

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: P321358

Luminaire Tested: **GAN-SA4B-760-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321358
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-SA4B-760-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA 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: 18607 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

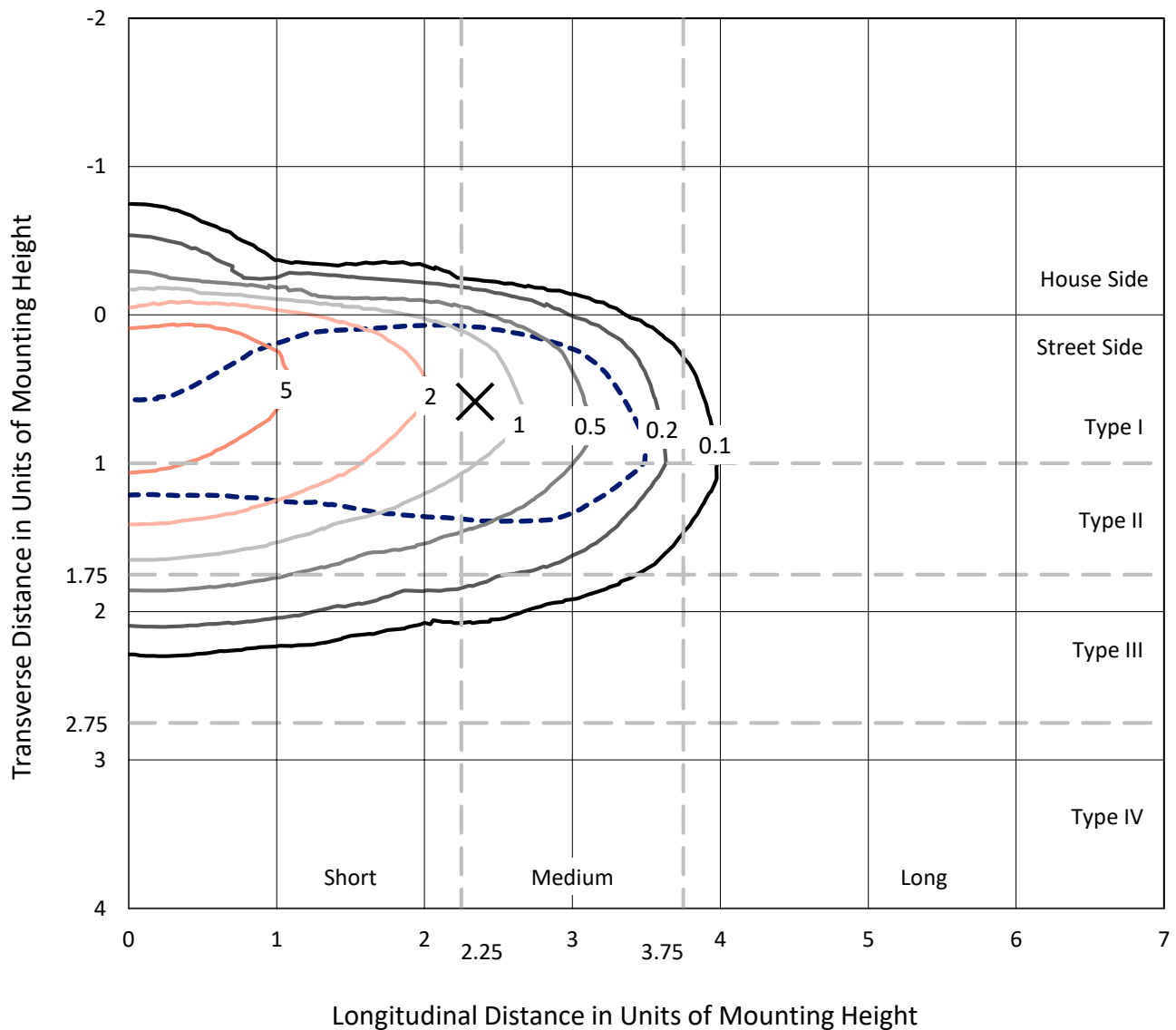
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

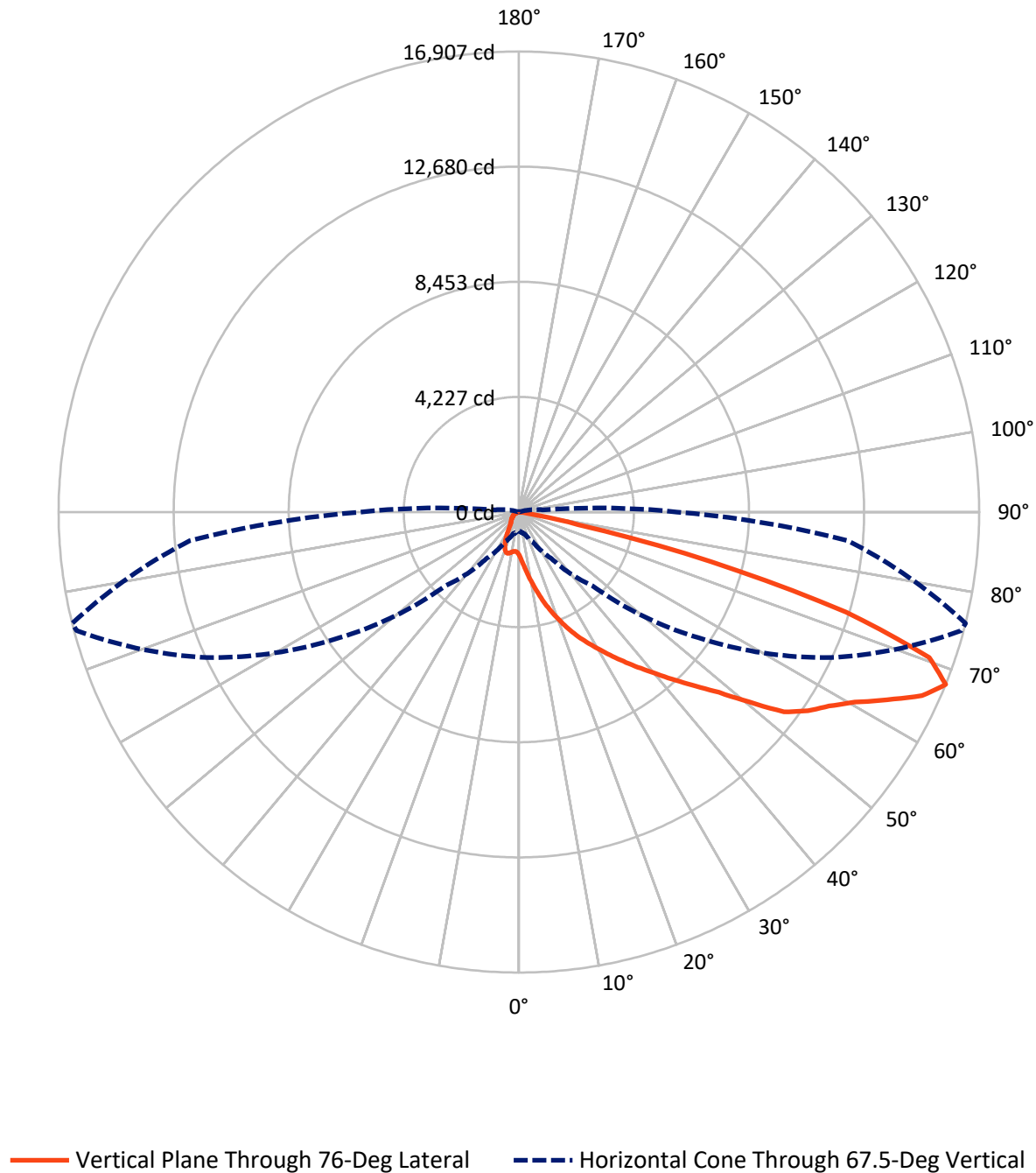
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	924.0	0.0	924.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	17683.0	0.0	17683.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	18607.0	0.0	18607.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.3	1.1
10°-20°	778.1	4.2
20°-30°	1583.1	8.5
30°-40°	2747.7	14.8
40°-50°	3882.2	20.9
50°-60°	4402.6	23.7
60°-70°	3651.5	19.6
70°-80°	1322.7	7.1
80°-90°	42.9	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°	18607.0	100.0
0°-180°	18607.0	100.0

Coefficient of Utilization



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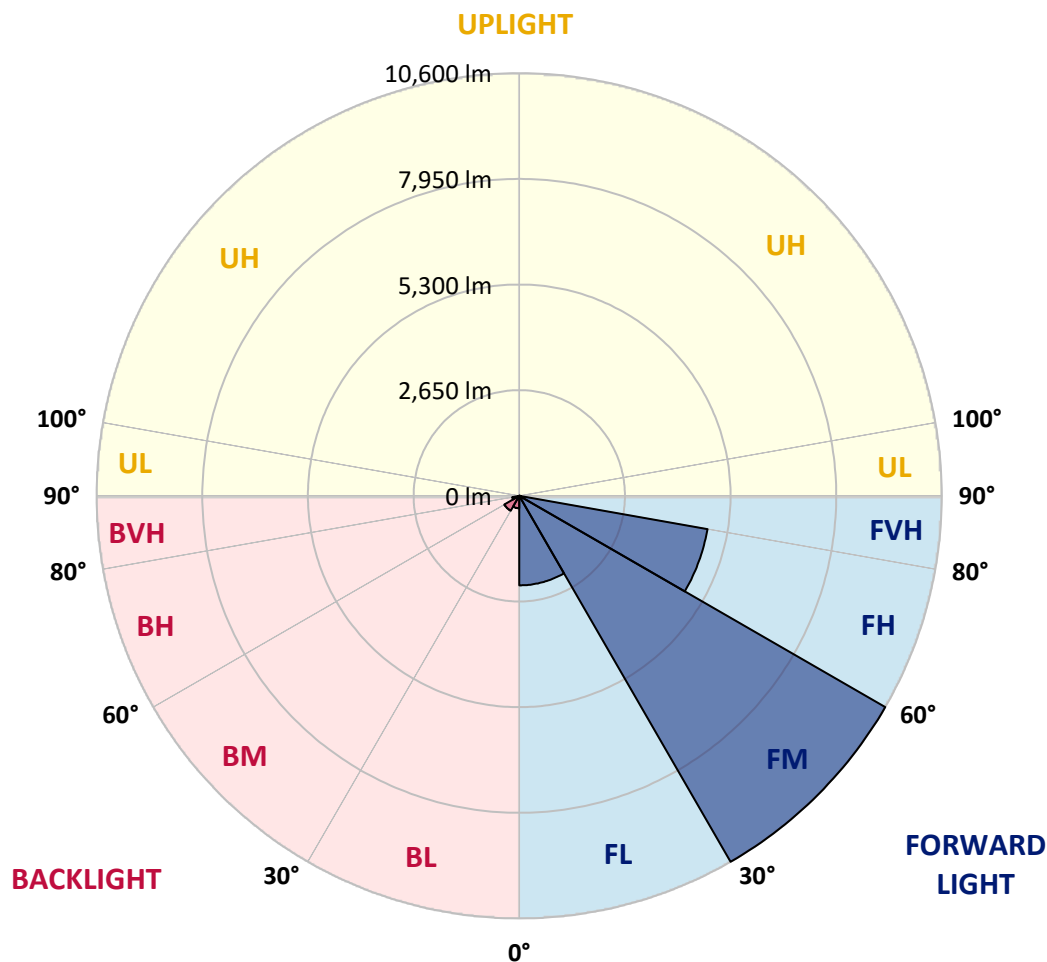
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2245.8	12.1			
FM	(30°-60°)	10600.0	57.0			
FH	(60°-80°)	4795.6	25.8			G2/5000
FVH	(80°-90°)	41.5	0.2			G1/100
BL	(0°-30°)	311.6	1.7	B1/500		
BM	(30°-60°)	432.4	2.3	B1/1000		
