

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: P322190

Luminaire Tested: **GAN-SA6A-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18497 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

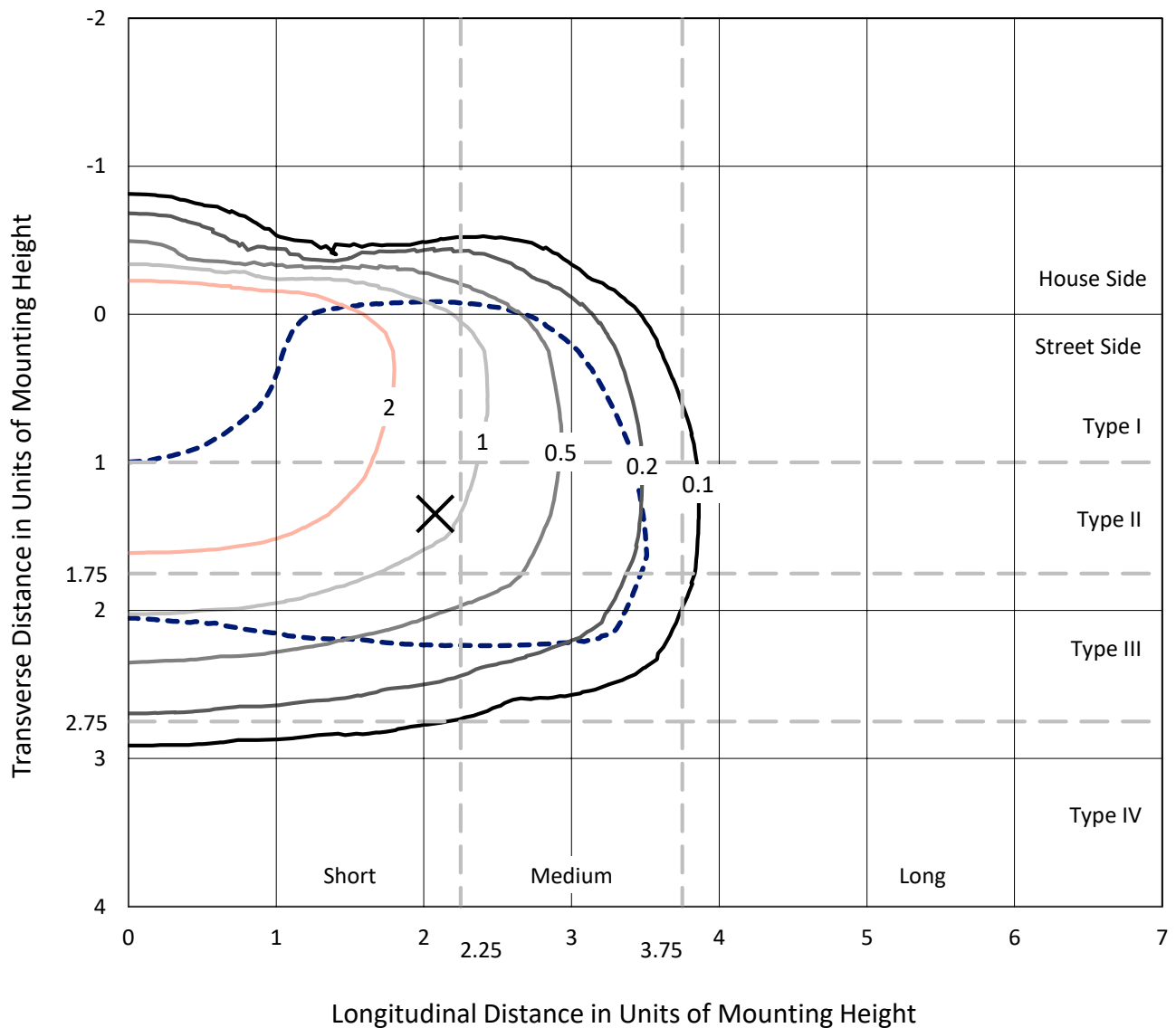
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

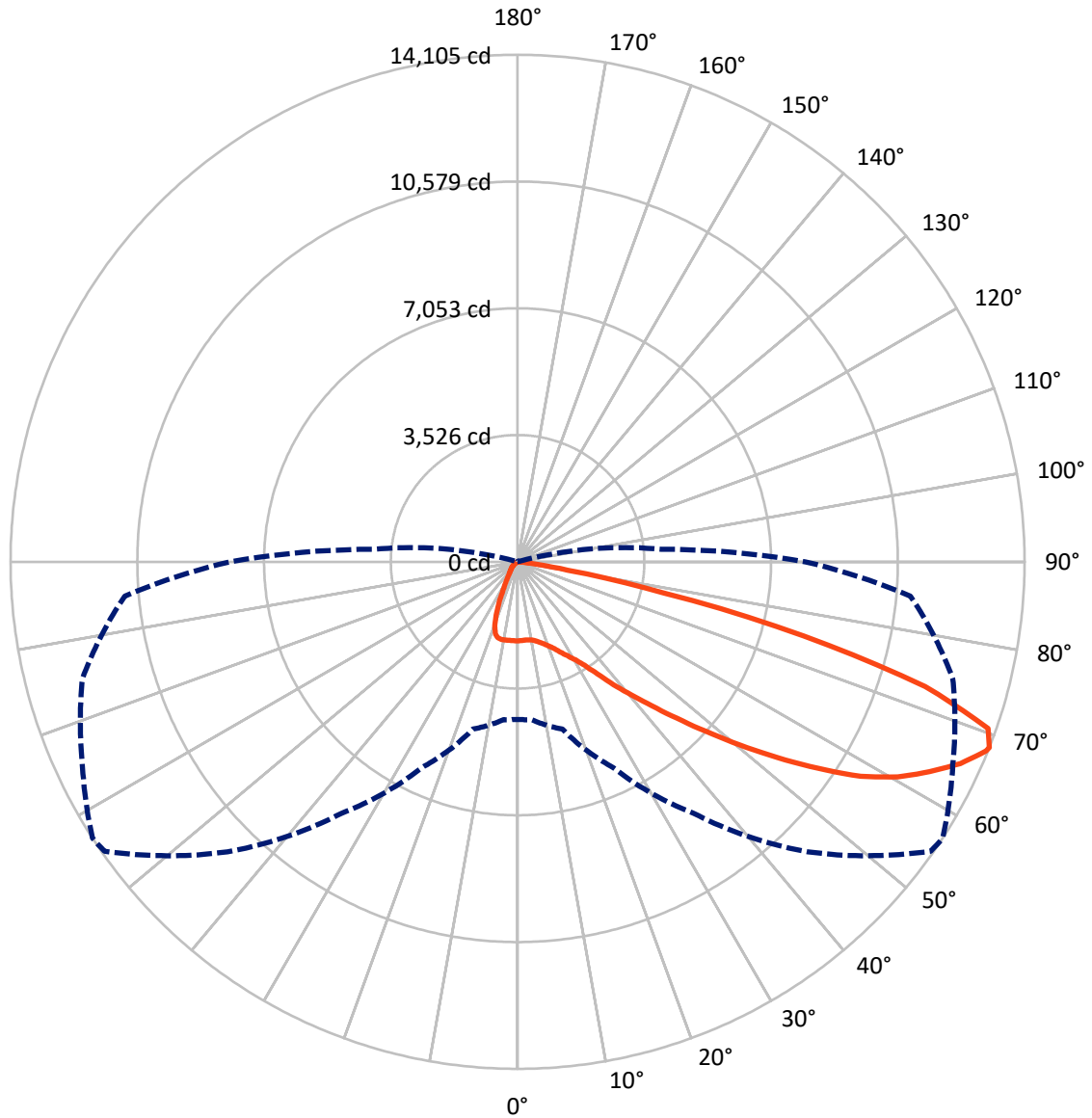
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2028.3	0.0	2028.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	16468.7	0.0	16468.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	18497.0	0.0	18497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.7	1.1
10°-20°	570.0	3.1
20°-30°	983.3	5.3
30°-40°	1697.1	9.2
40°-50°	2903.0	15.7
50°-60°	4644.4	25.1
60°-70°	5366.2	29.0
70°-80°	2050.5	11.1
80°-90°	76.9	0.4
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°	18497.0	100.0
0°-180°	18497.0	100.0

Coefficient of Utilization

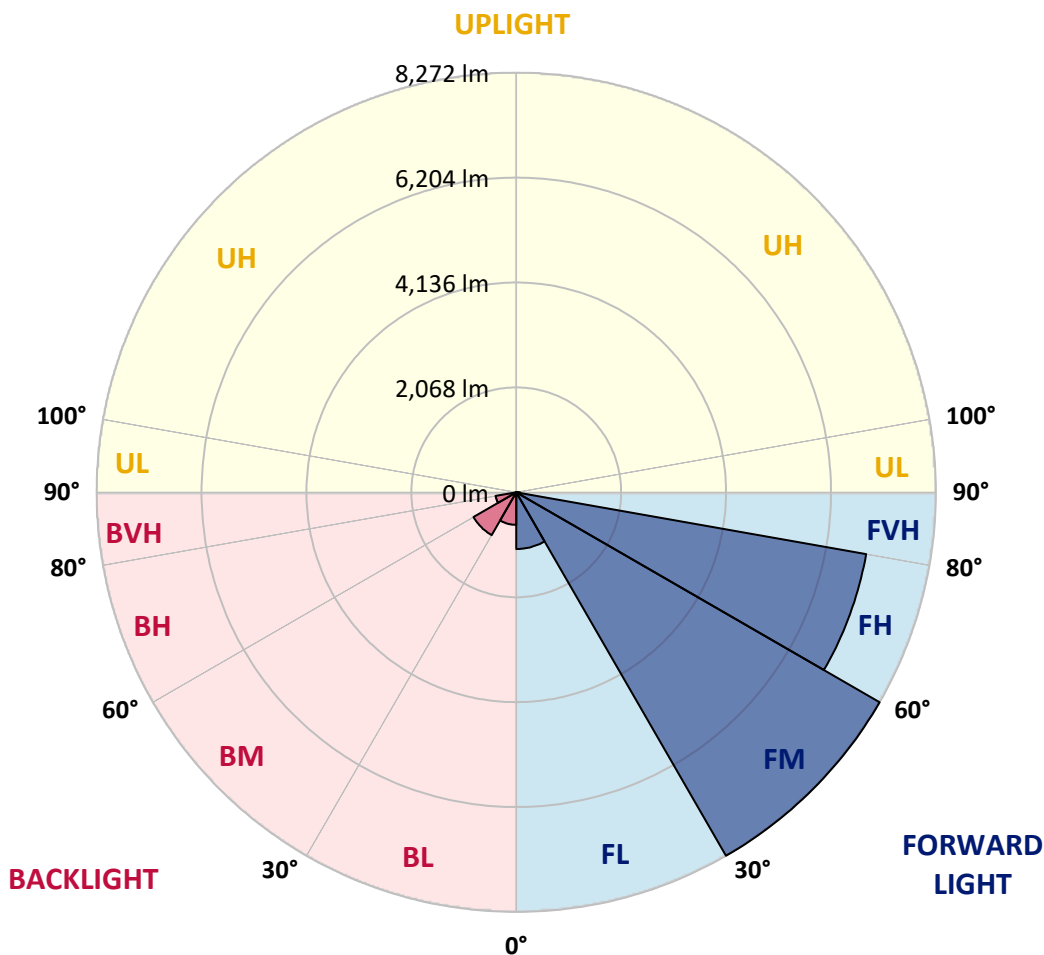


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1118.0	6.0			
FM (30°-60°)	8271.7	44.7			
FH (60°-80°)	7003.6	37.9			G3/7500
FVH (80°-90°)	75.5	0.4			G1/100
BL (0°-30°)	641.0	3.5	B2/1000		
BM (30°-60°)	972.8	5.3	B1/1000		
BH (60°-80°)	413.1	2.2	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9
2.5°	2146.3	2155.9	2162.9	2167.3	2172.6	2183.9	2187.4	2192.7	2195.3	2195.3	2201.4
