

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: P299840

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299840
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: GAA-AF-05-LED-U-5WQ-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30205.3 lumens
Efficiency: N/A
Efficacy: 108.3 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

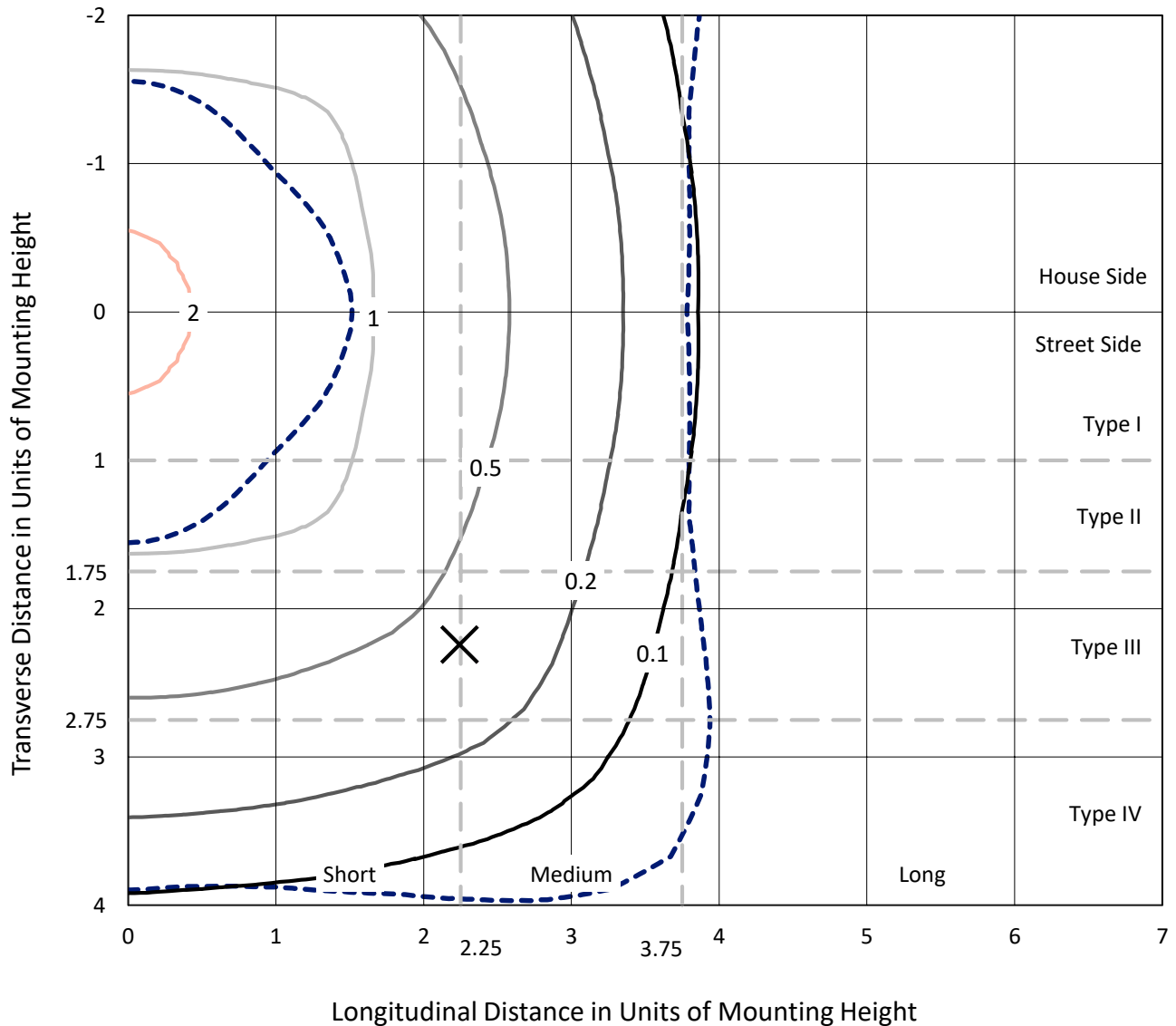
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

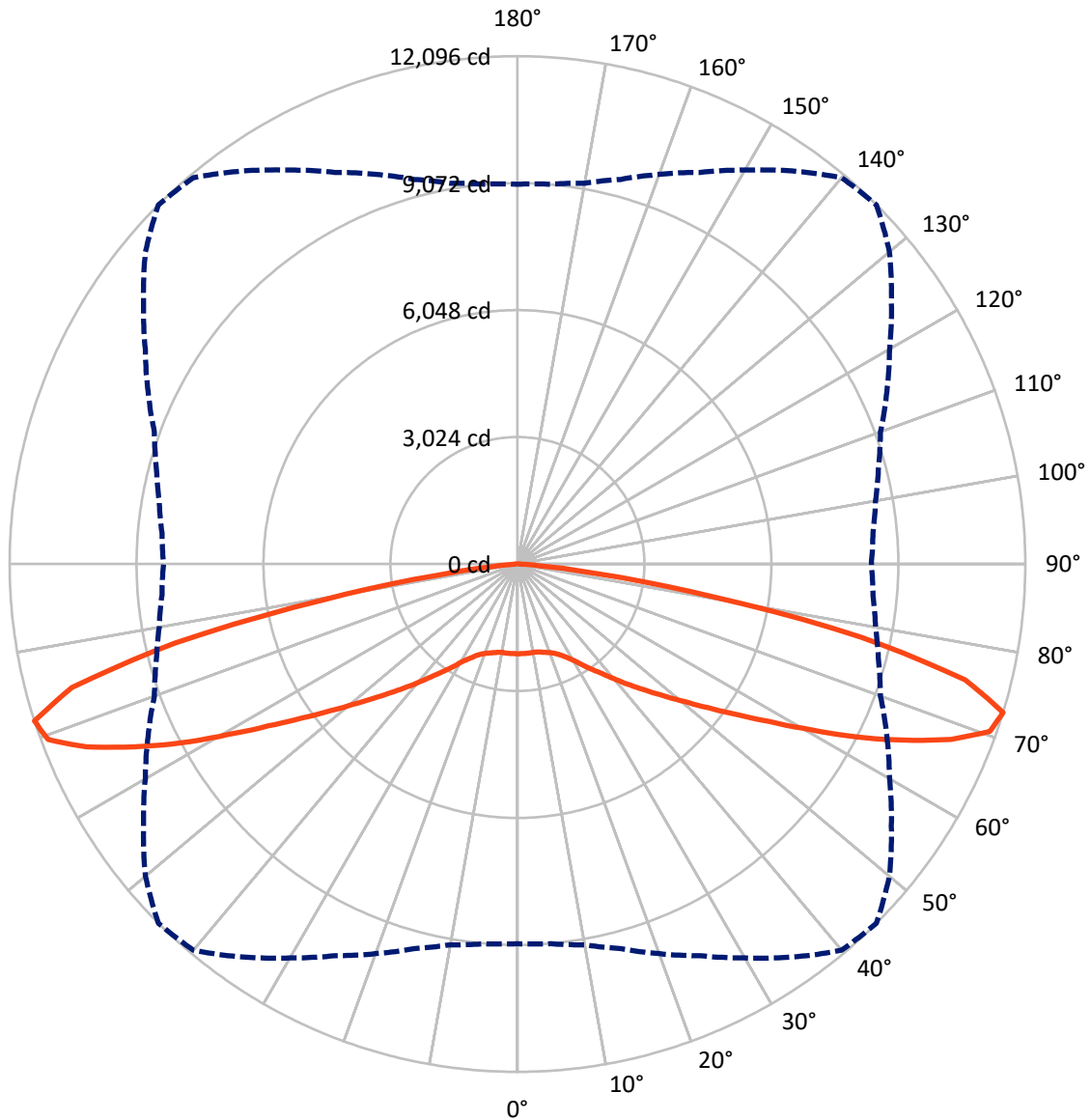
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.4 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	15102.6	0.0	15102.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15102.6	0.0	15102.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	30205.3	0.0	30205.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.3	0.7
10°-20°	620.3	2.1
20°-30°	1133.6	3.8
30°-40°	1954.5	6.5
40°-50°	3341.2	11.1
50°-60°	5415.7	17.9
60°-70°	8984.4	29.7
70°-80°	7913.2	26.2
80°-90°	638.0	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°	30205.3	100.0
0°-180°	30205.3	100.0

Coefficient of Utilization



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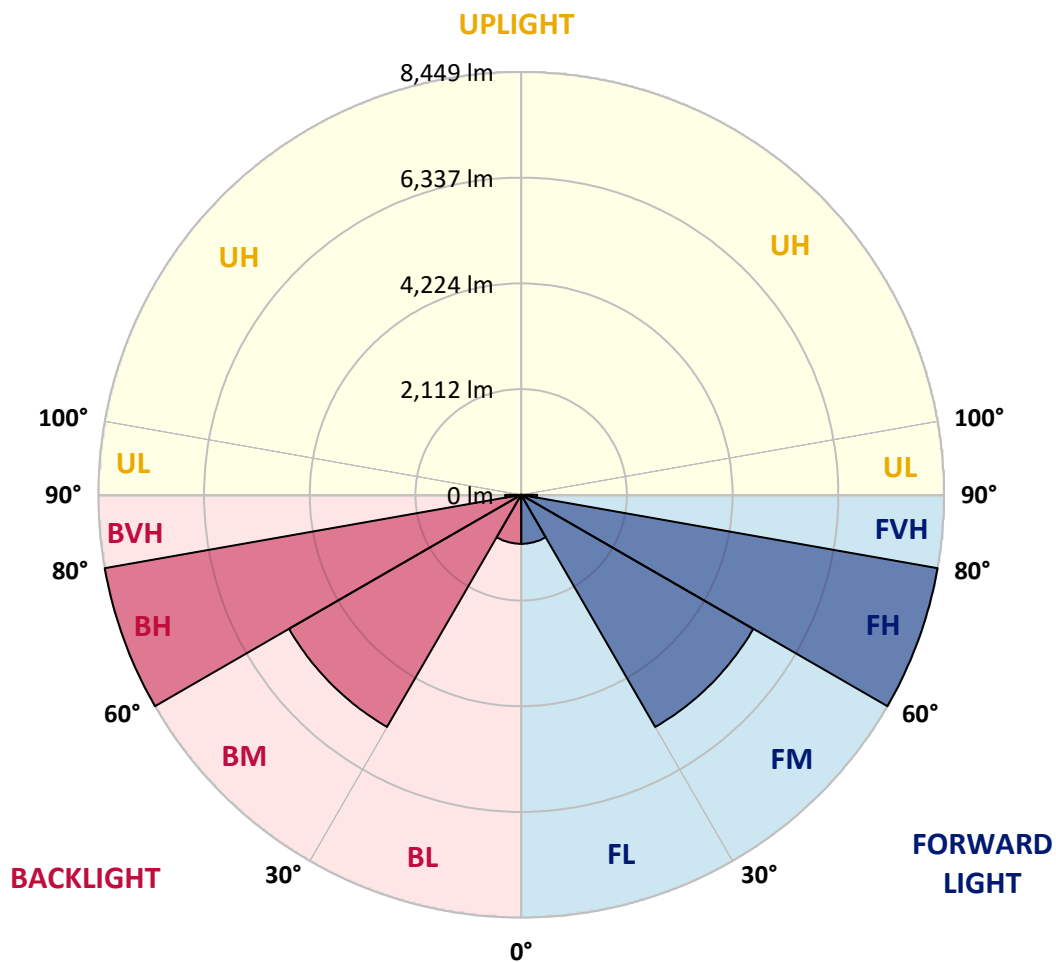
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	979.1	3.2			
FM	(30°-60°)	5355.7	17.7			
FH	(60°-80°)	8448.8	28.0			G4/12000
FVH	(80°-90°)	319.0	1.1			G3/500
