

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: P191621

Luminaire Tested: **GLEON-AF-03-LED-E1-5MQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191621
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-03-LED-E1-5MQ-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20942 lumens
Efficiency: N/A
Efficacy: 109.6 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

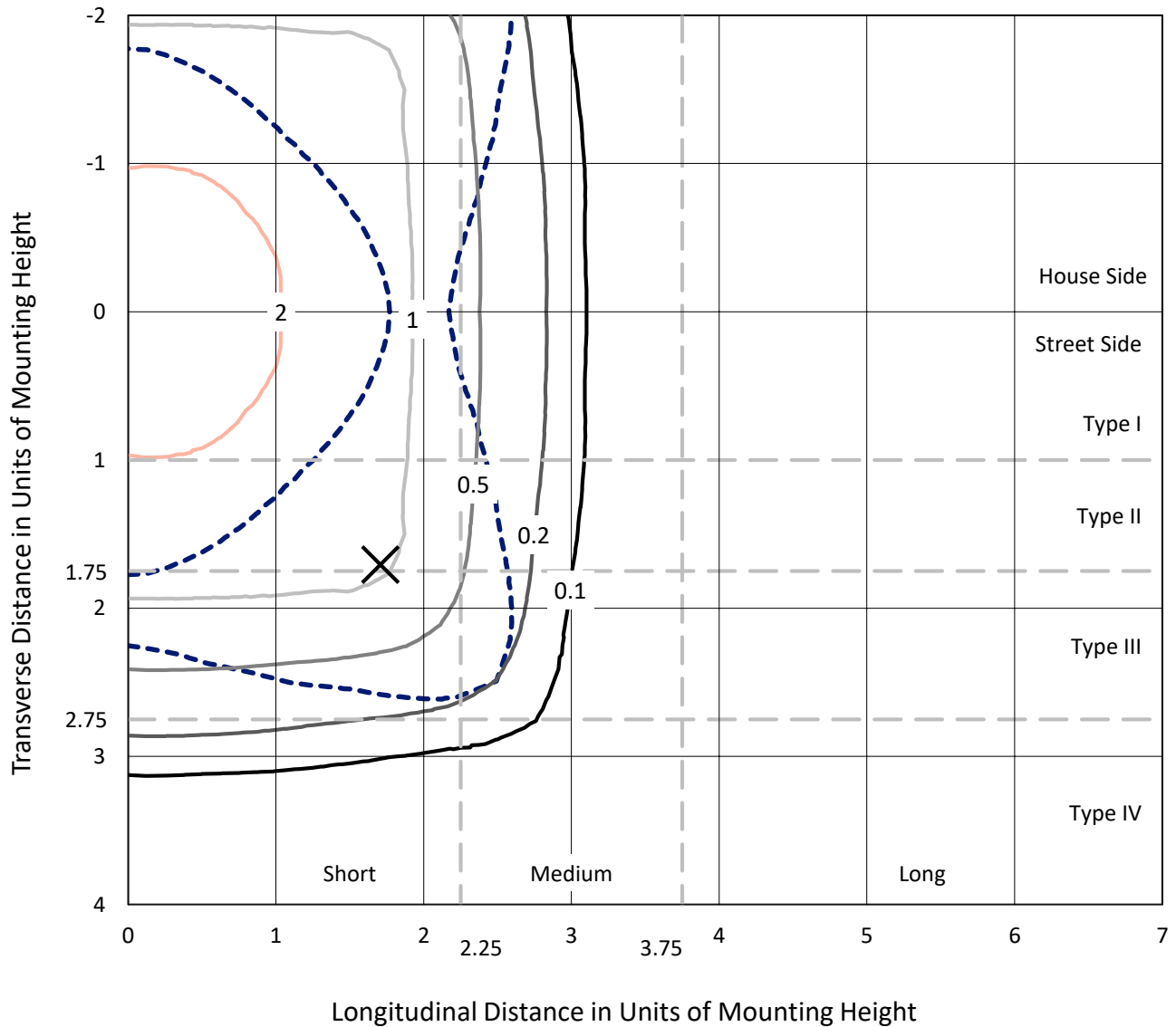
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

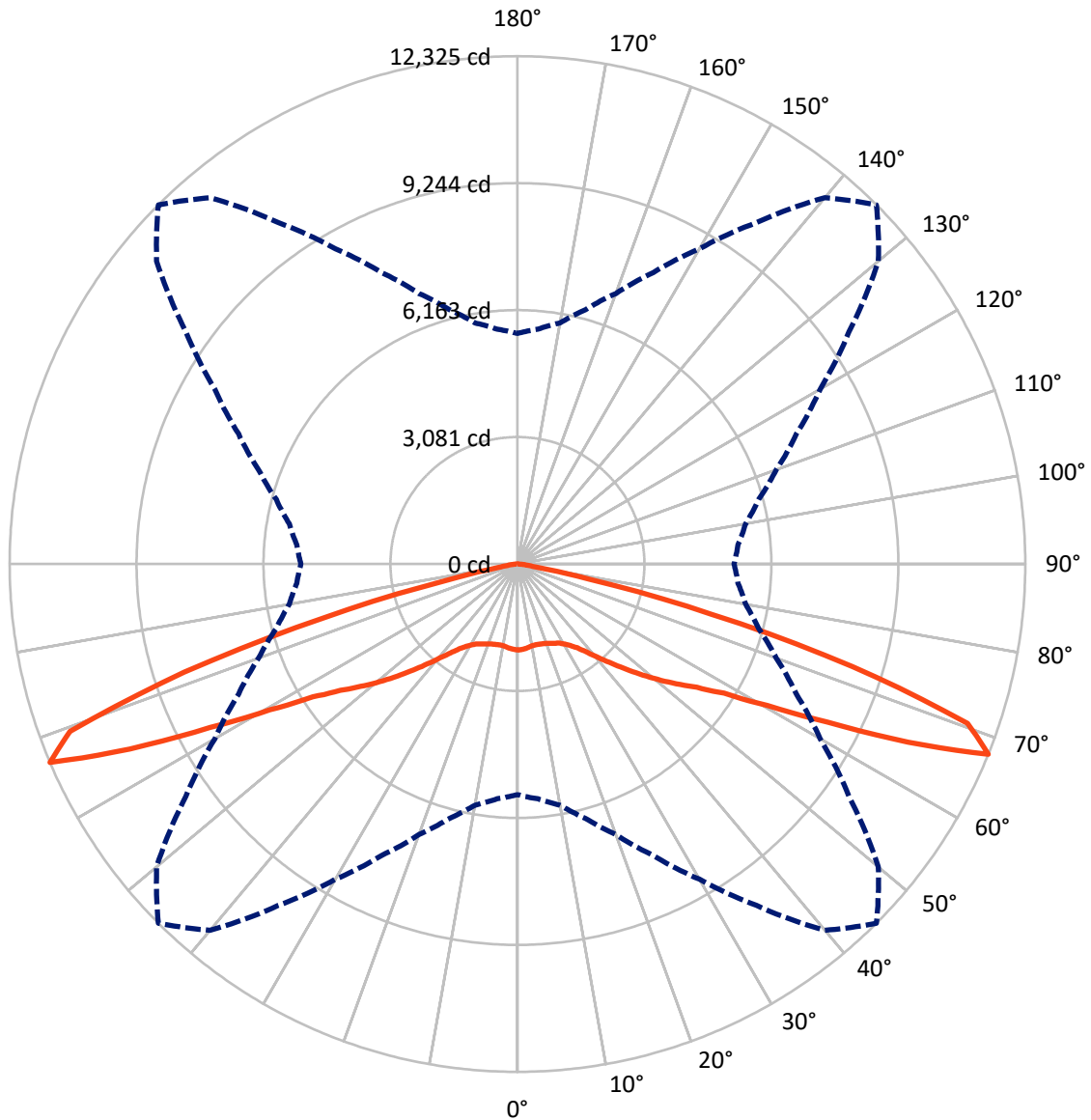
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	10471.0	0.0	10471.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10471.0	0.0	10471.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20942.0	0.0	20942.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.3	0.9
10°-20°	566.8	2.7
20°-30°	963.6	4.6
30°-40°	1575.1	7.5
40°-50°	2811.9	13.4
50°-60°	4740.9	22.6
60°-70°	7357.2	35.1
70°-80°	2585.0	12.3
80°-90°	146.1	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°	20942.0	100.0
0°-180°	20942.0	100.0



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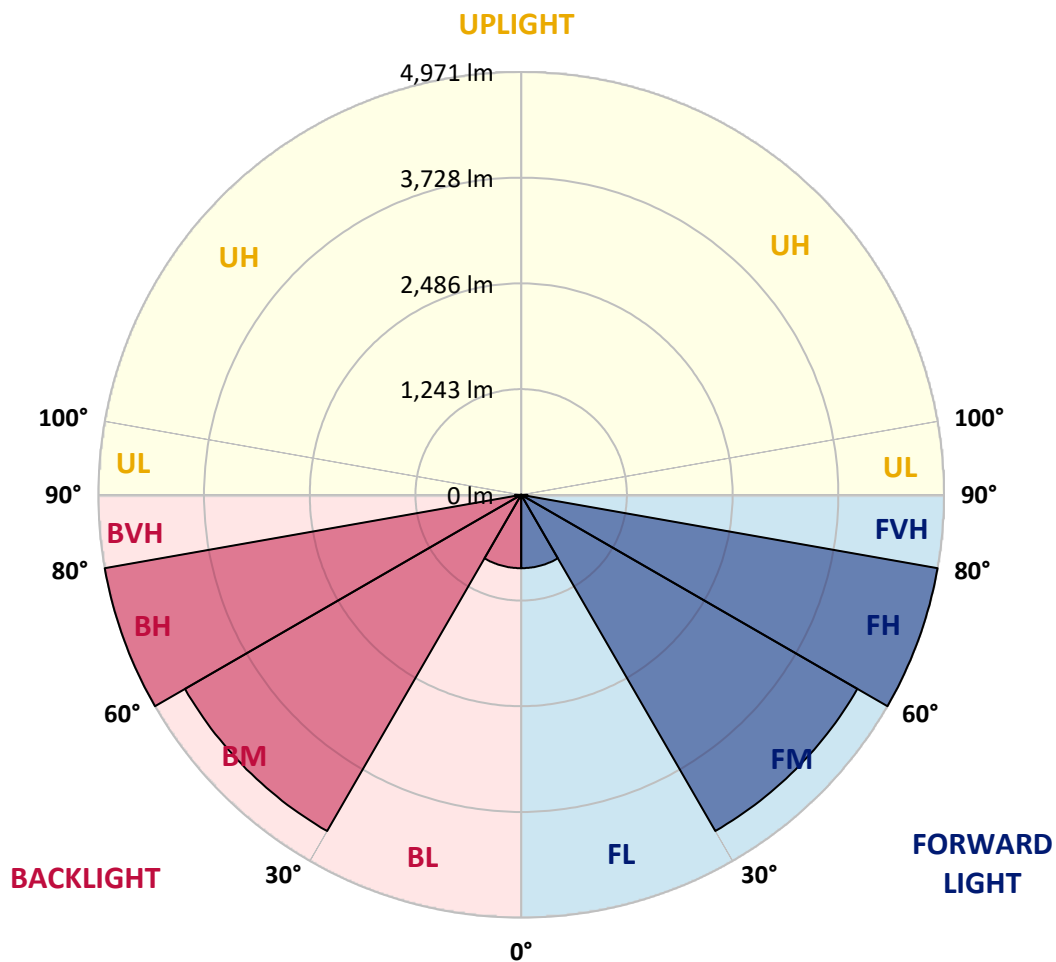
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.9	4.1			
FM (30°-60°)	4564.0	21.8			
FH (60°-80°)	4971.1	23.7			G2/5000
FVH (80°-90°)	73.0	0.3			G1/100
BL (0°-30°)	862.9	4.1	B2/1000		
