

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: P321270

Luminaire Tested: **GAN-SA6A-740-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22498 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - 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

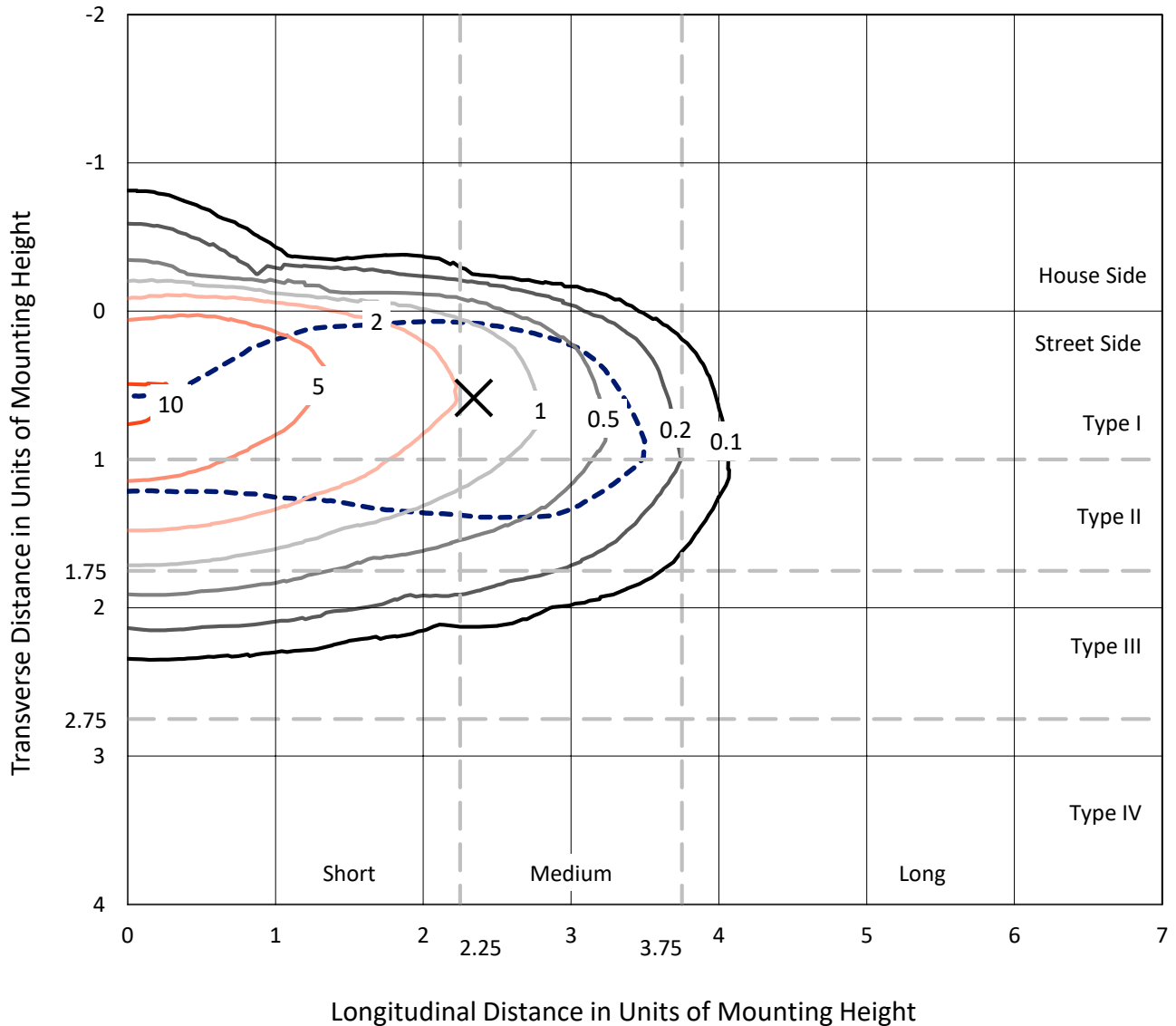




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Iso-Footcandle Lines of Horizontal Illumination

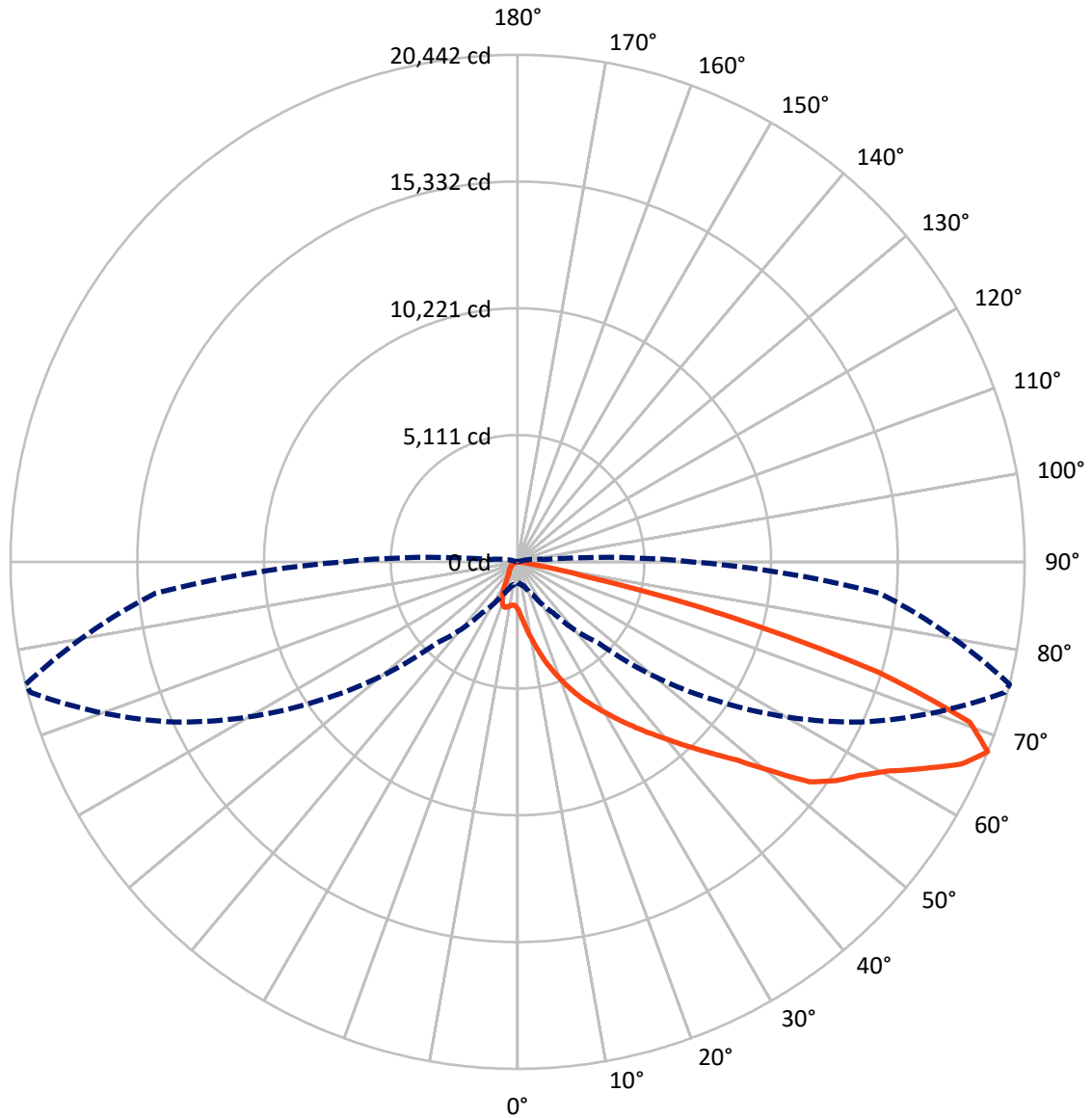
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1117.2	0.0	1117.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	21380.8	0.0	21380.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	22498.0	0.0	22498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.3	1.1
10°-20°	940.8	4.2
20°-30°	1914.1	8.5
30°-40°	3322.3	14.8
40°-50°	4694.0	20.9
50°-60°	5323.2	23.7
60°-70°	4415.1	19.6
70°-80°	1599.3	7.1
80°-90°	51.9	0.2
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°	22498.0	100.0
0°-180°	22498.0	100.0

Coefficient of Utilization

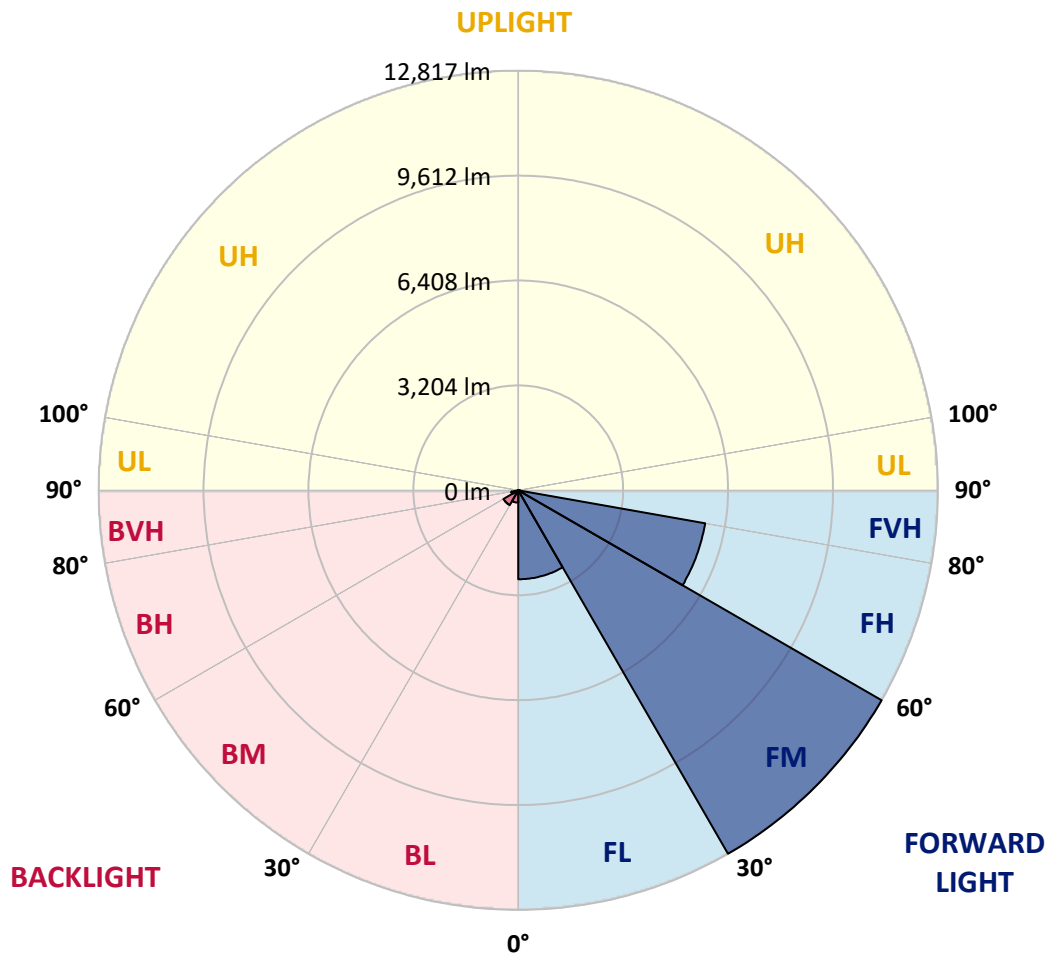


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2715.4	12.1			
FM (30°-60°)	12816.7	57.0			
FH (60°-80°)	5798.5	25.8			G3/7500
FVH (80°-90°)	50.2	0.2			G1/100
BL (0°-30°)	376.8	1.7	B1/500		
BM (30°-60°)	522.9	2.3	B1/1000		
BH (60°-80°)	215.9	1.0	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1908.5	1908.5	1908.5	1908.5	1908.5	1908.5	1908.5	1908.5	1908.5	1908.5	1908.5