BL	(0°-30°)	979.1	3.2	B2/1000		
BM	(30°-60°)	5355.7	17.7	B4/8500		
BH	(60°-80°)	8448.8	28.0	B5		G4/12000
BVH	(80°-90°)	319.0	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°	2139.0	2139.0	2139.0	2139.0	2139.0	2139.0	2139.0	2139.0	2139.0	2139.0	2139.0
2.5°	2139.0	2140.4	2141.8	2140.4	2140.4	2139.0	2137.6	2139.0	2137.6	2134.8	2136.2
5°	2145.9	2148.7	2148.7	2145.9	2147.3	2145.9	2143.2	2144.5	2141.8	2137.6	2137.6
7.5°	2154.2	2155.6	2155.6	2152.9	2154.2	2151.5	2148.7	2147.3	2144.5	2139.0	2134.8
10°	2166.7	2168.1	2166.7	2163.9	2163.9	2159.8	2152.9	2150.1	2144.5	2136.2	2132.1
12.5°	2180.6	2181.9	2180.6	2177.8	2176.4	2169.5	2163.9	2159.8	2155.6	2148.7	2141.8
15°	2200.0	2202.7	2200.0	2194.4	2190.3	2184.7	2181.9	2183.3	2184.7	2179.2	2172.2
17.5°	2236.0	2237.4	2233.2	2220.7	2215.2	2209.7	2209.7	2212.4	2216.6	2213.8	2206.9
20°	2302.5	2298.3	2288.6	2273.4	2266.5	2256.8	2255.4	2256.8	2256.8	2255.4	2249.8
22.5°	2385.6	2382.8	2370.4	2351.0	2341.3	2335.7	2327.4	2320.5	2319.1	2314.9	2309.4
25°	2485.3	2484.0	2468.7	2452.1	2445.2	2438.2	2431.3	2421.6	2413.3	2403.6	2398.1
27.5°	2612.8	2607.3	2585.1	2576.8	2567.1	2562.9	2553.2	2542.1	2535.2	2522.7	2515.8
30°	2752.7	2752.7	2734.7	2731.9	2731.9	2722.2	2711.2	2691.8	2679.3	2666.8	2662.7
32.5°	2892.6	2894.0	2876.0	2881.6	2885.7	2892.6	2895.4	2888.5	2880.2	2878.8	2870.5