BH	(60°-80°)	178.6	1.0	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: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1578.4	1578.4	1578.4	1578.4	1578.4	1578.4	1578.4	1578.4	1578.4	1578.4	1578.4
2.5°	2356.2	2303.2	2315.4	2281.2	2219.2	2092.0	1983.6	1880.9	1761.0	1757.0	1658.3
5°	3177.2	3132.4	3126.7	3057.4	2944.8	2728.8	2518.4	2278.8	2011.3	1991.8	1782.2
7.5°	3922.4	3886.5	3873.5	3791.1	3581.6	3371.2	3097.3	2745.1	2326.9	2291.0	1949.4
10°	4494.7	4477.6	4480.9	4422.2	4242.8	4047.1	3687.6	3238.4	2684.8	2629.3	2149.9
12.5°	4928.5	4932.5	4961.9	4926.0	4825.7	4680.6	4296.6	3764.2	3081.0	3005.2	2379.0
15°	5247.2	5267.6	5321.4	5366.3	5358.9	5233.4	4881.2	4298.2	3501.7	3417.7	2634.2
17.5°	5453.5	5476.3	5554.6	5654.1	5745.4	5716.0	5445.4	4813.5	3927.3	3830.3	2907.3
20°	5634.5	5661.4	5745.4	5876.7	6047.0	6083.7	5906.0	5313.3	4352.0	4233.8	3189.4
22.5°	6026.7	6025.9	6077.2	6153.9	6316.1	6410.7	6298.2	5777.2	4771.9	4648.8	3477.2
25°	6736.0	6709.1	6691.1	6630.8	6666.7	6725.4	6662.6	6210.9	5194.2	5069.5	3769.1
27.5°	7579.0	7595.3	7450.2	7287.9	7162.4	7102.0	6999.3	6612.9	5600.3	5463.3	4054.5
30°	8468.5	8473.4	8302.2	8095.1	7818.7	7589.6	7411.9	6996.9	6017.7	5868.5	4331.7
32.5°	9270.7	9238.9	9069.3	8787.3	8438.3	8180.7	7811.3	7425.7	6459.6	6315.3	4639.8
35°	9906.7	9869.2	9662.9	9406.1	9044.1	8784.8	8340.5	7853.7	6924.3	6783.3	4948.8
37.5°	10371.4	10327.4	10115.4	9851.2	9539.0	9388.1	8954.4	8319.3	7431.4	7279.8	5274.1