2.5°	2848.9	2784.8	2799.6	2758.2	2683.3	2529.5	2398.4	2274.2	2129.3	2124.4	2005.1
5°	3841.6	3787.4	3780.5	3696.7	3560.7	3299.4	3045.1	2755.3	2431.9	2408.3	2154.9
7.5°	4742.6	4699.2	4683.5	4583.9	4330.6	4076.2	3745.0	3319.1	2813.4	2770.1	2357.0
10°	5434.6	5413.9	5417.9	5346.9	5130.0	4893.4	4458.7	3915.5	3246.2	3179.2	2599.5
12.5°	5959.1	5964.0	5999.5	5956.1	5834.9	5659.4	5195.1	4551.4	3725.3	3633.6	2876.5
15°	6344.5	6369.2	6434.2	6488.4	6479.6	6327.8	5901.9	5197.1	4234.0	4132.4	3185.1
17.5°	6593.9	6621.5	6716.2	6836.4	6946.8	6911.3	6584.1	5820.1	4748.5	4631.2	3515.3
20°	6812.8	6845.3	6946.8	7105.5	7311.6	7355.9	7141.0	6424.4	5262.1	5119.2	3856.4
22.5°	7286.9	7285.9	7348.1	7440.7	7636.9	7751.2	7615.2	6985.3	5769.8	5621.0	4204.4
25°	8144.6	8112.0	8090.3	8017.4	8060.8	8131.7	8055.8	7509.7	6280.4	6129.6	4557.3
27.5°	9163.9	9183.6	9008.1	8811.9	8660.1	8587.2	8463.0	7995.7	6771.4	6605.8	4902.3
30°	10239.4	10245.3	10038.3	9787.9	9453.7	9176.7	8961.8	8460.0	7276.1	7095.7	5237.5
32.5°	11209.4	11170.9	10965.9	10624.8	10202.9	9891.4	9444.8	8978.5	7810.4	7635.9	5610.1
35°	11978.3	11932.9	11683.5	11373.0	10935.3	10621.8	10084.6	9496.1	8372.3	8201.7	5983.7
37.5°	12540.2	12487.0	12230.6	11911.3	11533.7	11351.3	10826.9	10059.0	8985.4	8802.1	6377.1
40°	12735.4	12689.0	12528.4	12294.7	11991.1	11949.7	11614.5	10706.6	9652.8	9457.6	6822.6