35°	3094.9	3089.4	3071.4	3075.5	3074.1	3072.7	3072.7	3088.0	3090.7	3093.5	3076.9
37.5°	3345.7	3345.7	3327.6	3327.6	3319.3	3311.0	3299.9	3309.6	3324.9	3329.0	3317.9
40°	3632.4	3642.1	3620.0	3618.6	3621.3	3595.0	3582.5	3597.8	3607.5	3624.1	3611.6
42.5°	3970.5	3963.5	3941.4	3938.6	3923.3	3915.0	3904.0	3916.4	3931.7	3942.7	3946.9
45°	4294.6	4289.1	4264.1	4264.1	4248.9	4242.0	4247.5	4268.3	4275.2	4290.5	4305.7
47.5°	4614.6	4607.7	4591.1	4598.0	4599.4	4611.9	4629.9	4649.3	4668.7	4689.5	4696.4
50°	4941.6	4943.0	4925.0	4941.6	4962.4	4997.0	5045.5	5077.4	5117.5	5143.9	5152.2
52.5°	5239.4	5245.0	5264.4	5303.2	5344.7	5412.6	5495.7	5573.3	5639.8	5684.1	5681.4
55°	5596.9	5605.2	5652.3	5718.8	5786.7	5889.2	6012.5	6149.6	6260.5	6324.2	6284.0
57.5°	6054.0	6072.0	6124.7	6214.7	6315.9	6448.9	6617.9	6824.3	6996.1	7082.0	7016.9
60°	6681.6	6692.7	6756.4	6856.2	6978.1	7142.9	7368.7	7645.8	7888.3	8001.9	7927.0
62.5°	7508.7	7529.4	7580.7	7681.8	7806.5	7993.5	8269.2	8615.6	8917.6	9075.5	8906.5
65°	8496.4	8562.9	8605.9	8708.4	8824.8	9022.9	9311.0	9682.3	10006.5	10110.4	9915.0
67.5°	9474.5	9532.7	9607.5	9725.3	9843.0	10066.0	10333.4	10693.6	11049.7	11143.9	10840.5
70°	9902.6	9935.8	10052.2	10212.9	10438.7	10701.9	11010.9	11415.4	11855.9	11933.5	11548.4
72.5°	9045.0	9078.3	9208.5	9481.4	9874.9	10293.2	10832.2	11426.5	12008.3	12095.6	11565.0
