

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: P299720

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299720
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: GAA-AF-05-LED-U-5MQ-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19846.8 lumens
Efficiency: N/A
Efficacy: 122.5 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

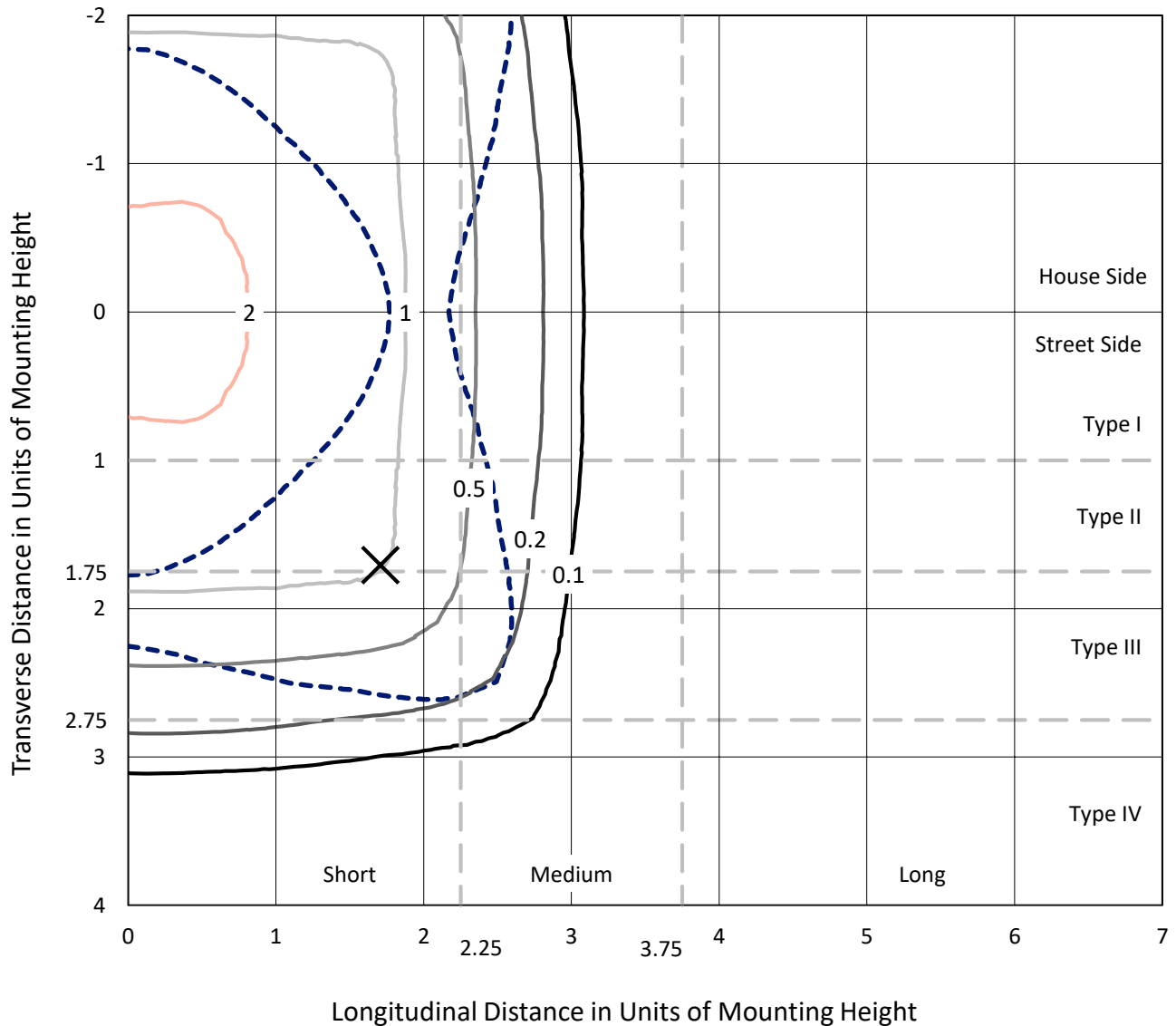


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

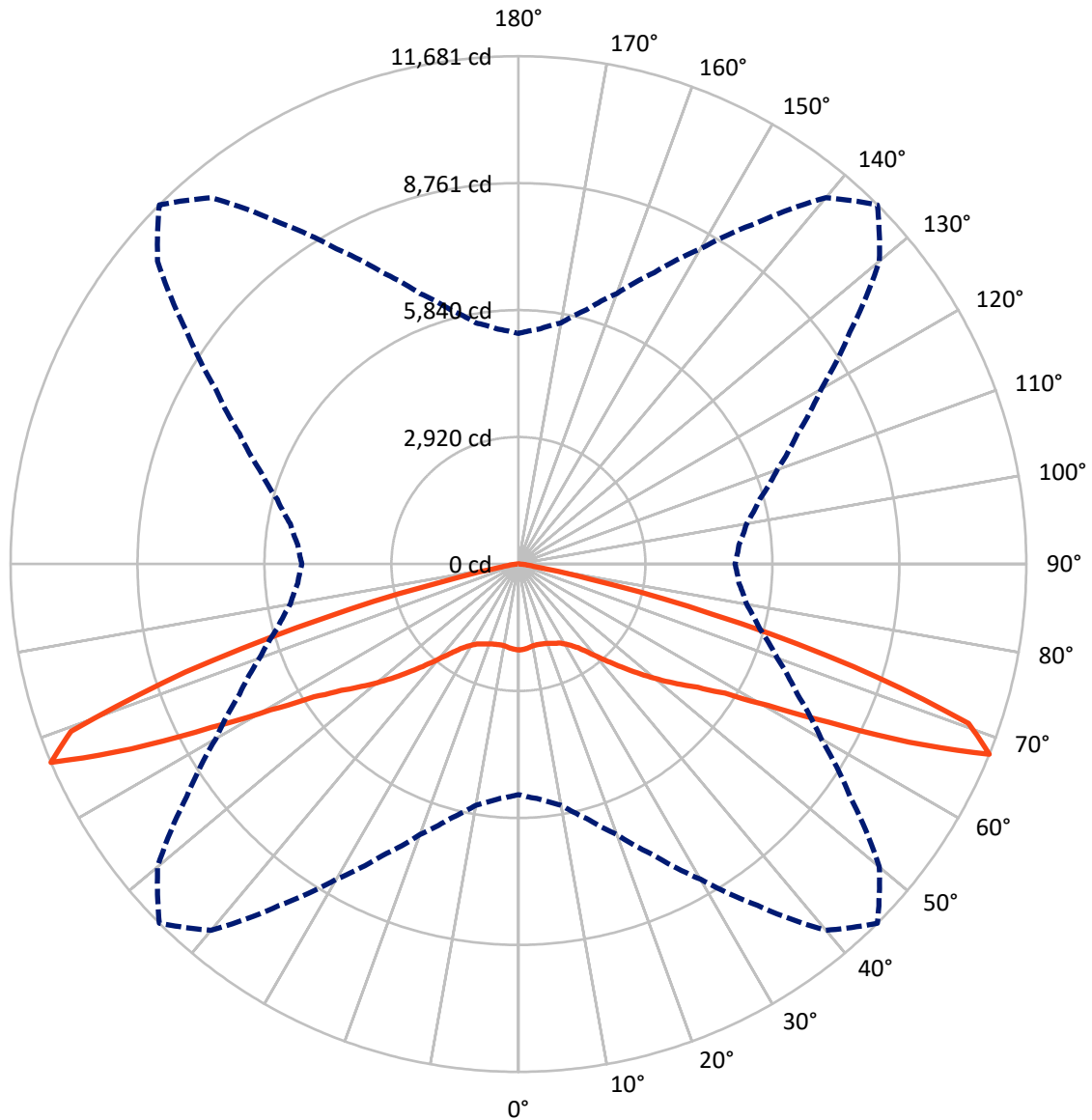


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Full Cutoff

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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	9923.4	0.0	9923.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9923.4	0.0	9923.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	19846.8	0.0	19846.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.1	0.9
10°-20°	537.2	2.7
20°-30°	913.2	4.6
30°-40°	1492.8	7.5
40°-50°	2664.8	13.4
50°-60°	4493.0	22.6
60°-70°	6972.5	35.1
70°-80°	2449.8	12.3
80°-90°	138.5	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°	19846.8	100.0
0°-180°	19846.8	100.0



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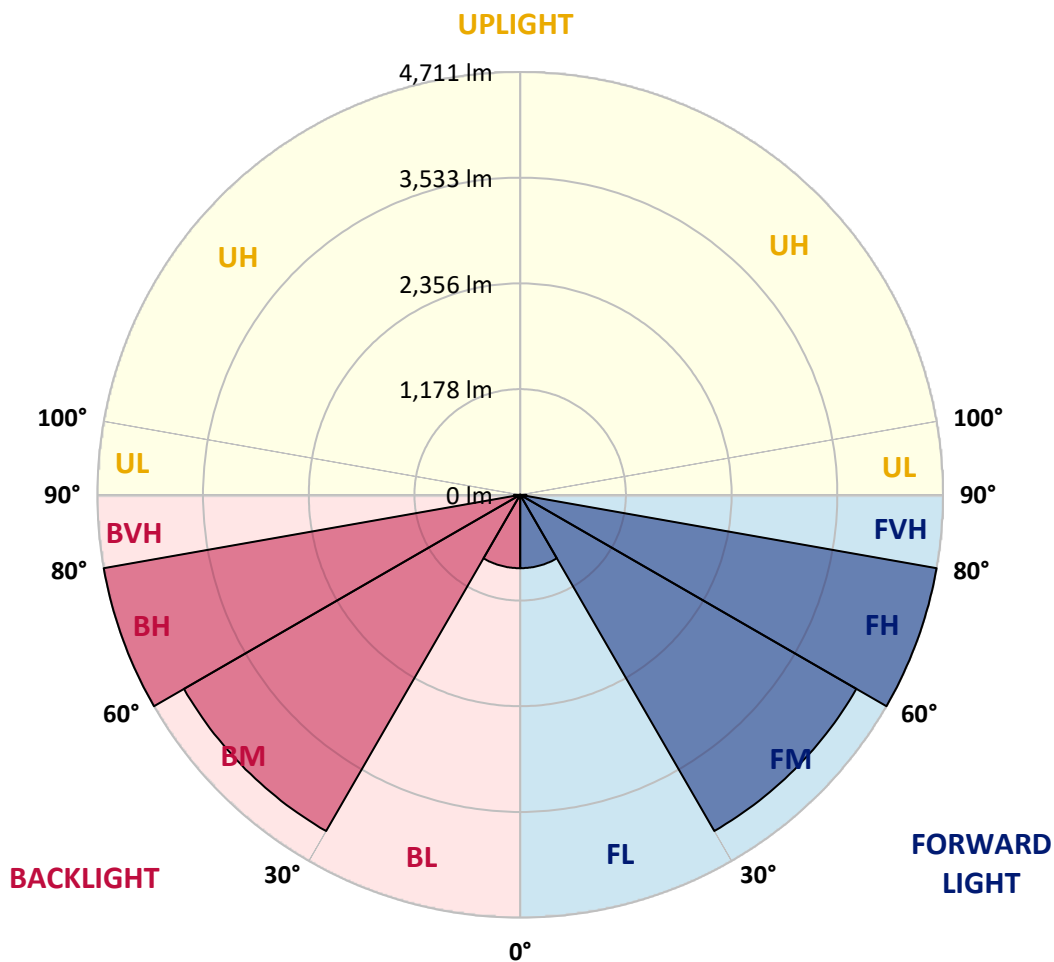
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	817.7	4.1			
FM (30°-60°)	4325.3	21.8			
FH (60°-80°)	4711.1	23.7			G2/5000