BM (30°-60°)	4564.0	21.8	B3/5000		
BH (60°-80°)	4971.1	23.7	B4/5000		G2/5000
BVH (80°-90°)	73.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2087.0	2087.0	2087.0	2087.0	2087.0	2087.0	2087.0	2087.0	2087.0	2087.0	2087.0
2.5°	2079.3	2081.2	2081.2	2081.2	2080.2	2080.2	2078.3	2080.2	2079.3	2076.4	2077.3
5°	2061.9	2063.8	2063.8	2062.9	2065.8	2064.8	2061.9	2063.8	2062.9	2061.0	2061.9
7.5°	2036.9	2039.8	2039.8	2038.8	2041.7	2040.7	2038.8	2039.8	2039.8	2036.9	2036.9
10°	2009.0	2010.9	2010.9	2009.9	2014.7	2014.7	2013.8	2016.7	2017.6	2014.7	2012.8
12.5°	1982.9	1985.8	1985.8	1989.7	1994.5	1996.4	2001.2	2005.1	2009.0	2008.0	2004.1
15°	1967.5	1969.5	1973.3	1978.1	1985.8	1992.6	2000.3	2009.0	2016.7	2018.6	2012.8
17.5°	1957.9	1960.8	1966.6	1973.3	1983.9	1995.5	2007.0	2018.6	2029.2	2033.0	2026.3
20°	1955.0	1956.9	1962.7	1974.3	1988.7	2006.1	2022.4	2035.9	2050.4	2055.2	2050.4
22.5°	1960.8	1964.6	1971.4	1984.9	2004.1	2026.3	2045.5	2063.8	2082.1	2090.8	2084.1
25°	1986.8	1990.7	1999.3	2016.7	2037.8	2061.0	2083.1	2104.3	2120.7	2129.3	2124.5
27.5°	2035.0	2039.8	2050.4	2067.7	2090.8	2115.9	2139.9	2157.3	2170.7	2173.6	2167.9
30°	2107.2	2117.8	2130.3	2149.6	2176.5	2197.7	2221.8	2237.2	2253.6	2253.6	2248.8
32.5°	2219.9	2230.5	2243.9	2262.2	2283.4	2306.5	2327.7	2341.2	2358.5	2359.5	2347.9
