

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: P323694

Luminaire Tested: **GAN-SA0C-830-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47528 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

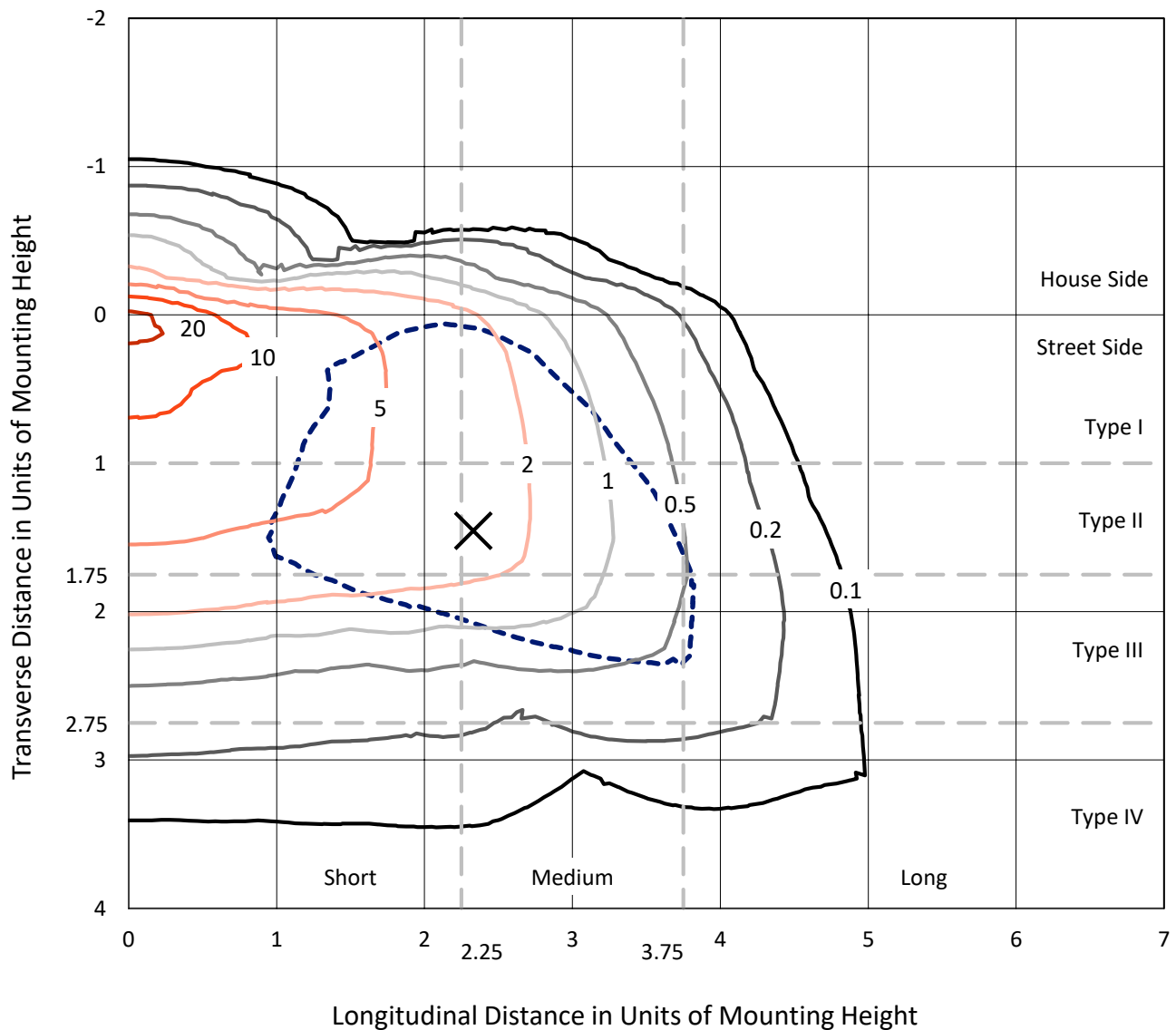
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

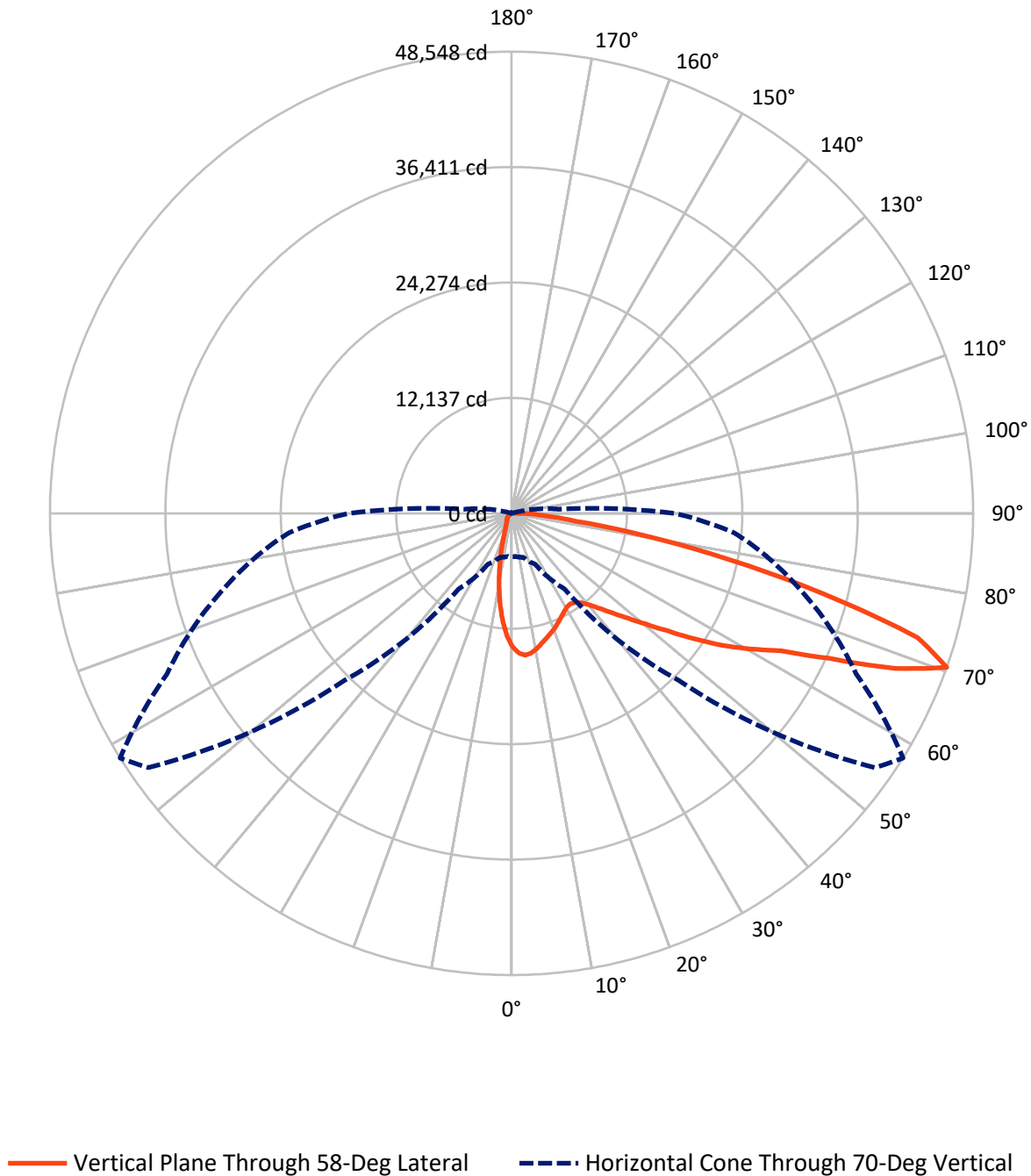
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4067.3	0.0	4067.3
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	43460.7	0.0	43460.7
	% Fixture	91.4	0.0	91.4
Total	Lumens	47528.0	0.0	47528.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1148.1	2.4
10°-20°	2409.5	5.1
20°-30°	3167.7	6.7
30°-40°	4195.3	8.8
40°-50°	6270.7	13.2
50°-60°	10045.4	21.1
60°-70°	12662.1	26.6
70°-80°	6829.9	14.4
80°-90°	799.5	1.7
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°	47528.0	100.0
0°-180°	47528.0	100.0

Coefficient of Utilization



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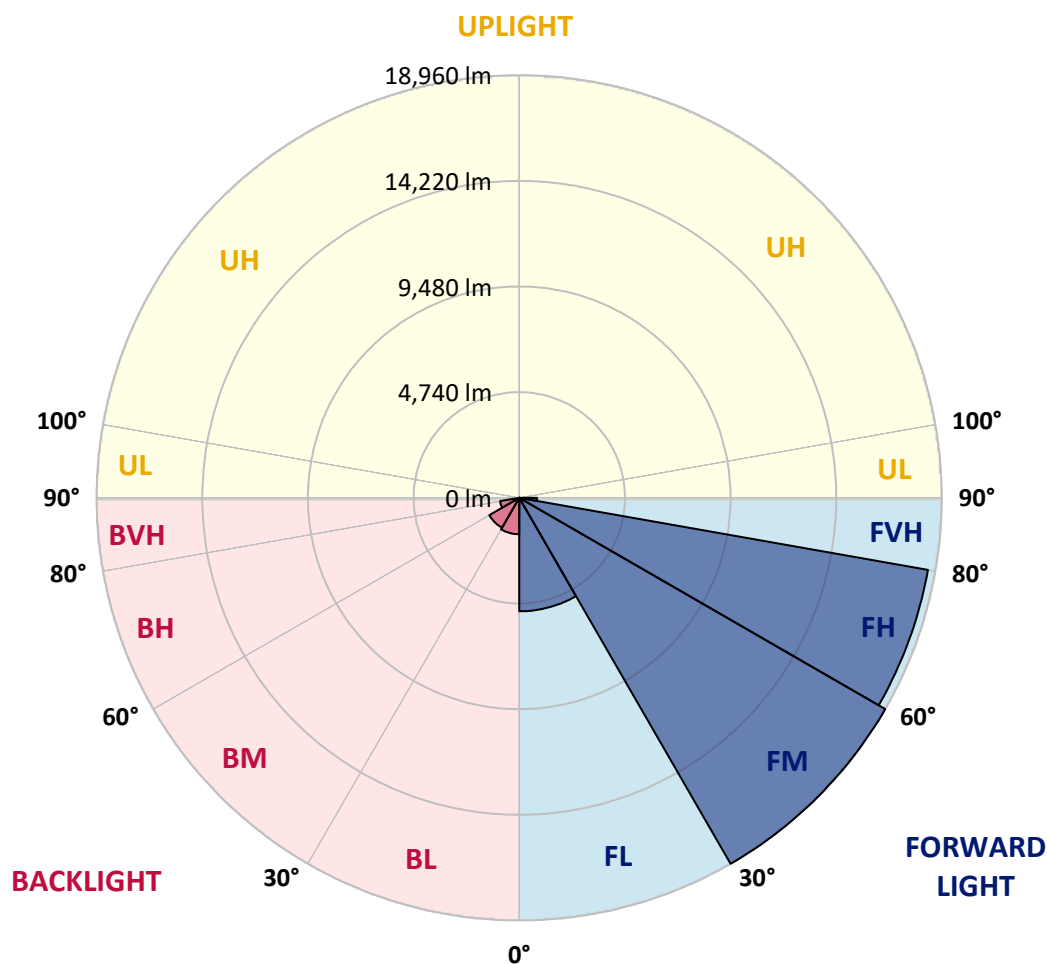
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5091.2	10.7			
FM	(30°-60°)	18959.7	39.9			
FH	(60°-80°)	18617.2	39.2			G5
FVH	(80°-90°)	792.6	1.7			G5
BL	(0°-30°)	1634.1	3.4	B3/2500		
BM	(30°-60°)	1551.6	3.3	B2/2500		
BH	(60°-80°)	874.7	1.8	B2/1000		G2/1000
BVH	(80°-90°)	6.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	14039.5	14039.5	14039.5	14039.5	14039.5	14039.5	14039.5	14039.5	14039.5	14039.5	14039.5
2.5°	15203.6	15166.0	15152.2	15128.5	15037.6	14948.6	14772.7	14723.3	14612.7	14349.8	14071.2
