

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: P321922

Luminaire Tested: **GAN-SA8B-740-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32581 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

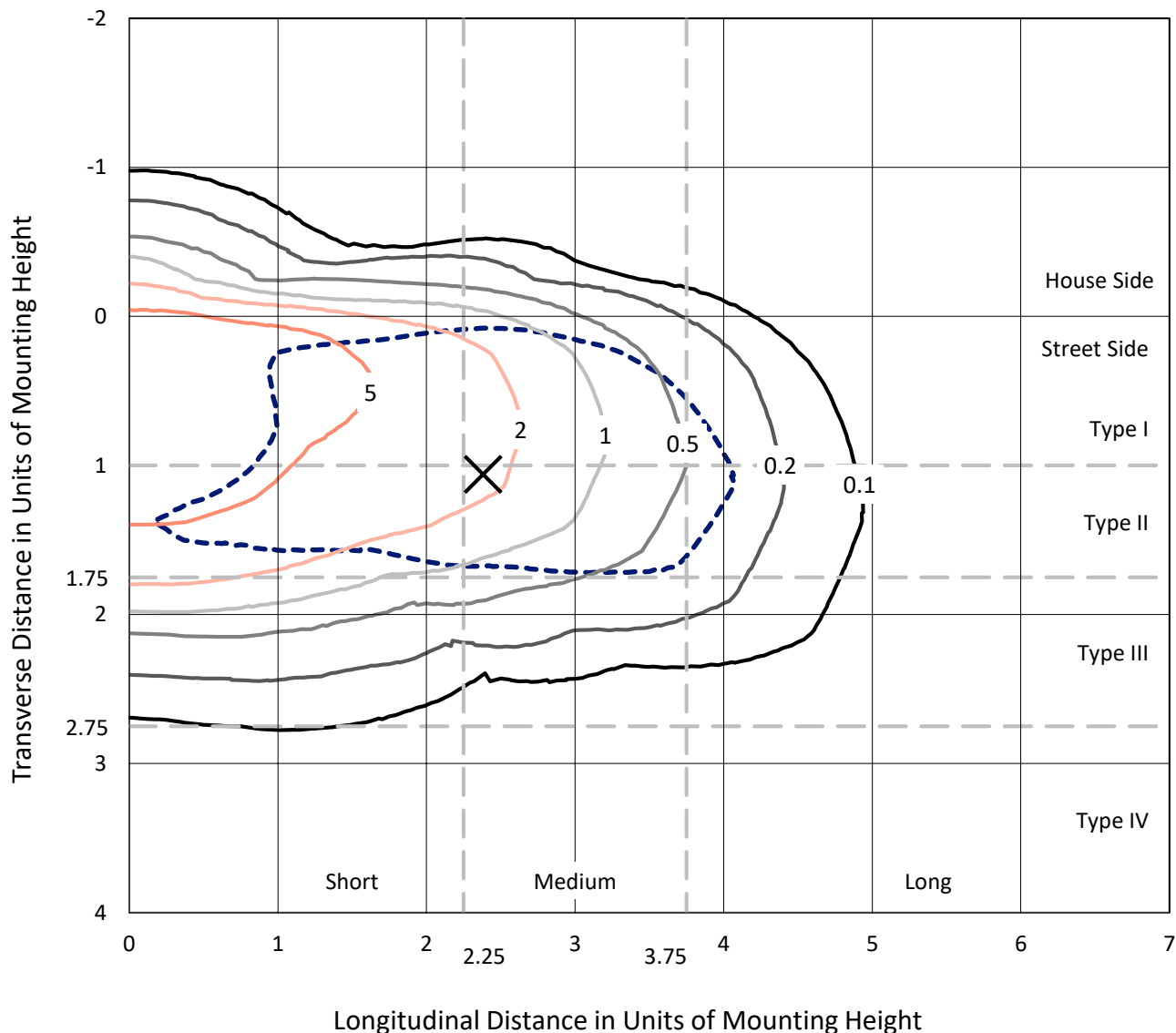
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

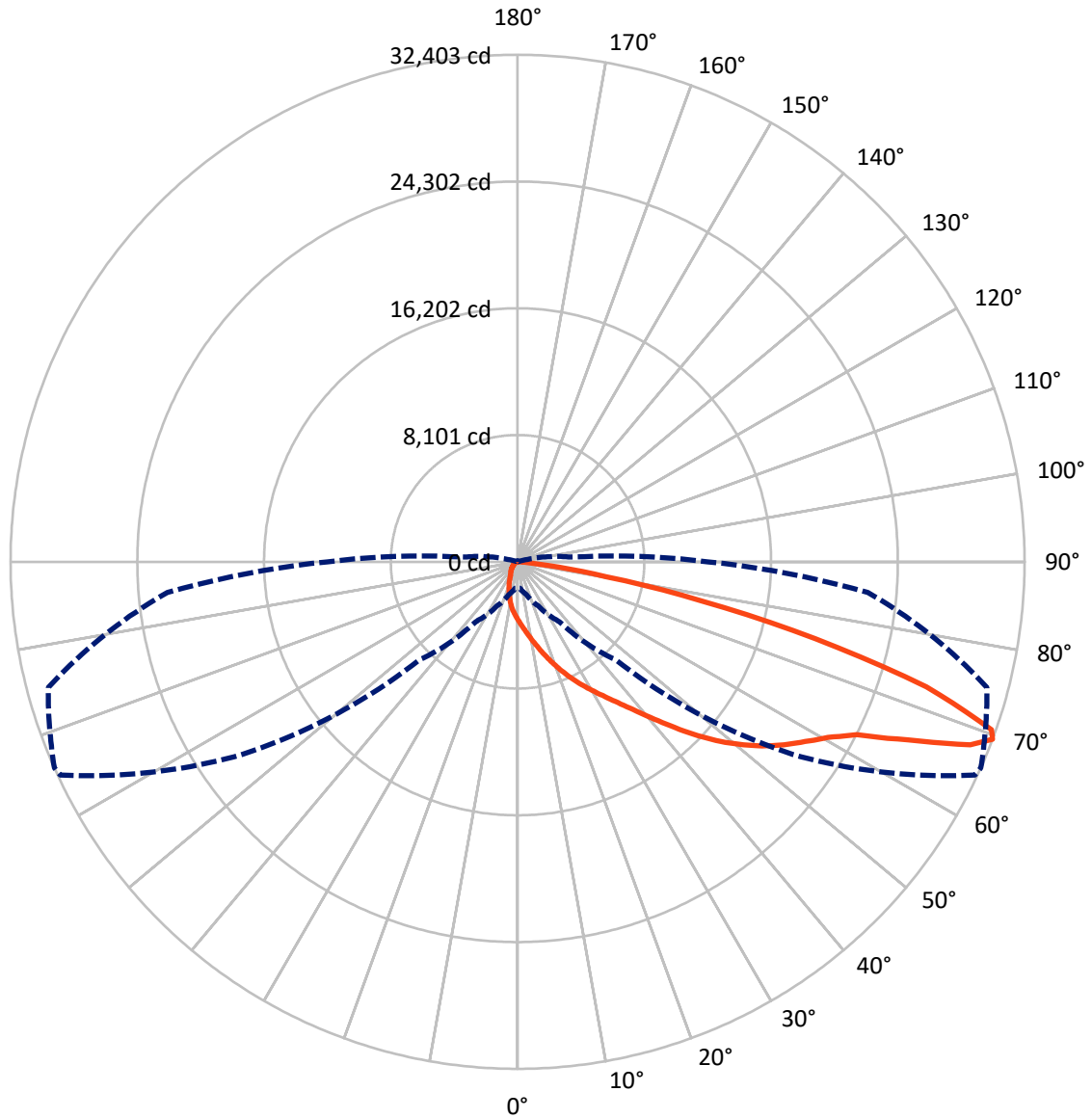
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1954.4	0.0	1954.4
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	30626.6	0.0	30626.6
	% Fixture	94.0	0.0	94.0
Total	Lumens	32581.0	0.0	32581.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.4	1.1
10°-20°	1066.7	3.3
20°-30°	1857.5	5.7
30°-40°	3259.0	10.0
40°-50°	5455.0	16.7
50°-60°	8018.4	24.6
60°-70°	8232.9	25.3
70°-80°	4064.3	12.5
80°-90°	268.7	0.8
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°	32581.0	100.0
0°-180°	32581.0	100.0

Coefficient of Utilization



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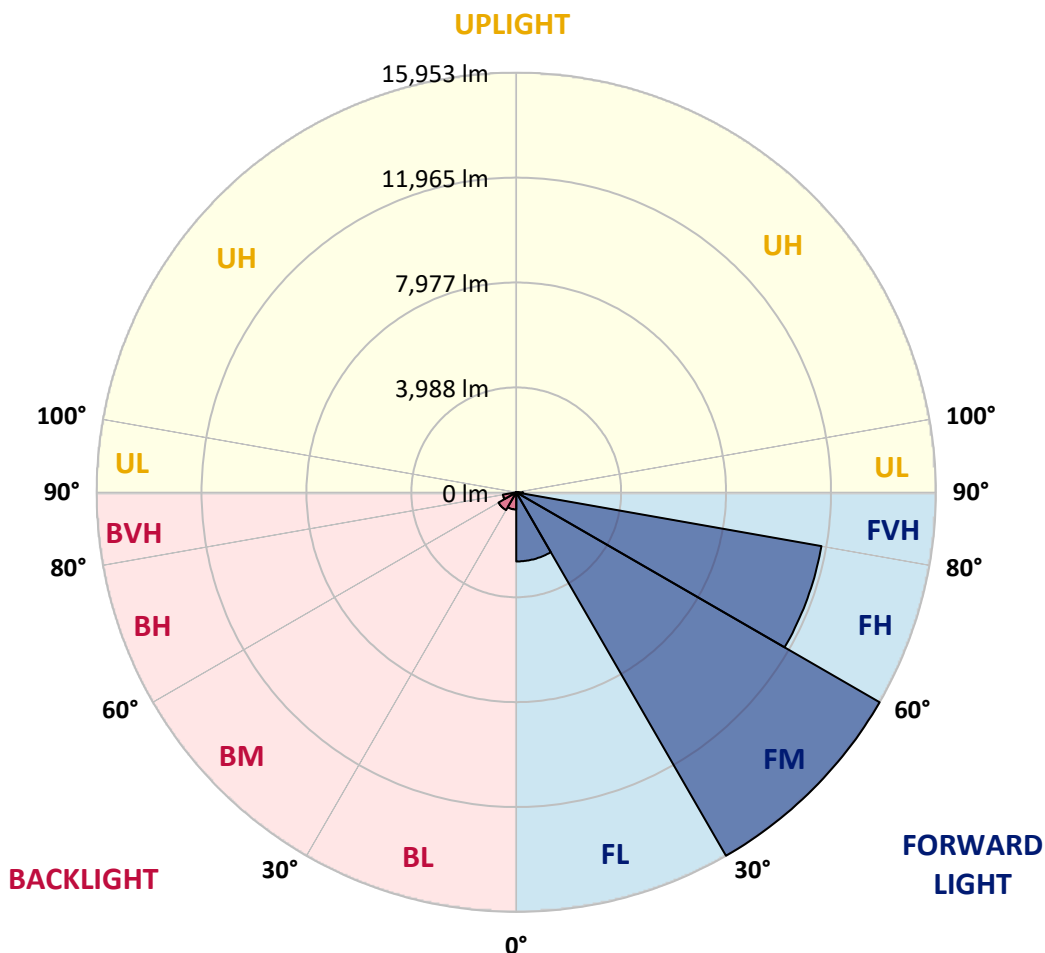
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2629.0	8.1			
FM (30°-60°)	15953.2	49.0			
FH (60°-80°)	11782.2	36.2			G4/12000
FVH (80°-90°)	262.2	0.8			G3/500