5°	2061.5	2072.0	2086.9	2099.1	2123.6	2155.1	2177.8	2186.6	2202.3	2216.3	2224.2
7.5°	1982.8	1995.0	2012.5	2041.4	2083.4	2134.1	2181.3	2193.6	2224.2	2253.9	2268.8
10°	1932.0	1941.7	1964.4	2005.5	2060.6	2131.5	2197.9	2212.8	2265.3	2315.1	2343.1
12.5°	1914.6	1923.3	1946.9	1993.3	2061.5	2144.6	2236.4	2258.3	2335.2	2407.8	2447.2
15°	1939.9	1941.7	1967.0	2010.8	2078.1	2176.9	2300.3	2326.5	2423.6	2518.0	2567.0
17.5°	2037.9	2030.0	2043.1	2062.4	2115.7	2219.8	2367.6	2407.0	2536.4	2647.5	2693.8
20°	2282.8	2282.8	2253.0	2200.6	2201.4	2286.3	2458.6	2503.2	2661.5	2790.1	2832.0
22.5°	2701.7	2693.8	2634.4	2505.8	2387.7	2400.8	2569.6	2627.4	2811.9	2949.2	2963.2
25°	3205.5	3195.9	3104.0	2923.0	2718.3	2586.3	2720.1	2786.6	2991.2	3112.8	3083.9
27.5°	3739.0	3731.1	3640.2	3415.4	3124.2	2881.9	2899.4	2962.4	3174.0	3293.8	3202.0
30°	4255.9	4258.5	4168.5	3937.6	3607.8	3258.9	3126.8	3163.5	3351.6	3473.1	3341.9
32.5°	4747.5	4751.0	4673.1	4415.1	4107.2	3697.0	3441.6	3432.0	3558.0	3677.8	3527.4
35°	5185.6	5194.4	5141.0	4940.8	4614.5	4185.1	3850.1	3827.4	3851.0	3986.5	3811.6
37.5°	5608.1	5613.3	5573.1	5404.3	5131.4	4721.2	4366.1	4333.8	4283.0	4387.1	4186.8
40°	6070.8	6057.6	6011.3	5858.2	5623.8	5313.3	4920.6	4864.7	4776.3	4869.0	4680.1
42.5°	6501.1	6486.2	6494.1	6320.9	6123.2	5922.1	5567.0	5470.8	5419.2	5525.9	5285.4
45°	7039.0	7031.1	7057.3	6906.9	6746.9	6600.8	6307.8	6202.8	6180.1	6305.2	6017.4
