

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: P193443

Luminaire Tested: **GAN-AF-05-LED-U-5WQ-8030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-5WQ-8030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28050 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 320
Input Voltage (V): NR
Input Current (A_{in}): 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

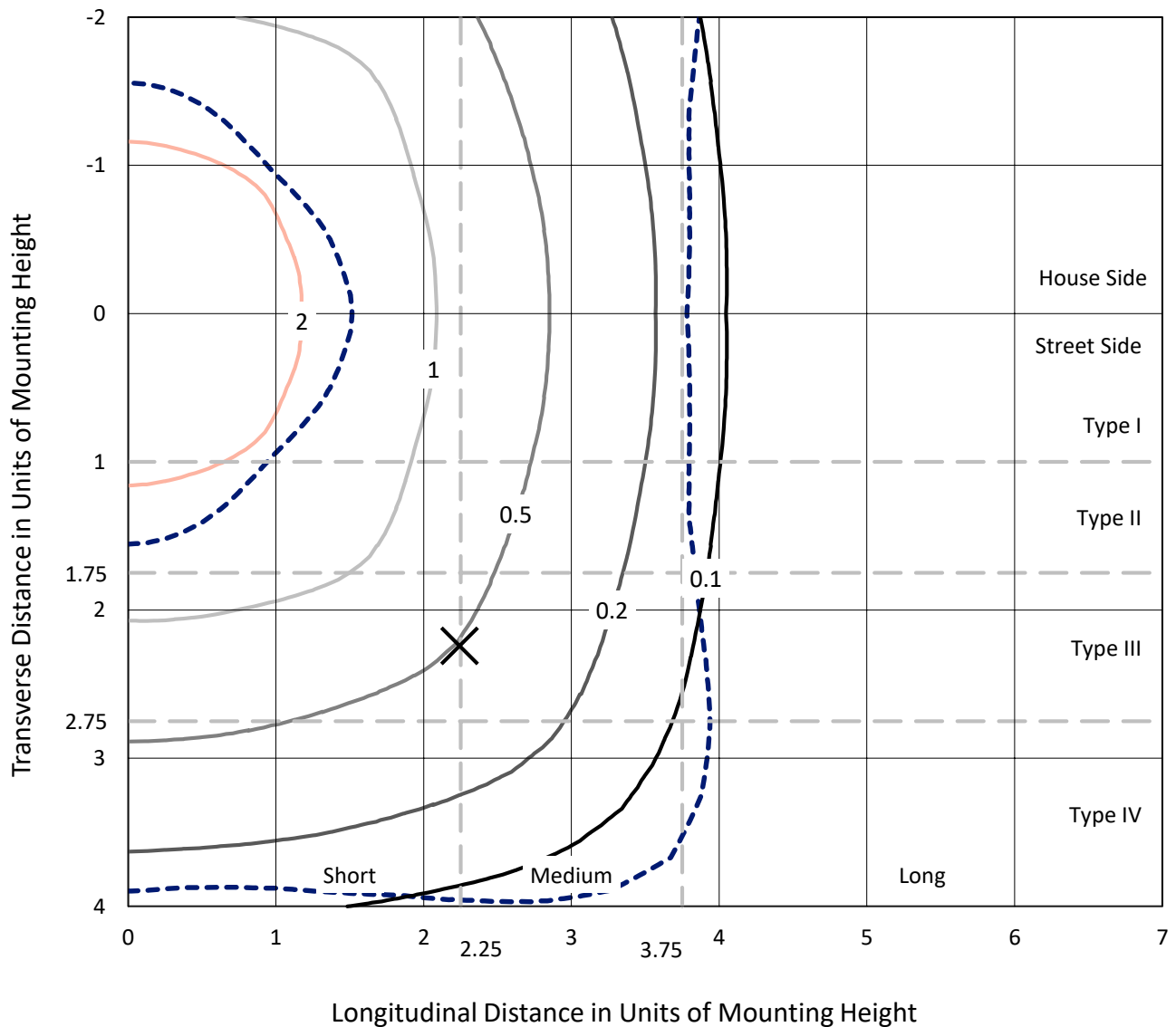


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

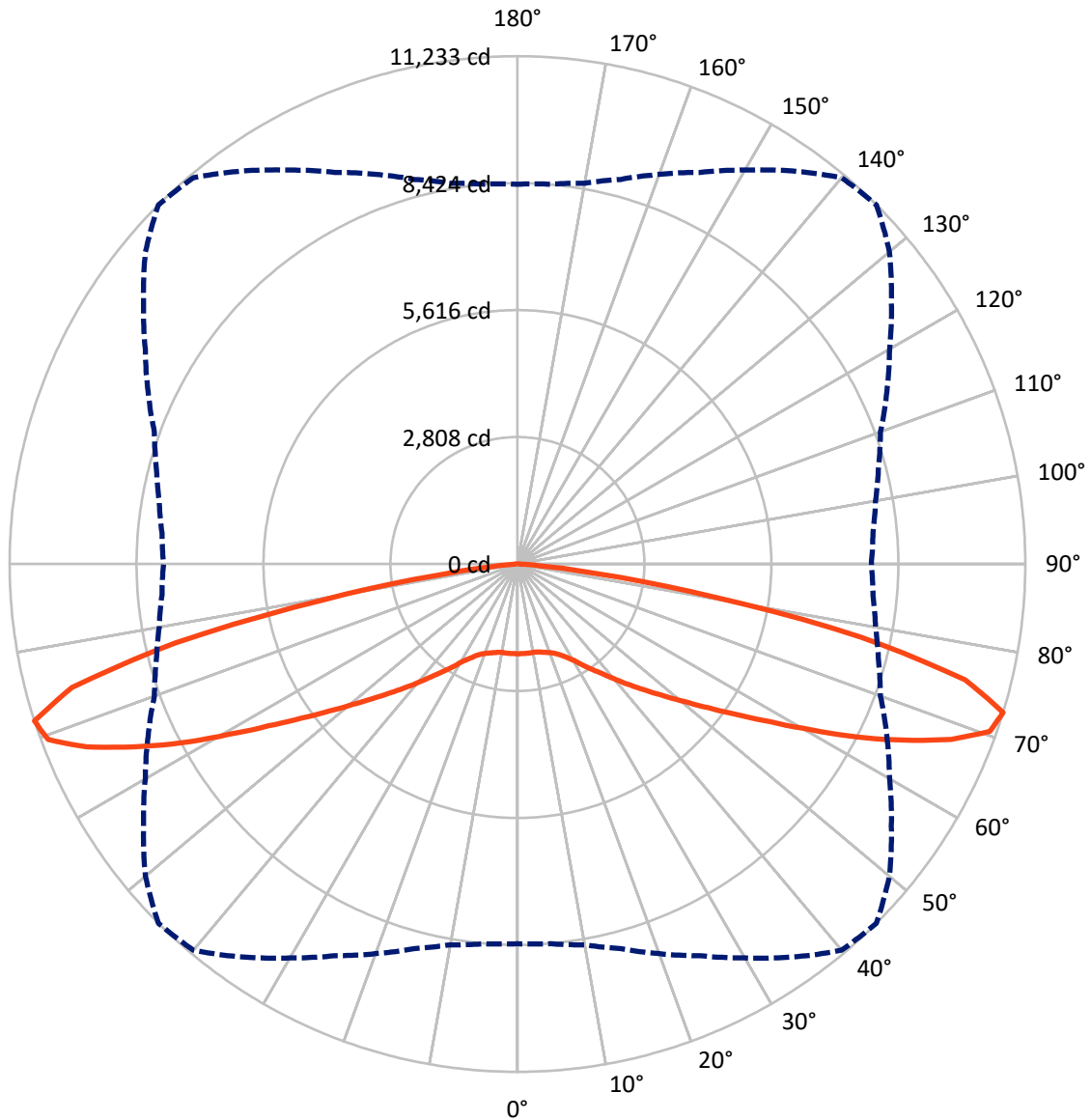


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14025.0	0.0	14025.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14025.0	0.0	14025.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28050.0	0.0	28050.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.7	0.7
10°-20°	576.1	2.1
20°-30°	1052.7	3.8
30°-40°	1815.1	6.5
40°-50°	3102.8	11.1
50°-60°	5029.3	17.9
60°-70°	8343.4	29.7
70°-80°	7348.6	26.2
80°-90°	592.5	2.1
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°	28050.0	100.0
0°-180°	28050.0	100.0



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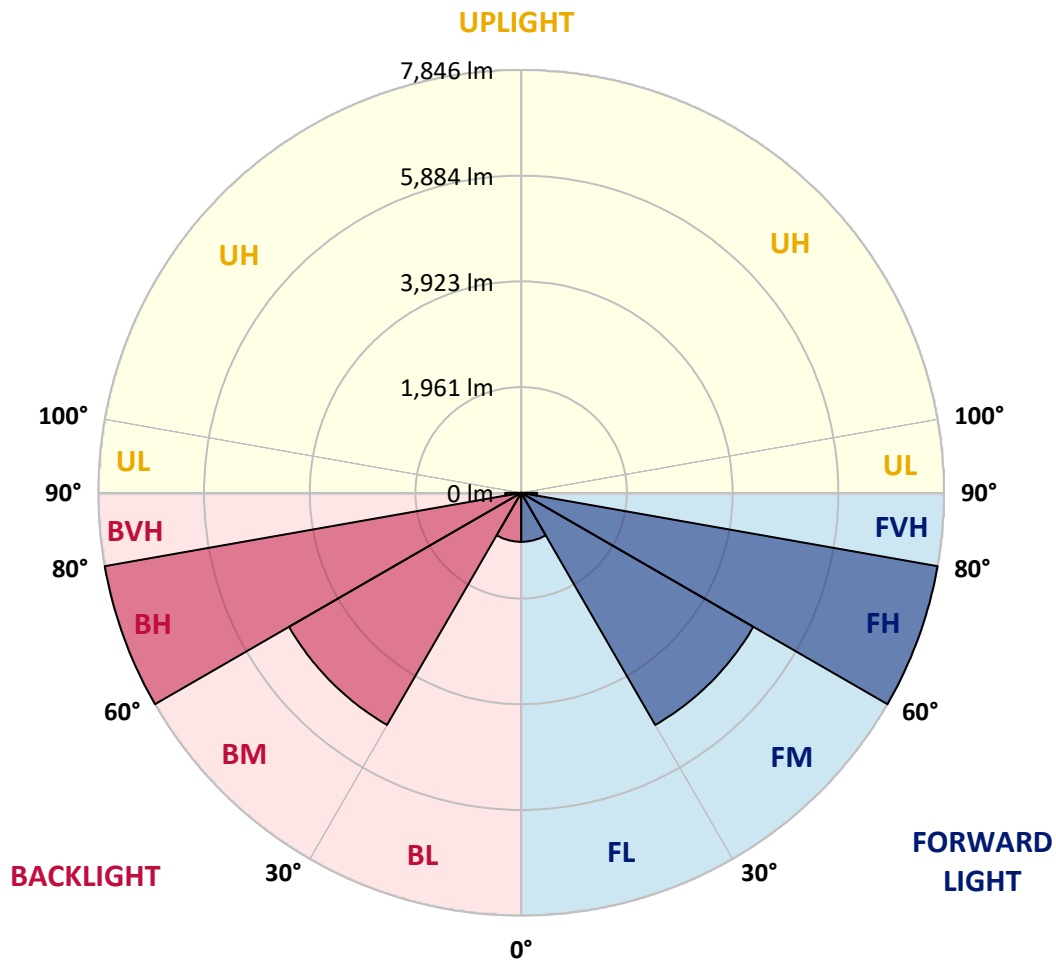
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	909.2	3.2			
FM	(30°-60°)	4973.6	17.7			
FH	(60°-80°)	7846.0	28.0			G4/12000
FVH	(80°-90°)	296.2	1.1			G3/500
BL	(0°-30°)	909.2	3.2	B2/1000		