42.5°	12619.0	12573.7	12516.5	12437.7	12311.5	12350.9	12357.8	11445.0	10394.1	10201.9	7314.5
45°	12157.7	12117.3	12176.4	12291.8	12448.5	12643.7	13036.0	12238.5	11222.2	11017.1	7883.3
47.5°	11478.5	11448.9	11612.6	11900.4	12358.8	12897.0	13656.1	13072.5	12151.8	11961.5	8593.1
50°	10512.4	10507.5	10834.8	11360.2	12065.0	13019.3	14296.9	14020.8	13443.2	13243.1	9579.9
52.5°	9008.1	9018.0	9661.7	10502.6	11549.5	12936.5	14708.9	15239.3	14945.5	14737.5	10434.5
55°	7575.8	7634.9	8091.3	9303.8	10758.9	12628.9	14850.9	15808.1	15774.6	15577.4	10909.7
57.5°	6173.0	6280.4	6720.1	7852.8	9604.5	11920.1	14773.0	16054.5	16391.7	16240.8	11536.7
60°	4652.9	4702.2	5208.9	6267.6	8122.9	10626.8	14208.1	16188.6	17235.5	17131.0	12446.5
62.5°	2960.3	3083.5	3533.1	4554.3	6324.8	8830.7	13255.9	16186.6	18291.3	18348.4	13620.6
65°	1559.5	1703.4	1942.0	2822.3	4346.3	6824.6	11823.5	16034.8	19586.6	19666.4	14538.4
67.5°	840.9	882.3	1008.5	1464.9	2520.7	4623.3	9718.9	15285.6	20336.8	20442.2	14666.5
70°	615.1	637.8	685.1	810.3	1268.7	2685.3	7091.7	13587.1	19369.7	19330.3	13031.1
72.5°	472.2	507.7	543.2	593.4	729.5	1433.3	4415.3	10639.6	15455.2	15194.9	9740.6
75°	372.6	378.5	428.8	474.2	547.1	816.2	1960.7	6196.7	9433.0	8816.9	5051.2
77.5°	297.7	301.7	331.2	370.7	439.7	536.3	607.2	2437.8	3011.6	2687.3	1096.2
80°	176.5	186.3	246.4	285.9	364.7	338.1	221.8	529.4	470.2	425.9	184.3
