

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: P323618

Luminaire Tested: **GAN-SA4D-760-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323618
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-SA4D-760-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1200mA 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: 26739 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

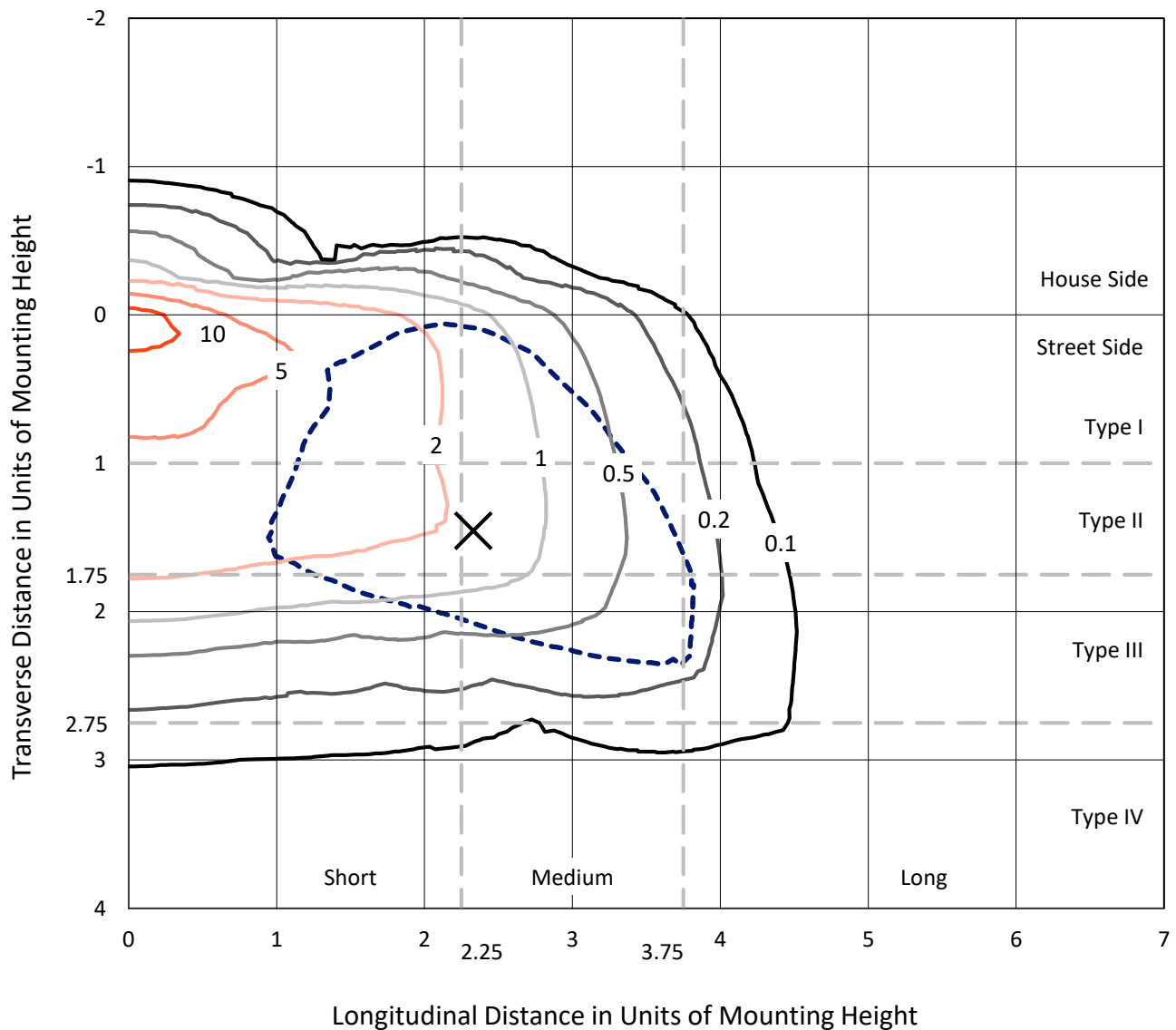
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

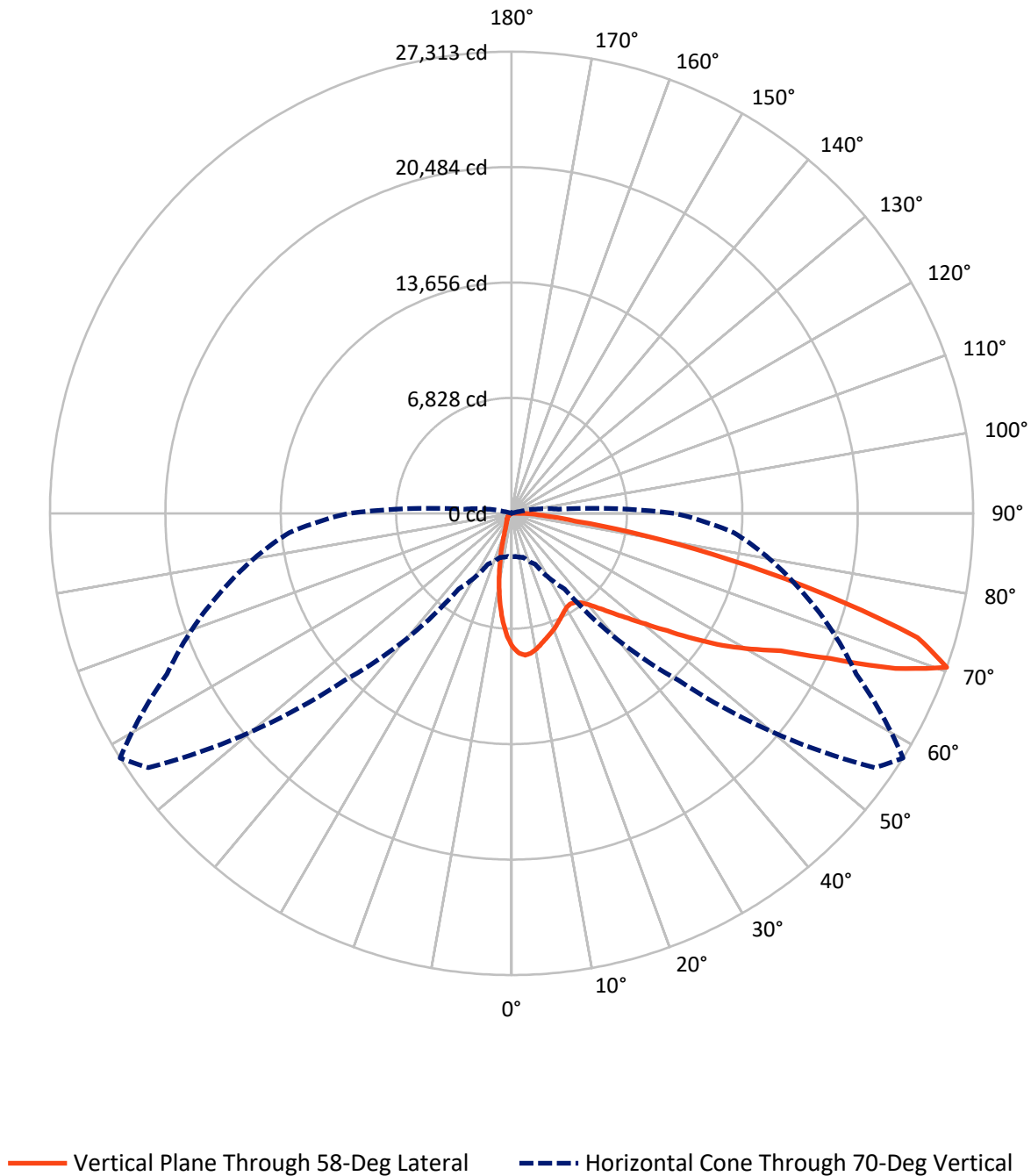
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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	2288.3	0.0	2288.3
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	24450.7	0.0	24450.7
	% Fixture	91.4	0.0	91.4
Total	Lumens	26739.0	0.0	26739.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.9	2.4
10°-20°	1355.6	5.1
20°-30°	1782.1	6.7
30°-40°	2360.2	8.8
40°-50°	3527.8	13.2
50°-60°	5651.5	21.1
60°-70°	7123.6	26.6
70°-80°	3842.4	14.4
80°-90°	449.8	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°	26739.0	100.0
0°-180°	26739.0	100.0

Coefficient of Utilization



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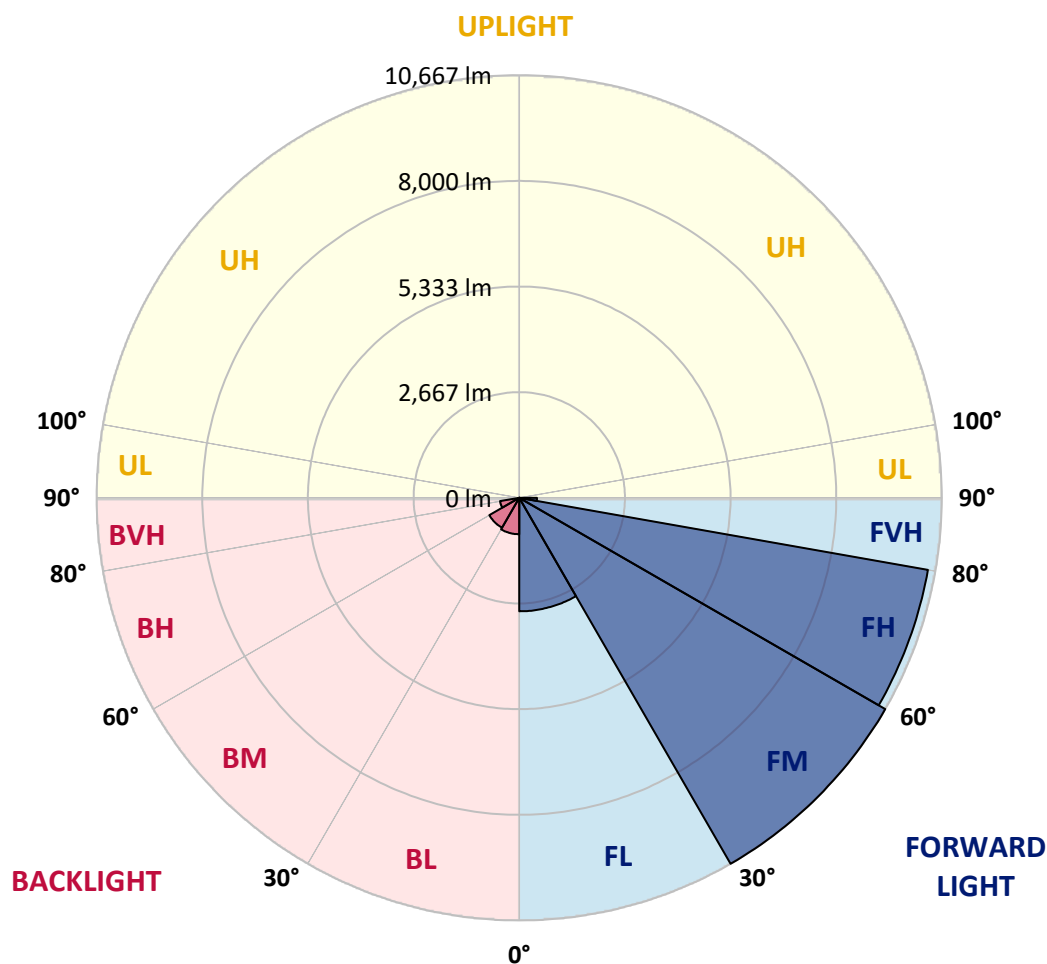
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2864.3	10.7			
FM	(30°-60°)	10666.6	39.9			
FH	(60°-80°)	10473.9	39.2			G4/12000
FVH	(80°-90°)	445.9	1.7			G3/500
BL	(0°-30°)	919.3	3.4	B2/1000		
BM	(30°-60°)	872.9	3.3	B1/1000		