BL (0°-30°)	653.6	2.0	B2/1000		
BM (30°-60°)	779.2	2.4	B1/1000		
BH (60°-80°)	515.1	1.6	B2/1000		G2/1000
BVH (80°-90°)	6.5	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3707.8	3707.8	3707.8	3707.8	3707.8	3707.8	3707.8	3707.8	3707.8	3707.8	3707.8
2.5°	4364.0	4345.4	4337.7	4303.6	4244.8	4199.9	4113.3	4012.7	3994.1	3896.6	3777.5
5°	4930.4	4914.9	4904.0	4856.1	4795.7	4682.8	4524.9	4337.7	4302.1	4116.4	3878.0
7.5°	5325.0	5352.8	5352.8	5321.9	5246.0	5160.9	4967.5	4712.2	4667.3	4382.5	4012.7
10°	5555.5	5589.6	5615.9	5642.2	5631.4	5597.3	5414.7	5126.9	5072.7	4695.1	4169.0
12.5°	5577.2	5611.3	5685.5	5795.4	5902.2	5979.6	5865.0	5586.5	5524.6	5057.2	4354.7
15°	5456.5	5492.1	5606.6	5820.2	6078.6	6304.5	6341.7	6095.6	6032.2	5489.0	4586.8
17.5°	5246.0	5269.3	5433.3	5728.9	6134.3	6549.0	6773.4	6641.9	6583.1	5982.7	4845.2
20°	5089.7	5106.8	5250.7	5567.9	6100.3	6702.2	7182.0	7222.2	7160.3	6511.9	5125.3
22.5°	5357.5	5388.4	5393.1	5543.2	6007.4	6778.1	7541.0	7793.2	7746.8	7073.6	5400.8
25°	6089.4	6125.0	6007.4	5914.6	6086.3	6812.1	7848.9	8378.2	8341.1	7678.7	5677.8
27.5°	7056.6	7093.8	6942.1	6665.1	6499.5	6940.6	8122.9	8972.4	8970.9	8319.4	5976.5