5°	15215.4	15213.5	15255.0	15245.1	15213.5	15172.0	15045.5	14980.3	14792.5	14417.0	13907.1
7.5°	14482.2	14519.8	14612.7	14687.8	14774.7	14887.4	14903.2	14839.9	14685.8	14280.7	13604.8
10°	13498.0	13557.3	13687.8	13836.0	14063.3	14288.6	14490.1	14482.2	14428.9	14029.7	13241.1
12.5°	12511.9	12581.0	12731.2	12950.6	13272.7	13640.3	14000.0	14049.4	14138.4	13804.4	12905.2
15°	11648.2	11707.5	11855.7	12124.5	12523.7	13017.8	13545.5	13636.4	13865.6	13628.5	12624.5
17.5°	10915.0	10952.6	11061.3	11359.7	11822.2	12421.0	13106.7	13284.6	13626.5	13490.1	12381.4
20°	10403.2	10409.1	10480.3	10689.7	11152.2	11822.2	12652.2	12907.1	13373.5	13371.6	12130.5
22.5°	10150.2	10130.4	10144.3	10264.8	10604.8	11251.0	12197.6	12500.0	13146.3	13270.8	11875.5
25°	10102.8	10087.0	10047.4	10063.3	10268.8	10751.0	11739.1	12089.0	12946.7	13209.5	11654.2
27.5°	10251.0	10266.8	10199.6	10128.5	10144.3	10426.9	11332.0	11737.2	12784.6	13209.5	11498.0
30°	10549.4	10557.3	10507.9	10415.0	10290.5	10336.0	11049.4	11454.6	12703.6	13300.4	11399.2
32.5°	10879.5	10922.9	10917.0	10841.9	10664.0	10480.3	10982.2	11351.8	12697.6	13502.0	11389.3
35°	11288.6	11338.0	11421.0	11405.2	11219.4	10917.0	11211.5	11502.0	12814.2	13834.0	11496.1
37.5°	11723.3	11798.4	11976.3	12061.3	11940.7	11598.8	11725.3	11932.8	13126.5	14371.6	11766.8
40°	12144.3	12229.3	12553.4	12887.4	12796.5	12444.7	12504.0	12670.0	13681.8	15144.3	12280.7