40°	10532.8	10494.5	10361.6	10168.4	9917.3	9883.0	9605.8	8854.9	7983.4	7821.9	5642.7
42.5°	10436.6	10399.1	10351.8	10286.6	10182.2	10214.8	10220.5	9465.6	8596.5	8437.5	6049.5
45°	10055.0	10021.6	10070.5	10165.9	10295.6	10457.0	10781.5	10121.9	9281.3	9111.7	6519.9
47.5°	9493.3	9468.8	9604.2	9842.2	10221.4	10666.5	11294.3	10811.6	10050.2	9892.8	7106.9
50°	8694.3	8690.2	8960.9	9395.5	9978.4	10767.6	11824.2	11596.0	11118.2	10952.7	7923.0
52.5°	7450.2	7458.3	7990.7	8686.2	9552.0	10699.1	12165.0	12603.7	12360.7	12188.7	8629.9
55°	6265.5	6314.5	6691.9	7694.8	8898.1	10444.8	12282.4	13074.1	13046.4	12883.3	9022.9
57.5°	5105.4	5194.2	5557.9	6494.6	7943.4	9858.6	12218.0	13277.9	13556.7	13432.0	9541.4
60°	3848.2	3889.0	4308.0	5183.7	6718.0	8788.9	11750.9	13388.8	14254.6	14168.2	10293.9
62.5°	2448.3	2550.2	2922.0	3766.7	5230.9	7303.4	10963.3	13387.2	15127.8	15175.1	11264.9
65°	1289.8	1408.8	1606.1	2334.2	3594.6	5644.3	9778.7	13261.6	16199.1	16265.1	12024.0
67.5°	695.4	729.7	834.0	1211.5	2084.7	3823.7	8038.0	12642.0	16819.6	16906.8	12130.0
70°	508.7	527.5	566.6	670.2	1049.3	2220.9	5865.2	11237.2	16019.7	15987.1	10777.4
72.5°	390.5	419.9	449.2	490.8	603.3	1185.4	3651.7	8799.5	12782.2	12567.0	8055.9
75°	308.2	313.1	354.7	392.2	452.5	675.1	1621.6	5124.9	7801.6	7292.0	4177.6
77.5°	246.2	249.5	273.9	306.6	363.6	443.5	502.2	2016.2	2490.7	2222.5	906.6