BH	(60°-80°)	492.1	1.8	B1/500		G1/500
BVH	(80°-90°)	3.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7898.6	7898.6	7898.6	7898.6	7898.6	7898.6	7898.6	7898.6	7898.6	7898.6	7898.6
2.5°	8553.5	8532.3	8524.5	8511.2	8460.1	8410.0	8311.1	8283.3	8221.0	8073.1	7916.4
5°	8560.1	8559.0	8582.4	8576.8	8559.0	8535.7	8464.5	8427.8	8322.2	8110.9	7824.1
7.5°	8147.6	8168.8	8221.0	8263.3	8312.2	8375.6	8384.5	8348.9	8262.1	8034.2	7654.0
10°	7593.9	7627.3	7700.7	7784.1	7911.9	8038.7	8152.1	8147.6	8117.6	7893.0	7449.4
12.5°	7039.1	7078.0	7162.5	7285.9	7467.2	7674.0	7876.3	7904.1	7954.2	7766.3	7260.4
15°	6553.2	6586.6	6670.0	6821.2	7045.8	7323.7	7620.6	7671.8	7800.7	7667.3	7102.5
17.5°	6140.7	6161.9	6223.0	6390.9	6651.1	6988.0	7373.8	7473.8	7666.2	7589.5	6965.7
20°	5852.8	5856.1	5896.1	6014.0	6274.2	6651.1	7118.1	7261.5	7523.9	7522.8	6824.5
22.5°	5710.5	5699.3	5707.1	5774.9	5966.2	6329.8	6862.3	7032.4	7396.0	7466.1	6681.1
25°	5683.8	5674.9	5652.6	5661.5	5777.2	6048.5	6604.4	6801.2	7283.7	7431.6	6556.6
27.5°	5767.2	5776.1	5738.3	5698.2	5707.1	5866.1	6375.3	6603.3	7192.6	7431.6	6468.7
30°	5935.0	5939.5	5911.7	5859.4	5789.4	5815.0	6216.3	6444.3	7147.0	7482.7	6413.1
32.5°	6120.7	6145.2	6141.9	6099.6	5999.5	5896.1	6178.5	6386.5	7143.6	7596.2	6407.6
35°	6350.9	6378.7	6425.4	6416.5	6312.0	6141.9	6307.5	6471.0	7209.2	7782.9	6467.6
37.5°	6595.5	6637.7	6737.8	6785.6	6717.8	6525.4	6596.6	6713.3	7384.9	8085.4	6619.9