35°	2388.4	2393.2	2404.8	2416.3	2435.6	2455.8	2474.1	2482.8	2497.2	2498.2	2487.6
37.5°	2610.9	2611.8	2619.5	2623.4	2640.7	2662.9	2680.2	2686.0	2699.5	2697.5	2686.9
40°	2869.9	2874.7	2877.6	2883.4	2901.7	2922.9	2941.2	2944.1	2958.5	2955.6	2942.2
42.5°	3169.4	3171.4	3187.7	3196.4	3213.7	3224.3	3247.5	3250.3	3267.7	3260.0	3244.6
45°	3505.6	3522.9	3538.3	3555.6	3573.9	3586.4	3604.7	3600.9	3612.5	3600.9	3592.2
47.5°	3859.0	3871.5	3906.2	3933.2	3963.0	3973.6	3999.6	3988.0	3999.6	3983.2	3980.3
50°	4248.1	4270.2	4300.1	4330.9	4362.7	4380.0	4413.7	4399.3	4414.7	4399.3	4390.6
52.5°	4631.4	4637.2	4702.6	4747.9	4792.2	4812.4	4832.7	4825.9	4826.9	4825.9	4817.2
55°	4995.4	5008.9	5074.4	5136.0	5213.1	5269.9	5304.6	5300.7	5292.0	5283.4	5268.9
57.5°	5405.7	5419.2	5494.3	5570.4	5658.0	5738.9	5809.2	5881.4	5909.4	5917.1	5885.3
60°	5960.4	5959.4	6059.6	6152.0	6277.2	6397.6	6551.7	6708.7	6888.8	6972.6	6861.8
62.5°	6524.8	6547.9	6692.3	6856.0	7114.2	7365.5	7649.6	7928.9	8214.0	8446.1	8199.5
65°	6457.3	6545.9	6760.7	7131.5	7608.2	8174.5	8787.0	9435.1	10020.7	10423.2	9971.6
67.5°	5596.4	5722.5	5941.1	6391.9	6988.0	7804.7	8833.2	10115.1	11604.9	12325.3	11432.5
70°	4056.4	4199.0	4428.2	4868.3	5458.6	6234.9	7352.0	8891.0	10863.4	11589.5	10606.2
72.5°	2018.6	2095.6	2237.2	2517.4	2964.3	3594.2	4607.3	6086.6	7831.6	8498.1	7599.5
