

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: P321350

Luminaire Tested: **GAN-SA6A-760-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321350
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-760-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 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: 22497 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

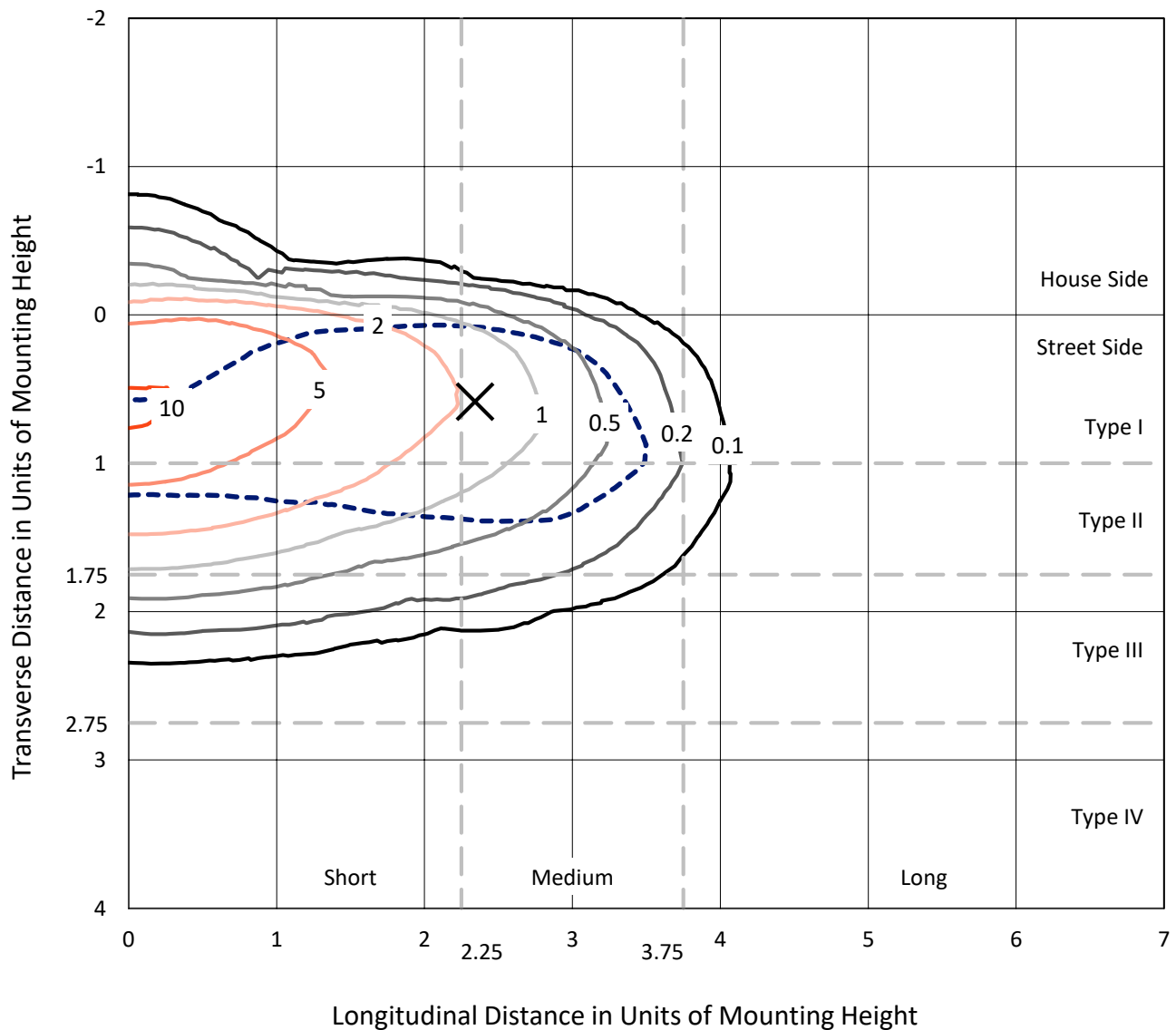
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

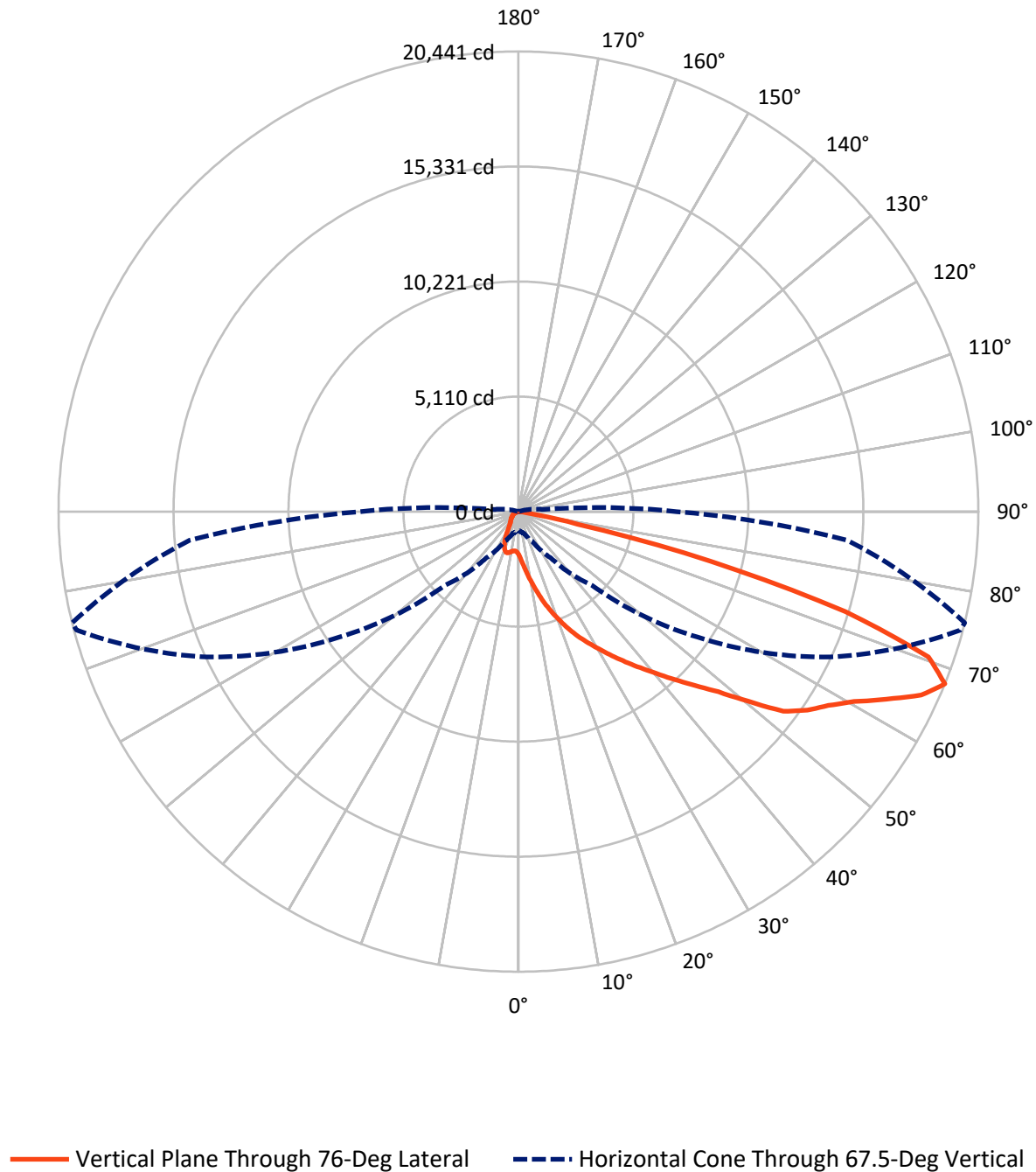
✕ Max cd
 - - - 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1117.1	0.0	1117.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	21379.8	0.0	21379.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	22497.0	0.0	22497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.3	1.1
10°-20°	940.7	4.2
20°-30°	1914.0	8.5
30°-40°	3322.2	14.8
40°-50°	4693.8	20.9
50°-60°	5323.0	23.7
60°-70°	4414.9	19.6
70°-80°	1599.2	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°	22497.0	100.0
0°-180°	22497.0	100.0

Coefficient of Utilization



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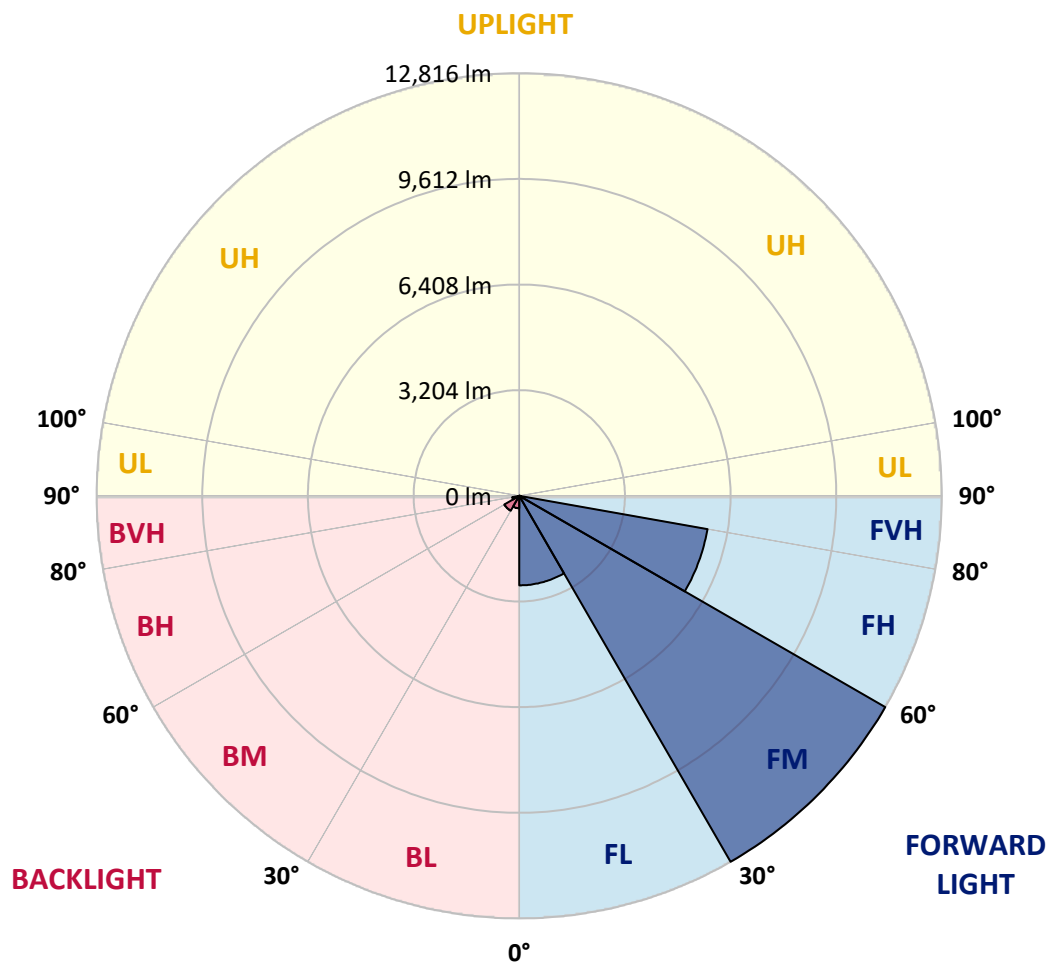
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2715.3	12.1			
FM	(30°-60°)	12816.1	57.0			