FVH (80°-90°)	69.2	0.3			G1/100
BL (0°-30°)	817.7	4.1	B2/1000		
BM (30°-60°)	4325.3	21.8	B3/5000		
BH (60°-80°)	4711.1	23.7	B4/5000		G2/5000
BVH (80°-90°)	69.2	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°	1977.8	1977.8	1977.8	1977.8	1977.8	1977.8	1977.8	1977.8	1977.8	1977.8	1977.8
2.5°	1970.5	1972.3	1972.3	1972.3	1971.4	1971.4	1969.6	1971.4	1970.5	1967.8	1968.7
5°	1954.1	1955.9	1955.9	1955.0	1957.7	1956.8	1954.1	1955.9	1955.0	1953.2	1954.1
7.5°	1930.4	1933.1	1933.1	1932.2	1934.9	1934.0	1932.2	1933.1	1933.1	1930.4	1930.4
10°	1903.9	1905.7	1905.7	1904.8	1909.4	1909.4	1908.5	1911.2	1912.1	1909.4	1907.5
12.5°	1879.2	1882.0	1882.0	1885.6	1890.2	1892.0	1896.6	1900.2	1903.9	1903.0	1899.3
15°	1864.6	1866.5	1870.1	1874.7	1882.0	1888.4	1895.7	1903.9	1911.2	1913.0	1907.5
17.5°	1855.5	1858.3	1863.7	1870.1	1880.2	1891.1	1902.1	1913.0	1923.1	1926.7	1920.3
20°	1852.8	1854.6	1860.1	1871.0	1884.7	1901.2	1916.7	1929.4	1943.1	1947.7	1943.1
22.5°	1858.3	1861.9	1868.3	1881.1	1899.3	1920.3	1938.6	1955.9	1973.3	1981.5	1975.1
25°	1882.9	1886.5	1894.8	1911.2	1931.3	1953.2	1974.2	1994.2	2009.8	2018.0	2013.4
27.5°	1928.5	1933.1	1943.1	1959.6	1981.5	2005.2	2028.0	2044.4	2057.2	2060.0	2054.5
30°	1997.0	2007.0	2018.9	2037.1	2062.7	2082.8	2105.6	2120.2	2135.7	2135.7	2131.2
32.5°	2103.8	2113.8	2126.6	2143.9	2164.0	2185.9	2206.0	2218.8	2235.2	2236.1	2225.2