42.5°	12557.3	12683.8	13160.1	13709.5	13818.2	13537.6	13569.2	13701.6	14506.0	16207.5	13120.6
45°	13051.4	13193.7	13899.2	14577.1	14867.6	14745.1	14879.5	14966.4	15583.0	17612.7	14253.0
47.5°	13776.7	13940.7	14806.3	15579.1	16089.0	16168.0	16438.8	16496.1	16944.7	19249.0	15729.3
50°	15191.7	15237.2	16019.8	16721.4	17456.5	17930.9	18239.2	18282.6	18592.9	21037.6	17573.1
52.5°	16972.4	17002.0	17444.7	17915.0	18751.0	19719.4	20440.7	20502.0	20567.2	22780.7	19393.3
55°	18741.1	18737.2	19029.7	19306.4	20262.9	21670.0	23235.2	23272.8	22804.4	24434.8	20784.6
57.5°	19845.9	19952.6	20397.3	20753.0	22089.0	23893.3	26065.3	26203.6	25154.2	25660.1	22160.1
60°	19494.1	19545.5	20531.7	21847.9	24363.7	27053.4	28928.9	28964.5	26921.0	26883.4	23899.2
62.5°	16608.7	16636.4	18185.8	20899.2	25515.8	31152.2	32383.4	31804.4	28952.6	28581.1	25980.3
65°	11383.4	11563.3	12857.7	16211.5	23399.2	33723.4	37731.3	36772.8	32049.5	31027.7	27861.7
67.5°	6703.6	6666.0	7306.3	9776.7	17185.8	32015.9	44496.1	43543.5	36272.8	32666.1	27310.3
70°	4579.1	4553.4	4798.4	5919.0	9701.6	24836.0	46624.6	48547.5	40002.0	31563.3	23504.0
72.5°	3268.8	3282.6	3644.3	4598.8	6090.9	14470.4	40094.9	44646.3	38834.0	27515.9	17865.6
75°	2219.4	2256.9	2774.7	3772.7	5339.9	7361.7	28452.6	33938.8	31622.6	19998.1	10268.8
77.5°	1193.7	1235.2	1845.9	3039.5	4828.1	5114.6	18302.4	23357.7	19863.7	8990.1	2976.3
80°	498.0	521.7	863.6	2209.5	4171.9	4492.1	10768.8	14164.1	8464.4	1772.7	664.0
82.5°	215.4	227.3	359.7	1318.2	3118.6	3792.5	5701.6	6814.2	2565.2	389.3	334.0