47.5°	7569.9	7589.1	7670.5	7606.6	7541.9	7413.3	7092.3	7045.1	7059.1	7210.4	6789.7
50°	8012.4	8035.2	8258.2	8331.7	8425.3	8350.0	8028.2	7999.3	8054.4	8190.9	7620.6
52.5°	8332.5	8378.9	8656.2	8994.6	9335.7	9386.5	9065.5	9039.2	9113.6	9134.6	8262.6
55°	8554.7	8595.8	8909.8	9529.0	10223.5	10442.1	10242.7	10141.3	10127.3	9920.0	8937.8
57.5°	8594.1	8589.7	9041.0	9874.5	10919.7	11483.8	11357.9	11258.2	10971.3	10645.9	9711.8
60°	8371.9	8397.3	8921.2	9994.3	11357.0	12271.9	12281.5	12152.0	11705.1	11351.8	10462.3
62.5°	7687.9	7791.2	8320.3	9680.3	11351.8	12589.3	12958.4	12859.6	12325.2	11929.9	11223.2
65°	6578.9	6615.7	7120.3	8604.6	10584.7	12456.4	13568.0	13531.3	12884.1	12491.4	11614.1
67.5°	4804.3	4724.7	5254.7	6775.7	8961.4	11681.5	14005.4	14051.7	13315.3	12606.8	11197.8
68°	4384.5	4408.1	4820.9	6323.5	8536.3	11407.7	14034.2	14105.1	13358.1	12531.6	10970.4
70°	2613.4	2658.9	3027.1	4353.9	6494.1	9858.8	13722.9	13884.7	13102.7	11755.8	9488.8
72.5°	667.3	721.6	1069.7	1948.7	3709.3	6946.3	11584.4	11858.2	11376.2	9536.9	6405.7
75°	274.6	288.6	382.2	642.0	1381.9	3129.4	7635.5	8221.5	7886.5	5709.5	2895.0
77.5°	189.8	199.4	245.8	356.0	598.2	1060.9	3743.4	4166.7	3753.9	1948.7	631.5
80°	136.4	144.3	175.8	237.0	343.7	378.7	1220.1	1410.8	1120.4	427.7	156.6
82.5°	81.3	87.5	131.2	168.8	209.0	181.0	303.5	344.6	324.5	212.5	70.0