40°	6832.3	6880.1	7062.5	7250.4	7199.2	7001.3	7034.7	7128.1	7697.3	8520.1	6909.0
42.5°	7064.7	7135.8	7403.8	7712.9	7774.0	7616.2	7634.0	7708.4	8161.0	9118.3	7381.6
45°	7342.6	7422.7	7819.6	8201.0	8364.4	8295.5	8371.1	8420.0	8766.9	9908.8	8018.7
47.5°	7750.7	7843.0	8330.0	8764.7	9051.6	9096.0	9248.4	9280.6	9533.0	10829.4	8849.2
50°	8546.8	8572.4	9012.6	9407.4	9821.0	10087.8	10261.3	10285.7	10460.3	11835.6	9886.6
52.5°	9548.6	9565.2	9814.3	10078.9	10549.2	11094.0	11499.9	11534.3	11571.0	12816.3	10910.6
55°	10543.7	10541.4	10706.0	10861.7	11399.8	12191.4	13072.0	13093.1	12829.6	13746.9	11693.3
57.5°	11165.2	11225.2	11475.4	11675.5	12427.1	13442.3	14664.2	14742.0	14151.6	14436.2	12467.2
60°	10967.3	10996.2	11551.0	12291.5	13706.9	15220.1	16275.2	16295.3	15145.6	15124.5	13445.6
62.5°	9344.0	9359.5	10231.2	11757.8	14355.1	17526.1	18218.8	17893.0	16288.6	16079.6	14616.4
65°	6404.2	6505.4	7233.7	9120.5	13164.3	18972.6	21227.4	20688.2	18030.9	17456.0	15674.8
67.5°	3771.4	3750.3	4110.5	5500.3	9668.6	18012.0	25033.3	24497.4	20406.9	18377.7	15364.6
70°	2576.2	2561.7	2699.6	3330.0	5458.1	13972.6	26230.7	27312.6	22504.9	17757.3	13223.2
72.5°	1839.0	1846.8	2050.2	2587.3	3426.7	8141.0	22557.2	25117.8	21847.8	15480.3	10051.1
75°	1248.6	1269.7	1561.0	2122.5	3004.2	4141.6	16007.3	19093.8	17790.7	11250.8	5777.2
77.5°	671.6	694.9	1038.5	1710.0	2716.2	2877.5	10296.8	13140.9	11175.2	5057.8	1674.4
80°	280.2	293.5	485.9	1243.0	2347.1	2527.2	6058.5	7968.6	4762.0	997.3	373.6