FH	(60°-80°)	5798.2	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°	1908.4	1908.4	1908.4	1908.4	1908.4	1908.4	1908.4	1908.4	1908.4	1908.4	1908.4
2.5°	2848.8	2784.7	2799.5	2758.1	2683.2	2529.4	2398.3	2274.1	2129.2	2124.3	2005.0
5°	3841.4	3787.2	3780.3	3696.5	3560.5	3299.3	3045.0	2755.1	2431.8	2408.2	2154.8
7.5°	4742.4	4699.0	4683.3	4583.7	4330.4	4076.0	3744.8	3319.0	2813.3	2769.9	2356.9
10°	5434.4	5413.7	5417.6	5346.7	5129.8	4893.2	4458.5	3915.4	3246.0	3179.0	2599.4
12.5°	5958.8	5963.7	5999.2	5955.9	5834.6	5659.1	5194.9	4551.2	3725.1	3633.4	2876.4
15°	6344.2	6368.9	6433.9	6488.2	6479.3	6327.5	5901.6	5196.8	4233.8	4132.2	3184.9
17.5°	6593.6	6621.2	6715.9	6836.1	6946.5	6911.0	6583.8	5819.8	4748.3	4631.0	3515.2
20°	6812.5	6845.0	6946.5	7105.2	7311.3	7355.6	7140.7	6424.1	5261.9	5119.0	3856.2
22.5°	7286.6	7285.6	7347.7	7440.4	7636.5	7750.9	7614.9	6985.0	5769.5	5620.7	4204.2
25°	8144.2	8111.7	8090.0	8017.0	8060.4	8131.4	8055.5	7509.4	6280.2	6129.3	4557.1
27.5°	9163.5	9183.2	9007.7	8811.6	8659.7	8586.8	8462.6	7995.4	6771.1	6605.5	4902.1
30°	10238.9	10244.8	10037.8	9787.4	9453.3	9176.3	8961.4	8459.6	7275.8	7095.4	5237.2
32.5°	11208.9	11170.4	10965.4	10624.3	10202.4	9890.9	9444.4	8978.1	7810.0	7635.6	5609.9
35°	11977.8	11932.4	11683.0	11372.5	10934.8	10621.4	10084.1	9495.7	8371.9	8201.4	5983.5