80°	145.9	154.1	203.8	236.4	301.7	279.6	183.4	437.8	388.9	352.2	152.5
82.5°	81.5	88.1	115.0	186.7	210.3	133.7	91.3	118.2	91.3	88.9	43.2
85°	0.0	4.1	74.2	115.8	85.6	29.4	38.3	39.1	26.9	25.3	17.1
87.5°	0.0	0.0	22.8	22.0	3.3	4.9	9.0	13.0	10.6	10.6	9.0
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°	1578.4	1578.4	1578.4	1578.4	1578.4	1578.4	1578.4	1578.4	1578.4	1578.4	1578.4
2.5°	1609.4	1565.4	1482.2	1400.7	1332.2	1275.9	1225.4	1205.0	1188.7	1186.3	1173.2
5°	1681.1	1592.3	1433.3	1302.8	1215.6	1153.6	1100.6	1068.0	1042.8	1033.0	1024.0
7.5°	1789.6	1655.1	1426.8	1276.8	1172.4	1068.0	970.2	864.2	798.2	772.9	758.2
10°	1921.7	1738.2	1451.2	1269.4	1086.8	866.7	704.4	569.9	515.3	497.3	492.4
12.5°	2075.7	1841.8	1493.6	1223.8	904.2	615.5	485.9	440.3	428.0	422.3	422.3
15°	2252.7	1955.1	1523.8	1091.7	668.5	465.5	420.7	399.5	386.5	379.1	379.9
17.5°	2433.7	2066.0	1509.1	900.1	493.3	414.2	380.7	357.9	340.0	332.6	331.0
20°	2616.3	2168.7	1427.6	670.2	417.4	375.9	338.3	313.1	295.1	287.8	286.2
22.5°	2805.4	2255.9	1284.1	491.6	375.0	333.5	296.8	271.5	254.4	247.8	244.6
25°	2989.7	2326.9	1083.5	397.9	335.1	293.5	258.4	234.8	219.3	212.8	212.0
27.5°	3161.7	2371.7	851.2	351.4	300.0	257.6	225.8	204.6	191.6	186.7	185.9
30°	3316.6	2375.8	629.4	317.2	269.0	226.7	197.3	178.5	167.1	162.2	160.6
32.5°	3473.2	2341.5	458.2	286.2	240.5	199.7	171.2	156.5	148.4	144.3	144.3
35°	3620.7	2262.4	357.1	259.3	212.8	173.7	150.8	140.2	135.3	131.3	131.3