82.5°	121.2	127.9	202.4	741.6	1754.5	2133.6	3207.7	3833.7	1443.2	219.0	187.9
85°	23.3	24.5	83.4	392.5	1119.6	1204.1	2079.2	2038.0	648.2	94.5	136.8
87.5°	0.0	0.0	20.0	123.4	329.1	656.0	1268.6	1253.1	220.1	45.6	51.1
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°	7898.6	7898.6	7898.6	7898.6	7898.6	7898.6	7898.6	7898.6	7898.6	7898.6	7898.6
2.5°	7836.3	7759.6	7598.4	7399.4	7247.0	7079.1	6945.7	6776.7	6703.3	6706.7	6666.6
5°	7660.6	7502.8	7145.9	6695.6	6348.7	5990.6	5682.7	5375.8	5194.6	5135.6	5080.0
7.5°	7409.4	7159.2	6589.9	5896.1	5309.1	4735.4	4236.1	3797.0	3519.0	3383.4	3333.3
10°	7125.8	6774.5	5950.6	5036.7	4198.3	3422.3	2775.2	2212.6	1988.0	1835.7	1796.7
12.5°	6876.8	6400.9	5325.8	4155.0	3159.9	2223.7	1606.6	1256.4	1104.1	1044.0	1034.0
15°	6642.2	6051.8	4724.2	3356.7	2188.1	1368.7	1021.8	902.8	867.2	857.2	857.2
17.5°	6420.9	5719.4	4136.1	2570.6	1447.6	959.5	846.1	819.4	808.3	807.2	808.3
20°	6189.7	5386.9	3557.9	1883.5	1010.7	812.8	781.6	767.2	763.8	763.8	763.8
22.5°	5968.4	5054.5	2995.3	1345.3	810.5	741.6	726.0	716.0	712.7	711.6	709.4
25°	5756.0	4738.7	2446.1	950.6	711.6	679.3	666.0	652.7	642.6	637.1	633.8
27.5°	5581.5	4457.4	1934.6	762.7	642.6	614.9	598.2	578.2	553.7	542.6	538.1
30°	5442.5	4200.6	1491.0	643.8	578.2	550.4	524.8	490.3	454.7	435.8	434.7
32.5°	5333.5	3948.2	1131.9	569.3	520.3	485.9	449.2	405.8	364.7	343.6	342.4
35°	5280.2	3725.8	865.0	514.8	469.2	425.8	380.3	332.4	292.4	272.4	270.2