82.5°	98.6	106.5	139.0	225.7	254.3	161.7	110.4	142.9	110.4	107.5	52.2
85°	0.0	4.9	89.7	140.0	103.5	35.5	46.3	47.3	32.5	30.6	20.7
87.5°	0.0	0.0	27.6	26.6	3.9	5.9	10.8	15.8	12.8	12.8	10.8
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°	1908.5	1908.5	1908.5	1908.5	1908.5	1908.5	1908.5	1908.5	1908.5	1908.5	1908.5
2.5°	1945.9	1892.7	1792.2	1693.6	1610.8	1542.8	1481.6	1457.0	1437.3	1434.3	1418.5
5°	2032.7	1925.2	1733.0	1575.3	1469.8	1394.9	1330.8	1291.4	1260.8	1249.0	1238.1
7.5°	2163.8	2001.1	1725.1	1543.7	1417.6	1291.4	1173.1	1044.9	965.1	934.5	916.8
10°	2323.5	2101.7	1754.7	1534.9	1314.1	1047.9	851.7	689.1	623.0	601.3	595.4
12.5°	2509.8	2226.9	1806.0	1479.7	1093.2	744.3	587.5	532.3	517.5	510.6	510.6
15°	2723.7	2363.9	1842.4	1320.0	808.3	562.9	508.7	483.0	467.3	458.4	459.4
17.5°	2942.6	2498.0	1824.7	1088.3	596.4	500.8	460.4	432.8	411.1	402.2	400.2
20°	3163.4	2622.2	1726.1	810.3	504.7	454.4	409.1	378.5	356.9	348.0	346.0
22.5°	3392.1	2727.7	1552.6	594.4	453.5	403.2	358.8	328.3	307.6	299.7	295.7
25°	3614.9	2813.4	1310.1	481.1	405.2	354.9	312.5	283.9	265.2	257.3	256.3
27.5°	3822.9	2867.7	1029.2	424.9	362.8	311.5	273.1	247.4	231.7	225.7	224.8
30°	4010.2	2872.6	761.0	383.5	325.3	274.0	238.6	215.9	202.1	196.2	194.2
32.5°	4199.4	2831.2	554.0	346.0	290.8	241.5	207.0	189.3	179.4	174.5	174.5
35°	4377.9	2735.6	431.8	313.5	257.3	210.0	182.4	169.6	163.6	158.7	158.7