85°	41.5	43.5	148.2	697.6	1990.1	2140.3	3695.7	3622.5	1152.2	168.0	243.1
87.5°	0.0	0.0	35.6	219.4	585.0	1166.0	2254.9	2227.3	391.3	81.0	90.9
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°	14039.5	14039.5	14039.5	14039.5	14039.5	14039.5	14039.5	14039.5	14039.5	14039.5	14039.5
2.5°	13928.9	13792.5	13505.9	13152.2	12881.4	12583.0	12345.9	12045.5	11915.0	11921.0	11849.8
5°	13616.6	13336.0	12701.6	11901.2	11284.6	10648.2	10100.8	9555.3	9233.2	9128.5	9029.7
7.5°	13170.0	12725.3	11713.5	10480.3	9436.8	8417.0	7529.7	6749.0	6254.9	6013.8	5924.9
10°	12666.0	12041.5	10577.1	8952.6	7462.5	6083.0	4932.8	3932.8	3533.6	3262.9	3193.7
12.5°	12223.3	11377.5	9466.4	7385.4	5616.6	3952.6	2855.7	2233.2	1962.5	1855.7	1837.9
15°	11806.3	10756.9	8397.2	5966.4	3889.3	2432.8	1816.2	1604.7	1541.5	1523.7	1523.7
17.5°	11413.1	10166.0	7351.8	4569.2	2573.1	1705.5	1504.0	1456.5	1436.8	1434.8	1436.8
20°	11002.0	9575.1	6324.1	3347.8	1796.4	1444.7	1389.3	1363.6	1357.7	1357.7	1357.7
22.5°	10608.7	8984.2	5324.1	2391.3	1440.7	1318.2	1290.5	1272.7	1266.8	1264.8	1260.9
25°	10231.2	8422.9	4347.8	1689.7	1264.8	1207.5	1183.8	1160.1	1142.3	1132.4	1126.5
27.5°	9921.0	7922.9	3438.7	1355.7	1142.3	1092.9	1063.2	1027.7	984.2	964.4	956.5
30°	9673.9	7466.4	2650.2	1144.3	1027.7	978.3	932.8	871.5	808.3	774.7	772.7
32.5°	9480.3	7017.8	2011.9	1011.9	924.9	863.6	798.4	721.3	648.2	610.7	608.7
35°	9385.4	6622.5	1537.6	915.0	834.0	756.9	675.9	590.9	519.8	484.2	480.2