37.5°	12539.6	12486.4	12230.1	11910.7	11533.2	11350.8	10826.4	10058.5	8985.0	8801.7	6376.8
40°	12734.8	12688.5	12527.8	12294.2	11990.6	11949.2	11614.0	10706.1	9652.4	9457.2	6822.3
42.5°	12618.5	12573.1	12516.0	12437.1	12310.9	12350.4	12357.3	11444.5	10393.7	10201.4	7314.2
45°	12157.2	12116.7	12175.9	12291.2	12448.0	12643.1	13035.5	12238.0	11221.7	11016.7	7883.0
47.5°	11478.0	11448.4	11612.0	11899.9	12358.3	12896.5	13655.5	13071.9	12151.2	11961.0	8592.7
50°	10512.0	10507.0	10834.3	11359.7	12064.5	13018.7	14296.2	14020.2	13442.6	13242.5	9579.4
52.5°	9007.7	9017.6	9661.3	10502.1	11549.0	12935.9	14708.3	15238.6	14944.8	14736.8	10434.1
55°	7575.4	7634.6	8091.0	9303.4	10758.4	12628.3	14850.2	15807.4	15773.8	15576.7	10909.2
57.5°	6172.7	6280.2	6719.8	7852.4	9604.1	11919.6	14772.3	16053.8	16390.9	16240.1	11536.1
60°	4652.7	4702.0	5208.7	6267.3	8122.5	10626.3	14207.5	16187.9	17234.7	17130.2	12446.0
62.5°	2960.2	3083.4	3532.9	4554.1	6324.5	8830.3	13255.3	16185.9	18290.4	18347.6	13620.0
65°	1559.4	1703.4	1941.9	2822.2	4346.1	6824.3	11823.0	16034.1	19585.7	19665.6	14537.7
67.5°	840.8	882.2	1008.4	1464.8	2520.5	4623.1	9718.4	15284.9	20335.9	20441.3	14665.9
70°	615.1	637.8	685.1	810.3	1268.7	2685.2	7091.4	13586.5	19368.9	19329.4	13030.5
72.5°	472.2	507.7	543.1	593.4	729.4	1433.3	4415.1	10639.1	15454.5	15194.2	9740.1