37.5°	4552.4	2598.5	366.7	284.9	225.7	183.4	160.7	152.8	147.9	142.9	142.9
40°	4729.8	2426.0	333.2	258.3	200.1	162.7	142.9	136.0	131.1	127.2	126.2
42.5°	4947.7	2226.9	311.5	233.6	177.4	143.9	126.2	118.3	114.4	110.4	108.4
45°	5200.0	2055.4	293.8	209.0	158.7	128.2	109.4	101.5	95.6	90.7	89.7
47.5°	5563.8	1931.2	270.1	182.4	141.0	111.4	94.6	85.8	76.9	72.0	71.0
50°	6028.1	1828.6	239.5	158.7	123.2	94.6	78.9	68.0	60.1	55.2	55.2
52.5°	6258.8	1694.6	211.9	138.0	103.5	79.8	64.1	51.3	47.3	42.4	42.4
55°	6351.4	1592.0	184.3	117.3	85.8	66.0	50.3	39.4	36.5	33.5	32.5
57.5°	6611.7	1562.5	160.7	99.6	71.0	52.2	38.4	29.6	27.6	23.7	23.7
60°	7030.6	1577.3	139.0	84.8	57.2	40.4	28.6	22.7	20.7	16.8	16.8
62.5°	7483.1	1558.5	117.3	72.9	44.4	29.6	19.7	16.8	16.8	9.9	8.9
65°	7569.9	1388.0	100.6	60.1	34.5	21.7	12.8	10.8	14.8	2.0	0.0
67.5°	7025.7	1076.5	86.7	46.3	25.6	16.8	9.9	4.9	12.8	0.0	0.0
70°	5618.0	684.1	70.0	33.5	19.7	13.8	7.9	2.0	9.9	0.0	0.0
72.5°	3972.7	397.3	55.2	23.7	16.8	10.8	5.9	0.0	5.9	0.0	0.0
75°	2009.0	211.9	34.5	17.7	12.8	7.9	3.9	0.0	1.0	0.0	0.0
77.5°	434.7	98.6	21.7	12.8	8.9	4.9	2.0	0.0	0.0	0.0	0.0
80°	94.6	43.4	13.8	7.9	4.9	3.0	0.0	0.0	0.0	0.0	0.0
82.5°	34.5	22.7	6.9	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.7	11.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	3.9	1.0	1.0	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)