30°	8006.8	8043.9	7889.2	7612.2	7231.5	7304.2	8359.6	9594.5	9603.8	8980.2	6293.7
32.5°	9003.4	9049.8	8890.4	8534.5	8136.8	7932.5	8692.3	10219.7	10272.3	9746.2	6651.2
35°	10136.2	10142.3	9918.0	9545.0	9087.0	8772.8	9226.2	10920.7	11046.1	10694.8	7104.6
37.5°	11247.3	11292.1	11108.0	10519.9	10099.0	9743.1	10020.1	11796.6	11974.6	11853.9	7697.3
40°	12070.5	12164.9	12138.6	11504.2	11104.9	10851.1	11005.9	12838.1	13064.0	13203.3	8444.7
42.5°	12587.4	12658.6	12779.3	12397.1	12034.9	12076.7	12169.6	14051.3	14329.9	14741.5	9303.6
45°	13180.1	13214.1	13314.7	13146.1	12901.6	13322.5	13404.5	15417.8	15710.3	16395.8	10256.9
47.5°	13904.3	13984.8	14012.7	13857.9	13746.5	14424.3	14594.5	16660.4	17070.5	18167.7	11265.8
50°	14826.6	14848.3	14896.3	14795.7	14684.3	15371.4	15662.3	17965.0	18337.9	19945.8	12260.9
52.5°	15728.8	15806.2	15973.3	15909.9	15865.0	16177.6	16614.0	19141.1	19557.4	21428.3	13254.4
55°	15988.8	16055.4	16632.6	17027.2	17392.4	17171.1	17523.9	20194.9	20645.3	22753.0	14210.7
57.5°	14950.4	15085.1	16084.8	17112.3	18627.3	18715.5	18774.3	21276.6	21680.5	23768.1	15205.8
60°	12325.9	12352.2	13992.5	15755.2	18423.0	20063.4	20600.4	22438.8	22777.7	24713.7	16397.4
