

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: STREETWORKS

Report Number: P192533

Luminaire Tested: **GAN-AF-05-LED-U-5MQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192533
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: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-5MQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 19914.7 lumens
Efficiency: N/A
Efficacy: 122.9 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: 28.75 FT

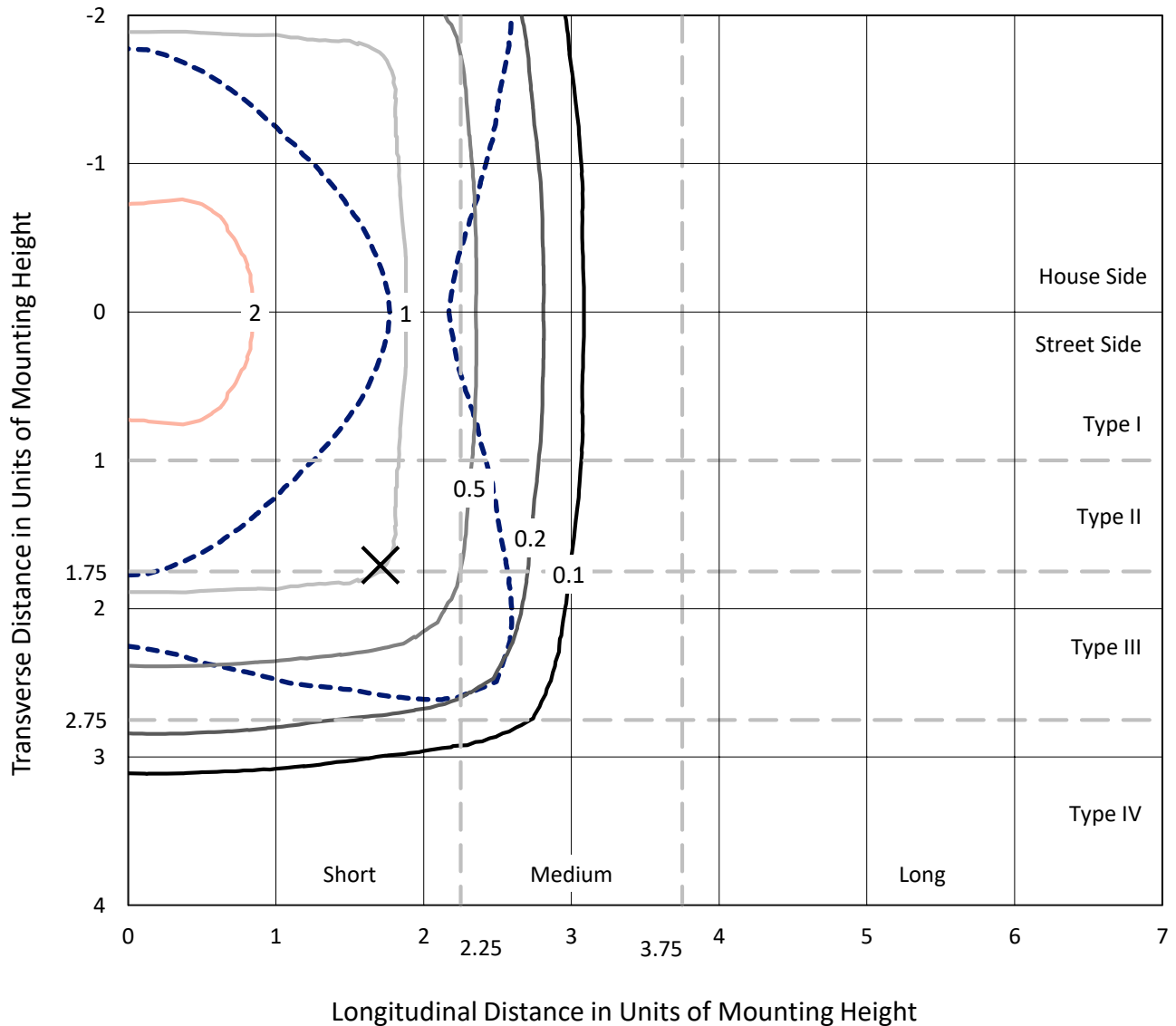


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

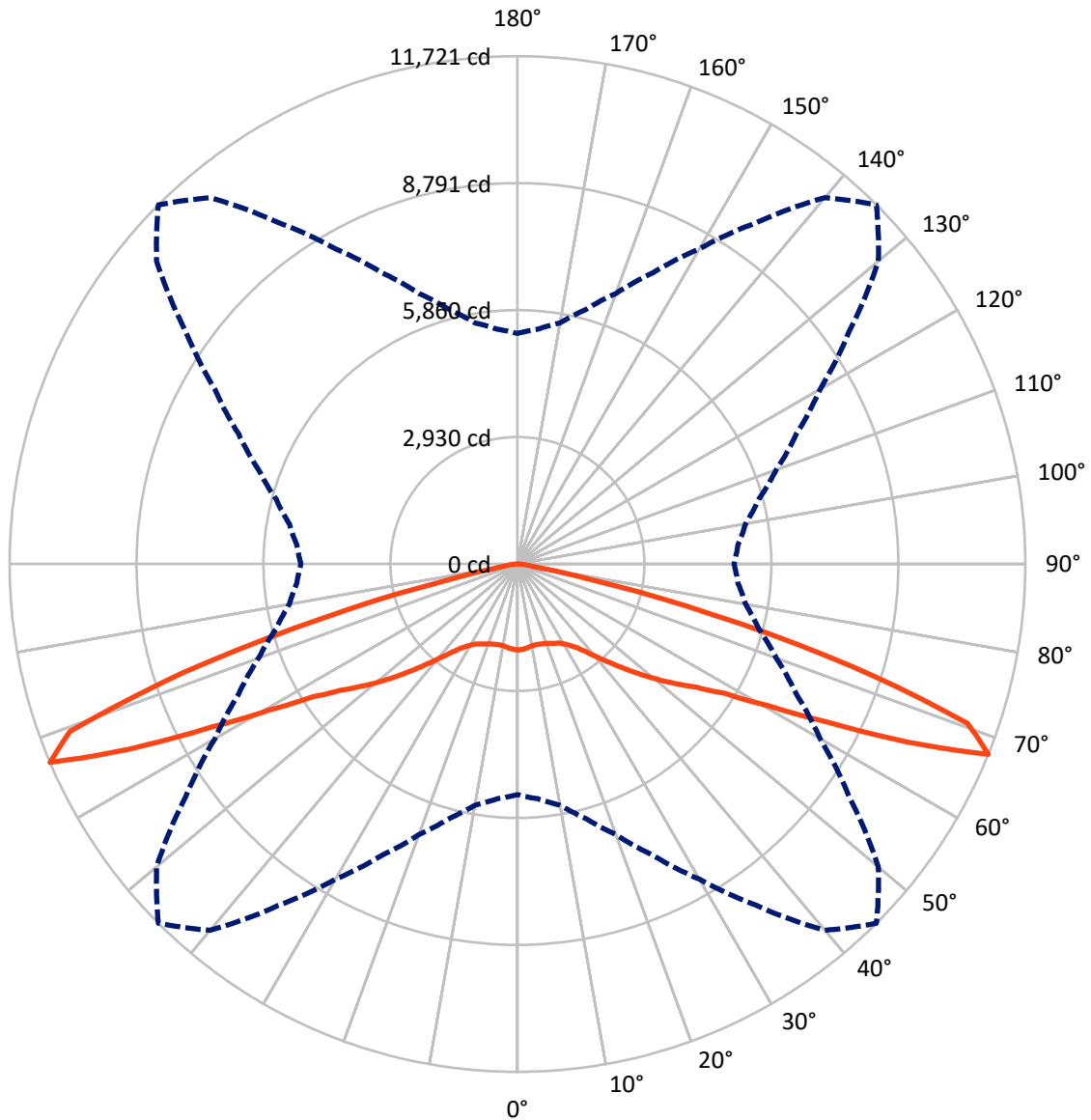


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Full Cutoff

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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	9957.3	0.0	9957.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9957.3	0.0	9957.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	19914.7	0.0	19914.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.7	0.9
10°-20°	539.0	2.7
20°-30°	916.3	4.6
30°-40°	1497.9	7.5
40°-50°	2674.0	13.4
50°-60°	4508.4	22.6
60°-70°	6996.3	35.1
70°-80°	2458.2	12.3
80°-90°	138.9	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°	19914.7	100.0
0°-180°	19914.7	100.0