85°	40.2	47.2	88.3	120.7	112.8	76.1	92.7	103.2	127.7	129.4	37.6
87.5°	2.6	5.2	51.6	72.6	31.5	17.5	27.1	33.2	45.5	63.8	15.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9
2.5°	2204.1	2204.9	2198.8	2196.2	2197.9	2187.4	2183.1	2184.8	2184.8	2187.4	2183.1
5°	2225.9	2225.9	2215.4	2201.4	2193.6	2173.4	2160.3	2156.8	2154.2	2152.5	2149.0
7.5°	2273.1	2267.9	2249.5	2218.9	2192.7	2149.0	2115.7	2098.2	2089.5	2086.0	2083.4
10°	2349.2	2339.6	2309.0	2252.2	2191.8	2114.0	2041.4	1989.8	1946.9	1929.4	1918.9
12.5°	2451.6	2437.6	2386.0	2291.5	2185.7	2042.2	1884.8	1733.5	1592.7	1535.0	1506.1
15°	2569.6	2549.5	2468.2	2324.8	2149.8	1880.4	1538.5	1273.5	1078.4	1004.9	973.5
17.5°	2689.5	2663.2	2539.9	2345.7	2042.2	1545.5	1079.3	815.1	684.8	649.8	637.6
20°	2810.2	2771.7	2602.0	2330.0	1799.1	1114.3	711.9	595.6	558.0	547.5	544.0
22.5°	2924.7	2865.3	2658.0	2268.8	1424.8	747.8	563.3	526.5	514.3	508.2	506.4
25°	3024.5	2941.4	2707.0	2079.9	1008.4	565.0	507.3	495.0	479.3	467.9	468.8
27.5°	3118.0	3017.5	2736.7	1768.5	672.6	482.8	469.7	453.1	424.2	407.6	407.6
30°	3230.9	3118.9	2758.6	1360.9	495.0	426.8	416.3	391.0	351.6	329.7	329.7
32.5°	3400.5	3272.8	2744.6	955.1	410.2	375.2	350.7	315.7	272.9	251.9	251.0
35°	3660.3	3510.7	2644.9	626.2	362.1	326.2	286.9	244.0	206.4	188.9	188.0
37.5°	4010.2	3829.1	2421.0	447.8	324.5	280.8	233.5	186.3	158.3	146.9	146.1