62.5°	7839.7	8107.4	9907.1	12395.5	16262.7	19868.4	22808.7	24196.8	24320.6	25848.0	18105.8
65°	3734.1	3907.5	5204.3	7658.6	11779.6	17372.3	24333.0	27376.9	27432.6	28096.5	20388.4
67.5°	2067.5	2151.0	2768.5	4122.6	6886.4	12285.6	23717.1	31143.5	31196.2	30393.0	22390.9
69°	1617.1	1688.3	2174.2	3107.4	4668.8	8830.1	21462.3	32246.9	32403.2	31050.7	22462.0
70°	1372.6	1442.3	1872.5	2624.6	3754.2	6823.0	19104.0	31973.0	32138.6	30988.8	21931.2
72.5°	840.3	880.5	1247.3	1847.7	2516.2	3432.4	11781.2	27039.6	27319.7	28426.1	18848.6
75°	566.4	588.1	779.9	1275.1	1799.7	1767.3	6120.4	19059.1	19665.7	22112.3	13921.4
77.5°	405.4	425.6	523.1	824.8	1261.2	1166.8	2771.6	11844.6	11974.6	13262.1	7592.1
80°	230.6	249.1	369.9	490.6	855.8	778.4	1101.8	5657.7	5722.7	5687.1	2534.8
82.5°	120.7	136.2	202.7	323.4	549.4	509.1	458.1	1894.1	1903.4	1583.1	555.6
85°	23.2	27.9	100.6	221.3	283.2	221.3	187.2	444.1	453.4	400.8	137.7
87.5°	0.0	1.5	40.2	49.5	55.7	57.3	60.4	86.7	92.9	125.3	37.1
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°	3707.8	3707.8	3707.8	3707.8	3707.8	3707.8	3707.8	3707.8	3707.8	3707.8	3707.8