Coefficient of Utilization



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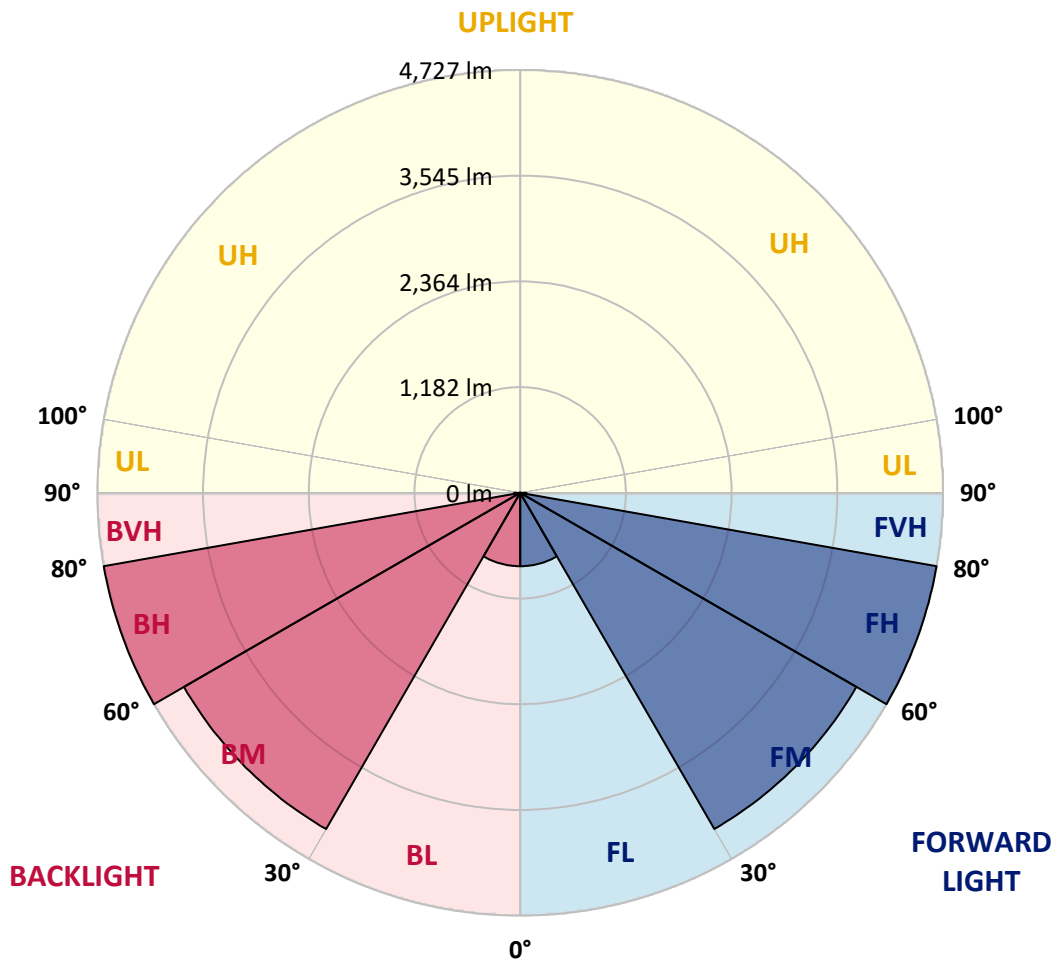
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	820.5	4.1			
FM (30°-60°)	4340.1	21.8			
FH (60°-80°)	4727.3	23.7			G2/5000
FVH (80°-90°)	69.5	0.3			G1/100
BL (0°-30°)	820.5	4.1	B2/1000		
BM (30°-60°)	4340.1	21.8	B3/5000		
BH (60°-80°)	4727.3	23.7	B4/5000		G2/5000
BVH (80°-90°)	69.5	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°	1984.5	1984.5	1984.5	1984.5	1984.5	1984.5	1984.5	1984.5	1984.5	1984.5	1984.5
2.5°	1977.3	1979.1	1979.1	1979.1	1978.1	1978.1	1976.4	1978.1	1977.3	1974.6	1975.4
5°	1960.7	1962.7	1962.7	1961.6	1964.5	1963.5	1960.7	1962.7	1961.6	1959.9	1960.7
7.5°	1936.9	1939.7	1939.7	1938.8	1941.5	1940.7	1938.8	1939.7	1939.7	1936.9	1936.9
10°	1910.4	1912.2	1912.2	1911.3	1915.9	1915.9	1915.0	1917.7	1918.6	1915.9	1914.1
12.5°	1885.7	1888.4	1888.4	1892.1	1896.6	1898.5	1903.1	1906.7	1910.4	1909.6	1905.8
15°	1871.1	1872.8	1876.5	1881.1	1888.4	1894.9	1902.2	1910.4	1917.7	1919.5	1914.1
17.5°	1861.9	1864.6	1870.1	1876.5	1886.6	1897.7	1908.5	1919.5	1929.6	1933.4	1926.9
20°	1859.1	1860.9	1866.4	1877.4	1891.2	1907.6	1923.2	1936.1	1949.7	1954.3	1949.7
22.5°	1864.6	1868.3	1874.7	1887.5	1905.8	1926.9	1945.3	1962.7	1980.0	1988.3	1981.9
25°	1889.3	1893.0	1901.2	1917.7	1937.8	1959.9	1980.9	2001.1	2016.6	2024.9	2020.3
27.5°	1935.1	1939.7	1949.7	1966.2	1988.3	2012.0	2035.0	2051.5	2064.2	2066.9	2061.5
30°	2003.9	2013.8	2025.7	2044.1	2069.8	2089.9	2112.7	2127.5	2143.0	2143.0	2138.4
32.5°	2111.0	2121.0	2133.9	2151.4	2171.4	2193.4	2213.5	2226.3	2242.9	2243.7	2232.8
35°	2271.3	2275.8	2286.8	2297.8	2316.1	2335.3	2352.8	2361.0	2374.8	2375.7	2365.6
37.5°	2482.8	2483.7	2491.0	2494.7	2511.3	2532.2	2548.7	2554.3	2567.0	2565.2	2555.1
40°	2729.2	2733.7	2736.5	2742.0	2759.4	2779.5	2796.9	2799.7	2813.4	2810.7	2797.8