37.5°	5315.7	3537.9	674.9	469.2	425.8	375.8	322.4	272.4	236.8	219.0	217.9
40°	5445.8	3417.8	548.1	430.3	389.1	328.0	270.2	223.5	193.5	179.0	177.9
42.5°	5722.7	3373.3	468.1	398.0	353.6	283.5	224.6	184.6	156.8	146.8	144.5
45°	6185.2	3438.9	413.6	366.9	316.9	241.3	185.7	151.2	126.8	119.0	117.9
47.5°	6801.2	3611.3	374.7	336.9	283.5	203.5	154.5	122.3	103.4	95.6	94.5
50°	7595.0	3884.8	342.4	306.9	252.4	172.3	127.9	96.7	80.1	74.5	74.5
52.5°	8458.9	4210.6	313.5	279.1	221.3	143.4	103.4	74.5	63.4	56.7	56.7
55°	9172.8	4495.2	282.4	257.9	183.5	119.0	78.9	56.7	46.7	43.4	43.4
57.5°	9885.4	4798.7	246.8	221.3	146.8	96.7	60.0	42.3	34.5	32.2	32.2
60°	10809.4	5170.1	212.4	180.1	115.6	73.4	44.5	30.0	25.6	24.5	24.5
62.5°	11825.6	5388.0	181.2	144.5	90.1	54.5	32.2	20.0	18.9	18.9	17.8
65°	12447.1	5080.0	152.3	115.6	70.0	41.1	21.1	14.5	16.7	15.6	13.3
67.5°	11654.4	3977.1	124.5	90.1	54.5	31.1	13.3	10.0	17.8	14.5	11.1
70°	9649.7	2784.1	96.7	63.4	43.4	26.7	8.9	6.7	18.9	14.5	8.9
72.5°	7221.5	1863.5	76.7	42.3	32.2	23.3	7.8	3.3	16.7	12.2	7.8
75°	3946.0	750.5	61.2	26.7	20.0	16.7	5.6	2.2	11.1	8.9	5.6
77.5°	1038.5	197.9	44.5	17.8	11.1	6.7	3.3	1.1	5.6	4.4	2.2
80°	264.6	76.7	28.9	12.2	7.8	3.3	0.0	0.0	1.1	0.0	0.0
82.5°	141.2	32.2	17.8	8.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	106.7	21.1	10.0	5.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	41.1	6.7	3.3	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)