BM	(30°-60°)	4973.6	17.7	B3/5000		
BH	(60°-80°)	7846.0	28.0	B5		G4/12000
BVH	(80°-90°)	296.2	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1986.4	1986.4	1986.4	1986.4	1986.4	1986.4	1986.4	1986.4	1986.4	1986.4	1986.4
2.5°	1986.4	1987.7	1988.9	1987.7	1987.7	1986.4	1985.1	1986.4	1985.1	1982.5	1983.8
5°	1992.8	1995.4	1995.4	1992.8	1994.1	1992.8	1990.2	1991.5	1988.9	1985.1	1985.1
7.5°	2000.5	2001.8	2001.8	1999.2	2000.5	1998.0	1995.4	1994.1	1991.5	1986.4	1982.5
10°	2012.1	2013.4	2012.1	2009.5	2009.5	2005.7	1999.2	1996.7	1991.5	1983.8	1979.9
12.5°	2025.0	2026.3	2025.0	2022.4	2021.1	2014.7	2009.5	2005.7	2001.8	1995.4	1988.9
15°	2043.0	2045.6	2043.0	2037.8	2034.0	2028.8	2026.3	2027.5	2028.8	2023.7	2017.3
17.5°	2076.4	2077.7	2073.9	2062.3	2057.1	2052.0	2052.0	2054.6	2058.4	2055.8	2049.4
20°	2138.2	2134.3	2125.3	2111.2	2104.7	2095.7	2094.4	2095.7	2095.7	2094.4	2089.3
22.5°	2215.4	2212.8	2201.2	2183.2	2174.2	2169.1	2161.3	2154.9	2153.6	2149.8	2144.6
25°	2308.0	2306.7	2292.6	2277.1	2270.7	2264.3	2257.8	2248.8	2241.1	2232.1	2227.0
27.5°	2426.4	2421.2	2400.6	2392.9	2383.9	2380.0	2371.0	2360.8	2354.3	2342.7	2336.3
30°	2556.3	2556.3	2539.6	2537.0	2537.0	2528.0	2517.7	2499.7	2488.1	2476.5	2472.7
32.5°	2686.2	2687.5	2670.8	2675.9	2679.8	2686.2	2688.8	2682.4	2674.7	2673.4	2665.7
35°	2874.1	2868.9	2852.2	2856.1	2854.8	2853.5	2853.5	2867.6	2870.2	2872.8	2857.3