35°	2263.5	2268.1	2279.0	2290.0	2308.2	2327.4	2344.7	2352.9	2366.6	2367.5	2357.5
37.5°	2474.3	2475.2	2482.5	2486.2	2502.6	2523.6	2540.0	2545.5	2558.3	2556.5	2546.4
40°	2719.8	2724.4	2727.1	2732.6	2750.0	2770.0	2787.4	2790.1	2803.8	2801.1	2788.3
42.5°	3003.7	3005.5	3021.0	3029.2	3045.7	3055.7	3077.6	3080.4	3096.8	3089.5	3074.9
45°	3322.2	3338.7	3353.3	3369.7	3387.0	3398.9	3416.2	3412.6	3423.5	3412.6	3404.4
47.5°	3657.2	3669.0	3701.9	3727.5	3755.8	3765.8	3790.4	3779.5	3790.4	3774.9	3772.2
50°	4025.9	4046.9	4075.2	4104.4	4134.5	4151.0	4182.9	4169.2	4183.8	4169.2	4161.0
52.5°	4389.2	4394.6	4456.7	4499.6	4541.6	4560.8	4579.9	4573.5	4574.4	4573.5	4565.3
55°	4734.2	4746.9	4809.0	4867.4	4940.4	4994.3	5027.1	5023.5	5015.3	5007.1	4993.4
57.5°	5123.0	5135.8	5206.9	5279.0	5362.1	5438.8	5505.4	5573.8	5600.3	5607.6	5577.5
60°	5648.7	5647.8	5742.7	5830.3	5949.0	6063.1	6209.1	6357.9	6528.5	6607.9	6503.0
62.5°	6183.5	6205.4	6342.3	6497.5	6742.1	6980.3	7249.6	7514.2	7784.4	8004.4	7770.7
65°	6119.6	6203.6	6407.1	6758.5	7210.3	7747.0	8327.5	8941.7	9496.6	9878.1	9450.1
67.5°	5303.7	5423.3	5630.4	6057.6	6622.5	7396.5	8371.3	9586.1	10998.0	11680.7	10834.6
70°	3844.3	3979.4	4196.6	4613.7	5173.2	5908.8	6967.5	8426.0	10295.2	10983.4	10051.5
72.5°	1913.0	1986.0	2120.2	2385.8	2809.3	3406.2	4366.3	5768.3	7422.1	8053.7	7202.1