75°	6840.9	6786.9	6979.5	7341.0	7871.6	8454.9	9208.5	10060.5	10901.4	11010.9	10377.8
77.5°	3535.4	3528.5	3674.0	4122.8	4756.0	5419.5	6249.4	7212.2	8035.1	8367.6	7852.2
80°	996.1	1007.2	1076.4	1299.5	1669.4	2148.7	2797.0	3698.9	4372.2	4715.8	4427.6
82.5°	390.7	421.2	447.5	489.0	537.5	608.2	811.8	1208.0	1620.9	1936.7	1586.2
85°	139.9	149.6	212.0	250.8	254.9	268.8	306.2	357.4	430.8	514.0	422.5
87.5°	52.6	58.2	67.9	112.2	110.8	101.1	123.3	128.8	97.0	88.7	109.4
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°	2139.0	2139.0	2139.0	2139.0	2139.0	2139.0	2139.0	2139.0
2.5°	2133.5	2134.8	2134.8	2136.2	2137.6	2137.6	2140.4	2140.4
5°	2134.8	2134.8	2132.1	2133.5	2132.1	2132.1	2133.5	2133.5
7.5°	2132.1	2130.7	2127.9	2126.5	2123.8	2123.8	2123.8	2123.8
10°	2127.9	2126.5	2123.8	2122.4	2121.0	2121.0	2121.0	2121.0
12.5°	2139.0	2134.8	2132.1	2130.7	2130.7	2130.7	2130.7	2130.7
15°	2168.1	2158.4	2151.5	2151.5	2152.9	2155.6	2155.6	2158.4
17.5°	2204.1	2193.0	2186.1	2180.6	2183.3	2187.5	2190.3	2193.0
20°	2247.1	2241.5	2231.8	2226.3	2226.3	2231.8	2234.6	2236.0
22.5°	2306.6	2302.5	2298.3	2291.4	2291.4	2294.2	2299.7	2299.7
25°	2395.3	2392.5	2389.8	2384.2	2382.8	2382.8	2385.6	2388.4
27.5°	2506.1	2507.5	2504.7	2503.4	2499.2	2497.8	2502.0	2500.6
30°	2654.4	2661.3	2668.2	2662.7	2655.7	2651.6	2647.4	2641.9
32.5°	2855.2	2846.9	2841.4	2831.7	2819.2	2808.1	2799.8	2790.1