37.5°	3106.9	3106.9	3090.2	3090.2	3082.5	3074.8	3064.5	3073.5	3087.6	3091.5	3081.2
40°	3373.2	3382.2	3361.7	3360.4	3362.9	3338.5	3326.9	3341.1	3350.1	3365.5	3353.9
42.5°	3687.1	3680.7	3660.1	3657.6	3643.4	3635.7	3625.4	3637.0	3651.1	3661.4	3665.3
45°	3988.2	3983.0	3959.9	3959.9	3945.7	3939.3	3944.4	3963.7	3970.2	3984.3	3998.5
47.5°	4285.4	4278.9	4263.5	4269.9	4271.2	4282.8	4299.5	4317.5	4335.5	4354.8	4361.3
50°	4589.0	4590.3	4573.6	4589.0	4608.3	4640.5	4685.5	4715.1	4752.4	4776.8	4784.5
52.5°	4865.6	4870.7	4888.7	4924.8	4963.4	5026.4	5103.6	5175.6	5237.4	5278.6	5276.0
55°	5197.5	5205.2	5249.0	5310.7	5373.8	5469.0	5583.5	5710.8	5813.8	5872.9	5835.6
57.5°	5622.1	5638.8	5687.7	5771.3	5865.2	5988.7	6145.7	6337.4	6496.9	6576.7	6516.2
60°	6204.9	6215.1	6274.3	6367.0	6480.2	6633.3	6843.0	7100.3	7325.4	7430.9	7361.4
62.5°	6972.9	6992.2	7039.8	7133.7	7249.5	7423.2	7679.2	8000.8	8281.3	8427.9	8271.0
65°	7890.2	7951.9	7991.8	8087.0	8195.1	8379.1	8646.7	8991.4	9292.5	9389.0	9207.6
67.5°	8798.5	8852.5	8922.0	9031.3	9140.7	9347.8	9596.1	9930.6	10261.2	10348.7	10067.0
70°	9196.0	9226.9	9334.9	9484.2	9693.9	9938.3	10225.2	10600.9	11010.0	11082.0	10724.4
72.5°	8399.6	8430.5	8551.5	8804.9	9170.3	9558.8	10059.2	10611.2	11151.5	11232.5	10739.8
75°	6352.8	6302.6	6481.5	6817.2	7310.0	7851.6	8551.5	9342.7	10123.6	10225.2	9637.3