42.5°	3013.9	3015.8	3031.4	3039.6	3056.1	3066.2	3088.1	3091.0	3107.4	3100.0	3085.4
45°	3333.6	3350.1	3364.7	3381.2	3398.6	3410.5	3427.9	3424.3	3435.2	3424.3	3416.0
47.5°	3669.7	3681.6	3714.6	3740.2	3768.6	3778.6	3803.5	3792.4	3803.5	3787.8	3785.1
50°	4039.7	4060.7	4089.1	4118.4	4148.7	4165.2	4197.2	4183.4	4198.1	4183.4	4175.3
52.5°	4404.1	4409.7	4472.0	4515.0	4557.1	4576.4	4595.6	4589.2	4590.1	4589.2	4580.9
55°	4750.4	4763.1	4825.4	4884.1	4957.3	5011.4	5044.4	5040.6	5032.5	5024.2	5010.4
57.5°	5140.5	5153.3	5224.8	5297.1	5380.5	5457.4	5524.2	5592.9	5619.4	5626.9	5596.6
60°	5668.1	5667.1	5762.4	5850.3	5969.3	6083.8	6230.3	6379.6	6550.8	6630.5	6525.2
62.5°	6204.8	6226.6	6364.1	6519.7	6765.2	7004.2	7274.4	7540.0	7811.1	8031.7	7797.3
65°	6140.6	6224.8	6429.1	6781.6	7234.9	7773.5	8355.9	8972.3	9529.1	9911.9	9482.4
67.5°	5321.8	5441.7	5649.7	6078.3	6645.1	7421.8	8399.9	9618.8	11035.6	11720.7	10871.8
70°	3857.4	3993.0	4211.0	4629.5	5190.9	5929.1	6991.4	8454.8	10330.5	11021.0	10085.9
72.5°	1919.5	1992.8	2127.5	2394.0	2818.9	3417.8	4381.3	5788.0	7447.4	8081.3	7226.7
75°	652.1	685.9	708.9	795.9	930.5	1165.8	1644.8	2530.5	3860.1	4627.6	3805.3
77.5°	376.4	377.3	392.9	408.4	431.3	457.0	521.0	684.1	1183.3	1680.5	1224.5
80°	243.6	242.7	255.5	267.4	283.0	295.8	299.5	316.9	365.4	433.2	387.5
82.5°	126.4	141.9	170.3	186.0	215.2	220.7	213.4	206.9	218.8	227.2	232.6
85°	69.6	60.4	90.6	117.2	130.0	131.8	131.8	124.5	129.2	126.4	137.3
87.5°	32.0	29.3	35.7	57.7	61.4	52.2	54.9	48.5	34.9	33.9	38.5
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°	1984.5	1984.5	1984.5	1984.5	1984.5	1984.5	1984.5	1984.5
2.5°	1975.4	1976.4	1976.4	1979.1	1980.0	1981.9	1983.7	1984.5
5°	1959.9	1962.7	1960.7	1963.5	1963.5	1965.3	1965.3	1966.2
7.5°	1936.9	1939.7	1939.7	1939.7	1938.8	1941.5	1941.5	1941.5
10°	1913.1	1915.0	1914.1	1912.2	1910.4	1913.1	1912.2	1911.3