75°	685.7	721.3	745.4	836.9	978.5	1226.0	1729.7	2660.9	4059.3	4866.4	4001.5
77.5°	395.8	396.8	413.2	429.5	453.6	480.6	548.0	719.4	1244.3	1767.2	1287.6
80°	256.2	255.2	268.7	281.2	297.6	311.1	314.9	333.2	384.3	455.5	407.4
82.5°	132.9	149.3	179.1	195.5	226.3	232.1	224.4	217.7	230.2	238.8	244.6
85°	73.2	63.6	95.3	123.3	136.8	138.7	138.7	131.0	135.8	132.9	144.5
87.5°	33.7	30.8	37.6	60.7	64.5	54.9	57.8	51.0	36.6	35.6	40.4
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°	2087.0	2087.0	2087.0	2087.0	2087.0	2087.0	2087.0	2087.0
2.5°	2077.3	2078.3	2078.3	2081.2	2082.1	2084.1	2086.0	2087.0
5°	2061.0	2063.8	2061.9	2064.8	2064.8	2066.7	2066.7	2067.7
7.5°	2036.9	2039.8	2039.8	2039.8	2038.8	2041.7	2041.7	2041.7
10°	2011.8	2013.8	2012.8	2010.9	2009.0	2011.8	2010.9	2009.9
12.5°	2004.1	1999.3	1995.5	1993.5	1989.7	1990.7	1987.8	1987.8
15°	2009.0	2000.3	1993.5	1990.7	1986.8	1984.9	1982.9	1983.9
17.5°	2021.5	2010.9	2002.2	1997.4	1992.6	1989.7	1985.8	1986.8
20°	2043.6	2031.1	2018.6	2009.0	2000.3	1995.5	1992.6	1991.6
22.5°	2076.4	2058.1	2039.8	2025.3	2013.8	2007.0	2004.1	2002.2
25°	2113.9	2093.7	2072.5	2056.1	2044.6	2035.9	2030.1	2030.1
27.5°	2161.1	2144.7	2125.5	2106.2	2095.6	2087.0	2083.1	2081.2
30°	2240.1	2224.7	2209.3	2191.0	2177.5	2168.8	2162.1	2156.3
32.5°	2341.2	2328.7	2316.2	2302.7	2290.2	2278.6	2268.0	2263.2