77.5°	3283.2	3276.7	3411.8	3828.7	4416.6	5032.8	5803.5	6697.6	7461.8	7770.5	7292.0
80°	925.0	935.3	999.6	1206.7	1550.2	1995.4	2597.5	3435.0	4060.2	4379.3	4111.7
82.5°	362.8	391.1	415.5	454.1	499.2	564.8	753.9	1121.8	1505.2	1798.5	1473.1
85°	129.9	138.9	196.8	232.9	236.7	249.6	284.3	331.9	400.1	477.3	392.4
87.5°	48.9	54.0	63.0	104.2	102.9	93.9	114.5	119.6	90.1	82.3	101.6
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°	1986.4	1986.4	1986.4	1986.4	1986.4	1986.4	1986.4	1986.4
2.5°	1981.2	1982.5	1982.5	1983.8	1985.1	1985.1	1987.7	1987.7
5°	1982.5	1982.5	1979.9	1981.2	1979.9	1979.9	1981.2	1981.2
7.5°	1979.9	1978.7	1976.1	1974.8	1972.2	1972.2	1972.2	1972.2
10°	1976.1	1974.8	1972.2	1970.9	1969.7	1969.7	1969.7	1969.7
12.5°	1986.4	1982.5	1979.9	1978.7	1978.7	1978.7	1978.7	1978.7
15°	2013.4	2004.4	1998.0	1998.0	1999.2	2001.8	2001.8	2004.4
17.5°	2046.8	2036.5	2030.1	2025.0	2027.5	2031.4	2034.0	2036.5
20°	2086.7	2081.6	2072.6	2067.4	2067.4	2072.6	2075.1	2076.4
22.5°	2142.0	2138.2	2134.3	2127.9	2127.9	2130.5	2135.6	2135.6
25°	2224.4	2221.8	2219.2	2214.1	2212.8	2212.8	2215.4	2217.9
27.5°	2327.3	2328.6	2326.0	2324.7	2320.9	2319.6	2323.4	2322.2
30°	2465.0	2471.4	2477.8	2472.7	2466.2	2462.4	2458.5	2453.4
32.5°	2651.5	2643.8	2638.6	2629.6	2618.1	2607.8	2600.0	2591.0
35°	2827.8	2814.9	2809.7	2817.5	2816.2	2809.7	2800.7	2793.0