12.5°	1905.8	1901.2	1897.7	1895.7	1892.1	1893.0	1890.3	1890.3
15°	1910.4	1902.2	1895.7	1893.0	1889.3	1887.5	1885.7	1886.6
17.5°	1922.3	1912.2	1904.0	1899.4	1894.9	1892.1	1888.4	1889.3
20°	1943.4	1931.4	1919.5	1910.4	1902.2	1897.7	1894.9	1893.9
22.5°	1974.6	1957.2	1939.7	1926.0	1915.0	1908.5	1905.8	1904.0
25°	2010.3	1991.0	1970.8	1955.3	1944.3	1936.1	1930.5	1930.5
27.5°	2055.0	2039.6	2021.2	2002.9	1992.8	1984.5	1980.9	1979.1
30°	2130.2	2115.6	2100.8	2083.5	2070.7	2062.4	2056.0	2050.5
32.5°	2226.3	2214.4	2202.5	2189.8	2177.9	2166.8	2156.8	2152.2
35°	2361.8	2352.8	2344.4	2329.9	2325.2	2318.8	2313.3	2308.7
37.5°	2548.7	2545.0	2545.0	2529.5	2525.8	2523.2	2517.6	2518.5
40°	2794.2	2797.8	2793.2	2787.8	2785.0	2777.7	2777.7	2784.2
42.5°	3084.5	3087.2	3097.3	3088.1	3098.3	3089.1	3083.6	3088.1
45°	3421.5	3431.7	3451.7	3442.5	3449.0	3433.4	3414.2	3415.1
47.5°	3799.7	3808.9	3817.2	3810.8	3811.6	3786.1	3760.3	3753.9
50°	4192.6	4196.3	4200.9	4191.7	4193.6	4165.2	4135.8	4136.8
52.5°	4580.9	4598.2	4616.6	4591.9	4586.3	4554.4	4513.2	4496.7
55°	5025.1	5049.9	5028.7	4985.7	4942.7	4899.6	4845.6	4836.5
57.5°	5572.8	5530.6	5464.7	5383.2	5323.6	5263.2	5208.3	5185.3
60°	6334.8	6176.3	6057.3	5936.4	5860.3	5786.2	5713.8	5702.8
62.5°	7411.7	7137.9	6900.7	6650.7	6446.4	6287.1	6159.8	6124.1
65°	8761.6	8114.1	7552.8	7028.8	6573.8	6230.3	6014.1	5918.9
67.5°	9342.3	8063.8	7101.3	6357.6	5762.4	5346.6	5113.0	4996.8
70°	8209.4	6687.3	5640.5	4896.0	4353.8	3910.5	3699.0	3574.4
72.5°	5647.8	4254.0	3363.8	2745.5	2312.5	1941.5	1795.0	1783.9
75°	2535.9	1679.7	1157.6	892.0	750.9	653.0	622.8	599.9
77.5°	709.7	524.8	467.9	437.8	408.4	374.5	361.7	364.5
80°	345.3	326.0	313.2	294.0	267.4	239.1	226.1	231.7
82.5°	229.0	226.1	234.5	220.7	182.3	154.8	130.0	119.1
85°	139.2	141.1	143.7	144.7	122.7	86.1	58.6	66.0
87.5°	54.9	63.2	68.8	71.4	66.8	41.2	33.0	33.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)