40°	4464.1	4199.1	2100.8	363.0	289.5	237.0	180.2	144.3	125.1	116.3	117.2
42.5°	5009.0	4595.3	1716.9	313.1	255.4	195.0	140.8	113.7	101.5	95.3	93.6
45°	5614.2	4986.2	1314.6	279.0	221.3	157.4	110.2	90.1	80.5	77.0	77.0
47.5°	6279.8	5366.7	962.1	249.3	184.5	121.6	88.3	73.5	65.6	63.0	62.1
50°	6884.2	5630.8	693.6	217.8	151.3	96.2	71.7	61.2	56.0	52.5	52.5
52.5°	7388.0	5713.9	510.8	183.7	122.4	77.0	59.5	52.5	47.2	44.6	44.6
55°	7831.4	5679.8	379.6	151.3	98.8	63.0	50.7	44.6	40.2	37.6	37.6
57.5°	8256.5	5569.6	283.4	123.3	79.6	50.7	42.9	37.6	33.2	31.5	31.5
60°	8603.7	5385.9	210.8	99.7	63.8	41.1	35.9	30.6	27.1	24.5	24.5
62.5°	8885.3	5183.0	154.8	82.2	50.7	32.4	28.0	25.4	20.1	17.5	17.5
65°	8887.1	4846.3	116.3	68.2	39.4	25.4	21.0	20.1	13.1	10.5	9.6
67.5°	8244.2	4178.1	89.2	58.6	30.6	19.2	15.7	16.6	7.0	4.4	3.5
68°	8010.7	4008.4	84.0	57.7	28.9	18.4	14.9	16.6	6.1	3.5	2.6
70°	6753.9	3188.9	67.3	56.0	25.4	14.0	12.2	16.6	5.2	2.6	1.7
72.5°	4319.8	1850.7	49.9	44.6	19.2	10.5	7.9	14.9	5.2	1.7	0.9
75°	1838.5	573.8	34.1	31.5	11.4	7.9	5.2	9.6	3.5	0.9	0.0
77.5°	387.5	129.4	20.1	19.2	7.9	5.2	3.5	2.6	0.9	0.0	0.0
80°	99.7	37.6	10.5	9.6	4.4	2.6	1.7	0.0	0.0	0.0	0.0
82.5°	31.5	14.9	6.1	4.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.7	8.7	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.7	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)