75°	372.6	378.5	428.8	474.1	547.1	816.2	1960.6	6196.4	9432.6	8816.5	5050.9
77.5°	297.7	301.6	331.2	370.6	439.6	536.2	607.2	2437.7	3011.4	2687.1	1096.1
80°	176.4	186.3	246.4	285.9	364.7	338.1	221.8	529.3	470.2	425.8	184.3
82.5°	98.6	106.5	139.0	225.7	254.3	161.7	110.4	142.9	110.4	107.4	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°	1908.4	1908.4	1908.4	1908.4	1908.4	1908.4	1908.4	1908.4	1908.4	1908.4	1908.4
2.5°	1945.9	1892.6	1792.1	1693.5	1610.7	1542.7	1481.6	1456.9	1437.2	1434.3	1418.5
5°	2032.6	1925.2	1732.9	1575.2	1469.7	1394.8	1330.8	1291.3	1260.8	1248.9	1238.1
7.5°	2163.7	2001.1	1725.0	1543.7	1417.5	1291.3	1173.0	1044.9	965.0	934.5	916.7
10°	2323.4	2101.6	1754.6	1534.8	1314.0	1047.8	851.7	689.0	623.0	601.3	595.4
12.5°	2509.7	2226.8	1805.9	1479.6	1093.2	744.2	587.5	532.3	517.5	510.6	510.6
15°	2723.6	2363.8	1842.4	1319.9	808.3	562.9	508.6	483.0	467.2	458.4	459.4
17.5°	2942.4	2497.9	1824.6	1088.3	596.4	500.8	460.3	432.7	411.1	402.2	400.2
20°	3163.2	2622.1	1726.0	810.3	504.7	454.4	409.1	378.5	356.8	348.0	346.0
22.5°	3391.9	2727.5	1552.5	594.4	453.4	403.2	358.8	328.3	307.6	299.7	295.7
25°	3614.7	2813.3	1310.1	481.0	405.1	354.9	312.5	283.9	265.2	257.3	256.3
27.5°	3822.7	2867.5	1029.1	424.9	362.8	311.5	273.1	247.4	231.6	225.7	224.7
