	2032.1	2032.1	2033.0
7.5°	2002.7	2005.6	2005.6	2005.6	2004.6	2007.5	2007.5	2007.5
10°	1978.1	1980.0	1979.1	1977.2	1975.3	1978.1	1977.2	1976.2
12.5°	1970.5	1965.8	1962.0	1960.1	1956.3	1957.3	1954.4	1954.4
15°	1975.3	1966.8	1960.1	1957.3	1953.5	1951.6	1949.7	1950.7
17.5°	1987.6	1977.2	1968.7	1963.9	1959.2	1956.3	1952.6	1953.5
20°	2009.4	1997.1	1984.7	1975.3	1966.8	1962.0	1959.2	1958.2
22.5°	2041.6	2023.6	2005.6	1991.4	1980.0	1973.4	1970.5	1968.7
25°	2078.5	2058.6	2037.8	2021.7	2010.3	2001.8	1996.1	1996.1
27.5°	2124.9	2108.8	2089.9	2070.9	2060.5	2052.0	2048.2	2046.3
30°	2202.5	2187.4	2172.2	2154.2	2141.0	2132.5	2125.8	2120.2
32.5°	2302.0	2289.7	2277.3	2264.1	2251.8	2240.4	2230.0	2225.3
35°	2442.1	2432.6	2424.1	2409.0	2404.2	2397.6	2391.9	2387.2
37.5°	2635.3	2631.5	2631.5	2615.4	2611.6	2608.8	2603.1	2604.0
40°	2889.1	2892.8	2888.1	2882.4	2879.6	2872.0	2872.0	2878.6
42.5°	3189.2	3192.1	3202.5	3193.0	3203.4	3194.0	3188.3	3193.0
45°	3537.7	3548.1	3568.9	3559.5	3566.1	3550.0	3530.1	3531.1
47.5°	3928.8	3938.2	3946.8	3940.1	3941.1	3914.6	3888.1	3881.4
50°	4335.0	4338.8	4343.5	4334.1	4336.0	4306.6	4276.3	4277.2
52.5°	4736.5	4754.5	4773.4	4747.9	4742.2	4709.0	4666.4	4649.4
55°	5195.8	5221.3	5199.5	5155.0	5110.5	5066.0	5010.2	5000.7
57.5°	5762.0	5718.5	5650.3	5566.0	5504.5	5442.0	5385.1	5361.5
60°	6549.9	6386.0	6262.9	6137.9	6059.4	5982.7	5907.8	5896.5
62.5°	7663.4	7380.3	7135.1	6876.5	6665.4	6500.6	6369.0	6332.1
65°	9059.2	8389.7	7809.3	7267.6	6797.0	6441.9	6218.4	6120.0
67.5°	9659.6	8337.6	7342.4	6573.5	5958.0	5528.1	5286.7	5166.4
70°	8488.2	6914.4	5832.1	5062.2	4501.7	4043.4	3824.6	3695.8
72.5°	5839.7	4398.5	3478.0	2838.9	2391.0	2007.5	1856.0	1844.6
75°	2622.0	1736.7	1196.9	922.3	776.5	675.2	643.9	620.2
77.5°	733.9	542.6	483.9	452.6	422.3	387.3	374.0	376.9
80°	357.0	337.1	323.8	304.0	276.5	247.1	233.9	239.6
82.5°	236.7	233.9	242.4	228.2	188.4	160.0	134.5	123.1
85°	143.9	145.8	148.7	149.6	126.9	89.0	60.6	68.2
87.5°	56.8	65.3	71.0	73.9	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)