37.5°	3043.9	3041.3	3043.9	3058.0	3055.5	3061.9	3043.9	3042.6
40°	3316.6	3319.2	3337.2	3353.9	3362.9	3372.0	3361.7	3351.4
42.5°	3633.1	3631.8	3638.3	3661.4	3676.9	3687.1	3665.3	3662.7
45°	3967.6	3958.6	3963.7	3983.0	3998.5	4010.1	3985.6	3985.6
47.5°	4335.5	4320.1	4303.4	4325.3	4334.3	4342.0	4322.7	4316.3
50°	4745.9	4713.8	4677.8	4686.8	4686.8	4684.2	4659.7	4658.5
52.5°	5216.8	5157.6	5092.0	5067.6	5053.4	5038.0	4995.5	4974.9
55°	5758.4	5669.7	5566.7	5503.7	5470.3	5427.8	5357.0	5337.7
57.5°	6391.4	6252.5	6074.9	5997.7	5923.1	5853.6	5775.2	5753.3
60°	7141.4	6936.9	6701.4	6558.6	6477.6	6410.7	6329.6	6325.8
62.5°	7977.7	7654.8	7388.4	7259.8	7200.6	7141.4	7064.2	7074.5
65°	8828.1	8491.0	8241.4	8137.2	8081.9	8033.0	7955.8	7967.4
67.5°	9666.9	9356.8	9082.8	8976.0	8914.2	8852.5	8783.0	8794.6
70°	10268.9	9884.3	9575.5	9338.8	9190.8	9023.6	8915.5	8888.5
72.5°	10096.6	9503.5	9013.3	8543.7	8268.4	8044.6	7892.8	7827.1
75°	8738.0	7927.5	7297.1	6720.7	6396.5	6132.8	5941.1	5821.5
77.5°	6489.2	5578.3	4833.4	4169.6	3644.7	3292.2	3043.9	2883.1
80°	3552.1	2701.7	1974.8	1388.1	1020.2	847.8	748.8	701.1
82.5°	1106.4	714.0	526.2	454.1	422.0	404.0	374.4	326.8
85°	352.5	308.8	286.9	274.0	261.2	227.7	157.0	142.8
87.5°	136.4	140.2	138.9	131.2	133.8	96.5	77.2	68.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)