30°	4010.0	2872.5	761.0	383.5	325.3	274.0	238.5	215.9	202.1	196.2	194.2
32.5°	4199.3	2831.1	554.0	346.0	290.8	241.5	207.0	189.3	179.4	174.5	174.5
35°	4377.7	2735.4	431.8	313.5	257.3	210.0	182.4	169.5	163.6	158.7	158.7
37.5°	4552.2	2598.4	366.7	284.9	225.7	183.3	160.7	152.8	147.9	142.9	142.9
40°	4729.6	2425.9	333.2	258.3	200.1	162.6	142.9	136.0	131.1	127.2	126.2
42.5°	4947.4	2226.8	311.5	233.6	177.4	143.9	126.2	118.3	114.3	110.4	108.4
45°	5199.8	2055.3	293.8	209.0	158.7	128.1	109.4	101.5	95.6	90.7	89.7
47.5°	5563.5	1931.1	270.1	182.4	141.0	111.4	94.6	85.8	76.9	72.0	71.0
50°	6027.8	1828.6	239.5	158.7	123.2	94.6	78.9	68.0	60.1	55.2	55.2
52.5°	6258.5	1694.5	211.9	138.0	103.5	79.8	64.1	51.3	47.3	42.4	42.4
55°	6351.1	1592.0	184.3	117.3	85.8	66.0	50.3	39.4	36.5	33.5	32.5
57.5°	6611.4	1562.4	160.7	99.6	71.0	52.2	38.4	29.6	27.6	23.7	23.7
60°	7030.3	1577.2	139.0	84.8	57.2	40.4	28.6	22.7	20.7	16.8	16.8
62.5°	7482.8	1558.5	117.3	72.9	44.4	29.6	19.7	16.8	16.8	9.9	8.9
65°	7569.5	1387.9	100.5	60.1	34.5	21.7	12.8	10.8	14.8	2.0	0.0
67.5°	7025.4	1076.4	86.7	46.3	25.6	16.8	9.9	4.9	12.8	0.0	0.0
70°	5617.7	684.1	70.0	33.5	19.7	13.8	7.9	2.0	9.9	0.0	0.0
72.5°	3972.5	397.3	55.2	23.7	16.8	10.8	5.9	0.0	5.9	0.0	0.0
75°	2008.9	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)