37.5°	3765.0	2149.1	303.3	235.6	186.7	151.6	132.9	126.4	122.3	118.2	118.2
40°	3911.8	2006.4	275.6	213.6	165.5	134.5	118.2	112.5	108.4	105.2	104.4
42.5°	4092.0	1841.8	257.6	193.2	146.8	119.0	104.4	97.8	94.6	91.3	89.7
45°	4300.7	1699.9	243.0	172.8	131.3	106.0	90.5	84.0	79.1	75.0	74.2
47.5°	4601.5	1597.2	223.4	150.8	116.6	92.1	78.3	70.9	63.6	59.5	58.7
50°	4985.5	1512.4	198.1	131.3	101.9	78.3	65.2	56.3	49.7	45.7	45.7
52.5°	5176.3	1401.5	175.3	114.1	85.6	66.0	53.0	42.4	39.1	35.1	35.1
55°	5253.0	1316.7	152.5	97.0	70.9	54.6	41.6	32.6	30.2	27.7	26.9
57.5°	5468.2	1292.2	132.9	82.3	58.7	43.2	31.8	24.5	22.8	19.6	19.6
60°	5814.7	1304.5	115.0	70.1	47.3	33.4	23.6	18.8	17.1	13.9	13.9
62.5°	6188.9	1289.0	97.0	60.3	36.7	24.5	16.3	13.9	13.9	8.2	7.3
65°	6260.7	1147.9	83.2	49.7	28.5	17.9	10.6	9.0	12.2	1.6	0.0
67.5°	5810.6	890.3	71.7	38.3	21.2	13.9	8.2	4.1	10.6	0.0	0.0
70°	4646.4	565.8	57.9	27.7	16.3	11.4	6.5	1.6	8.2	0.0	0.0
72.5°	3285.6	328.6	45.7	19.6	13.9	9.0	4.9	0.0	4.9	0.0	0.0
75°	1661.6	175.3	28.5	14.7	10.6	6.5	3.3	0.0	0.8	0.0	0.0
77.5°	359.5	81.5	17.9	10.6	7.3	4.1	1.6	0.0	0.0	0.0	0.0
80°	78.3	35.9	11.4	6.5	4.1	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	28.5	18.8	5.7	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.5	9.8	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	3.3	0.8	0.8	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)