35°	3045.0	3031.2	3025.6	3033.9	3032.6	3025.6	3015.9	3007.6
37.5°	3277.8	3275.0	3277.8	3293.0	3290.2	3297.2	3277.8	3276.4
40°	3571.5	3574.2	3593.6	3611.6	3621.3	3631.0	3620.0	3608.9
42.5°	3912.3	3910.9	3917.8	3942.7	3959.4	3970.5	3946.9	3944.1
45°	4272.5	4262.8	4268.3	4289.1	4305.7	4318.2	4291.9	4291.9
47.5°	4668.7	4652.0	4634.0	4657.6	4667.3	4675.6	4654.8	4647.9
50°	5110.6	5076.0	5037.2	5046.9	5046.9	5044.1	5017.8	5016.4
52.5°	5617.6	5553.9	5483.3	5456.9	5441.7	5425.1	5379.4	5357.2
55°	6200.9	6105.3	5994.5	5926.6	5890.6	5844.8	5768.7	5747.9
57.5°	6882.5	6732.9	6541.7	6458.6	6378.2	6303.4	6218.9	6195.3
60°	7690.2	7469.9	7216.4	7062.6	6975.3	6903.3	6816.0	6811.8
62.5°	8590.6	8242.9	7956.1	7817.6	7753.9	7690.2	7607.0	7618.1
65°	9506.4	9143.4	8874.6	8762.4	8702.9	8650.2	8567.1	8579.6
67.5°	10409.6	10075.7	9780.7	9665.7	9599.2	9532.7	9457.9	9470.3
70°	11058.0	10643.7	10311.3	10056.4	9897.0	9716.9	9600.6	9571.5
72.5°	10872.3	10233.7	9705.9	9200.2	8903.7	8662.7	8499.2	8428.6
75°	9409.4	8536.6	7857.8	7237.1	6888.0	6604.0	6397.6	6268.8
77.5°	6987.8	6006.9	5204.8	4490.0	3924.7	3545.1	3277.8	3104.6
80°	3825.0	2909.3	2126.5	1494.8	1098.6	913.0	806.3	755.0
82.5°	1191.4	768.9	566.6	489.0	454.4	435.0	403.1	351.9
85°	379.6	332.5	308.9	295.1	281.2	245.2	169.0	153.8
87.5°	146.8	151.0	149.6	141.3	144.1	103.9	83.1	73.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)