75°	649.8	683.6	706.4	793.1	927.3	1161.9	1639.2	2521.8	3847.0	4611.9	3792.3
77.5°	375.1	376.0	391.5	407.1	429.9	455.4	519.3	681.8	1179.2	1674.8	1220.3
80°	242.8	241.9	254.6	266.5	282.0	294.8	298.5	315.8	364.2	431.7	386.1
82.5°	126.0	141.5	169.8	185.3	214.5	220.0	212.7	206.3	218.1	226.3	231.8
85°	69.4	60.2	90.4	116.8	129.6	131.4	131.4	124.1	128.7	126.0	136.9
87.5°	31.9	29.2	35.6	57.5	61.2	52.0	54.8	48.4	34.7	33.8	38.3
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°	1977.8	1977.8	1977.8	1977.8	1977.8	1977.8	1977.8	1977.8
2.5°	1968.7	1969.6	1969.6	1972.3	1973.3	1975.1	1976.9	1977.8
5°	1953.2	1955.9	1954.1	1956.8	1956.8	1958.7	1958.7	1959.6
7.5°	1930.4	1933.1	1933.1	1933.1	1932.2	1934.9	1934.9	1934.9
10°	1906.6	1908.5	1907.5	1905.7	1903.9	1906.6	1905.7	1904.8
12.5°	1899.3	1894.8	1891.1	1889.3	1885.6	1886.5	1883.8	1883.8
15°	1903.9	1895.7	1889.3	1886.5	1882.9	1881.1	1879.2	1880.2
17.5°	1915.8	1905.7	1897.5	1892.9	1888.4	1885.6	1882.0	1882.9
20°	1936.7	1924.9	1913.0	1903.9	1895.7	1891.1	1888.4	1887.5
22.5°	1967.8	1950.4	1933.1	1919.4	1908.5	1902.1	1899.3	1897.5
25°	2003.4	1984.2	1964.1	1948.6	1937.7	1929.4	1924.0	1924.0
27.5°	2048.1	2032.6	2014.3	1996.1	1986.0	1977.8	1974.2	1972.3
30°	2122.9	2108.3	2093.7	2076.4	2063.6	2055.4	2049.0	2043.5
32.5°	2218.8	2206.9	2195.0	2182.3	2170.4	2159.4	2149.4	2144.8