37.5°	9448.6	6288.5	1199.6	834.0	756.9	668.0	573.1	484.2	420.9	389.3	387.4
40°	9679.9	6075.1	974.3	764.8	691.7	583.0	480.2	397.2	343.9	318.2	316.2
42.5°	10172.0	5996.1	832.0	707.5	628.5	504.0	399.2	328.1	278.7	260.9	256.9
45°	10994.1	6112.7	735.2	652.2	563.2	428.9	330.0	268.8	225.3	211.5	209.5
47.5°	12089.0	6419.0	666.0	598.8	504.0	361.7	274.7	217.4	183.8	170.0	168.0
50°	13500.0	6905.1	608.7	545.5	448.6	306.3	227.3	171.9	142.3	132.4	132.4
52.5°	15035.6	7484.2	557.3	496.0	393.3	254.9	183.8	132.4	112.6	100.8	100.8
55°	16304.4	7990.1	502.0	458.5	326.1	211.5	140.3	100.8	83.0	77.1	77.1
57.5°	17571.2	8529.7	438.7	393.3	260.9	171.9	106.7	75.1	61.3	57.3	57.3
60°	19213.5	9189.7	377.5	320.2	205.5	130.4	79.1	53.4	45.5	43.5	43.5
62.5°	21019.8	9577.1	322.1	256.9	160.1	96.8	57.3	35.6	33.6	33.6	31.6
65°	22124.5	9029.7	270.8	205.5	124.5	73.1	37.5	25.7	29.6	27.7	23.7
67.5°	20715.4	7069.2	221.3	160.1	96.8	55.3	23.7	17.8	31.6	25.7	19.8
70°	17152.2	4948.6	171.9	112.6	77.1	47.4	15.8	11.9	33.6	25.7	15.8
72.5°	12836.0	3312.3	136.4	75.1	57.3	41.5	13.8	5.9	29.6	21.7	13.8
75°	7013.8	1334.0	108.7	47.4	35.6	29.6	9.9	4.0	19.8	15.8	9.9
77.5°	1845.9	351.8	79.1	31.6	19.8	11.9	5.9	2.0	9.9	7.9	4.0
80°	470.4	136.4	51.4	21.7	13.8	5.9	0.0	0.0	2.0	0.0	0.0
82.5°	251.0	57.3	31.6	15.8	7.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	189.7	37.5	17.8	9.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	73.1	11.9	5.9	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)