35°	2483.7	2474.1	2465.4	2450.0	2445.2	2438.5	2432.7	2427.9
37.5°	2680.2	2676.4	2676.4	2660.0	2656.1	2653.2	2647.5	2648.4
40°	2938.3	2942.2	2937.3	2931.6	2928.7	2921.0	2921.0	2927.7
42.5°	3243.6	3246.5	3257.1	3247.5	3258.0	3248.4	3242.6	3247.5
45°	3598.0	3608.6	3629.8	3620.2	3626.9	3610.5	3590.3	3591.3
47.5°	3995.8	4005.4	4014.0	4007.3	4008.3	3981.3	3954.3	3947.6
50°	4408.9	4412.8	4417.6	4407.9	4409.9	4380.0	4349.2	4350.2
52.5°	4817.2	4835.5	4854.8	4828.8	4823.0	4789.3	4746.0	4728.6
55°	5284.3	5310.3	5288.2	5242.9	5197.7	5152.4	5095.6	5085.9
57.5°	5860.2	5815.9	5746.6	5660.9	5598.3	5534.7	5476.9	5452.9
60°	6661.5	6494.9	6369.7	6242.6	6162.6	6084.6	6008.6	5997.0
62.5°	7794.1	7506.1	7256.7	6993.8	6779.0	6611.4	6477.6	6440.0
65°	9213.6	8532.7	7942.4	7391.5	6912.9	6551.7	6324.4	6224.3
67.5°	9824.2	8479.8	7467.6	6685.6	6059.6	5622.4	5376.8	5254.5
70°	8632.9	7032.3	5931.5	5148.5	4578.4	4112.3	3889.8	3758.8
72.5°	5939.2	4473.4	3537.3	2887.3	2431.7	2041.7	1887.6	1876.0
75°	2666.7	1766.3	1217.3	938.0	789.7	686.7	654.9	630.8
77.5°	746.4	551.8	492.1	460.3	429.5	393.9	380.4	383.3
80°	363.1	342.9	329.4	309.1	281.2	251.4	237.9	243.7
82.5°	240.8	237.9	246.5	232.1	191.6	162.8	136.8	125.2
85°	146.4	148.3	151.2	152.2	129.1	90.5	61.6	69.3
87.5°	57.8	66.5	72.2	75.1	70.3	43.3	34.7	35.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)