35°	2353.8	2344.7	2336.5	2321.9	2317.3	2311.0	2305.5	2300.9
37.5°	2540.0	2536.4	2536.4	2520.9	2517.2	2514.5	2509.0	2509.9
40°	2784.6	2788.3	2783.7	2778.3	2775.5	2768.2	2768.2	2774.6
42.5°	3074.0	3076.7	3086.7	3077.6	3087.7	3078.5	3073.1	3077.6
45°	3409.8	3419.9	3440.0	3430.8	3437.2	3421.7	3402.5	3403.5
47.5°	3786.8	3795.9	3804.1	3797.7	3798.7	3773.1	3747.5	3741.2
50°	4178.3	4182.0	4186.5	4177.4	4179.2	4151.0	4121.7	4122.7
52.5°	4565.3	4582.7	4600.9	4576.3	4570.8	4538.8	4497.8	4481.3
55°	5008.0	5032.6	5011.6	4968.7	4925.8	4882.9	4829.1	4820.0
57.5°	5553.8	5511.8	5446.1	5364.8	5305.5	5245.3	5190.5	5167.7
60°	6313.1	6155.2	6036.6	5916.1	5840.4	5766.4	5694.3	5683.4
62.5°	7386.5	7113.6	6877.2	6628.0	6424.5	6265.7	6138.8	6103.2
65°	8731.8	8086.5	7527.0	7005.0	6551.3	6209.1	5993.7	5898.8
67.5°	9310.4	8036.3	7077.1	6336.0	5742.7	5328.3	5095.6	4979.7
70°	8181.4	6664.5	5621.3	4879.3	4339.0	3897.2	3686.4	3562.3
72.5°	5628.6	4239.5	3352.3	2736.3	2304.6	1934.9	1788.9	1777.9
75°	2527.3	1673.9	1153.7	889.0	748.4	650.8	620.6	597.8
77.5°	707.3	523.0	466.4	436.3	407.1	373.3	360.5	363.3
80°	344.1	324.9	312.1	293.0	266.5	238.2	225.4	230.9
82.5°	228.2	225.4	233.7	220.0	181.6	154.2	129.6	118.7
85°	138.7	140.6	143.3	144.2	122.3	85.8	58.4	65.7
87.5°	54.8	63.0	68.5	71.2	66.6	41.1	32.9	33.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)