2.5°	3724.8	3669.1	3562.4	3438.6	3342.6	3248.2	3173.9	3096.6	3068.7	3054.8	3053.2
5°	3762.0	3644.4	3418.4	3186.3	2996.0	2816.5	2688.0	2565.8	2508.5	2482.2	2471.4
7.5°	3823.9	3635.1	3271.4	2917.0	2643.1	2418.8	2240.8	2107.7	2041.2	2013.3	2002.5
10°	3896.6	3622.7	3099.7	2632.3	2282.6	2050.4	1874.0	1742.5	1669.8	1638.8	1623.3
12.5°	3981.7	3601.0	2901.6	2344.5	1974.6	1742.5	1528.9	1366.4	1282.9	1247.3	1230.3
15°	4087.0	3579.4	2694.2	2073.7	1703.8	1420.6	1186.9	1077.1	1060.0	1053.9	1055.4
17.5°	4190.6	3545.3	2468.3	1805.9	1419.1	1109.6	990.4	984.2	987.3	987.3	987.3
20°	4283.5	3468.0	2222.2	1576.9	1148.2	936.2	911.5	900.6	892.9	886.7	879.0
22.5°	4356.2	3364.3	1985.4	1349.4	937.8	857.3	818.6	784.6	756.7	738.2	728.9
25°	4405.7	3226.5	1768.8	1131.2	843.4	779.9	710.3	653.0	609.7	583.4	572.6
27.5°	4442.9	3078.0	1575.4	947.1	778.4	690.2	598.9	530.8	485.9	462.7	453.4
30°	4469.2	2909.3	1405.1	832.6	705.7	595.8	498.3	431.8	399.3	386.9	380.7
32.5°	4494.0	2722.1	1244.2	778.4	637.6	509.1	417.8	366.8	346.6	331.2	326.5
35°	4555.9	2548.7	1091.0	721.1	567.9	434.8	359.0	321.9	301.8	292.5	289.4
37.5°	4702.9	2420.3	944.0	662.3	498.3	376.0	314.1	287.8	269.3	260.0	256.9
40°	4939.6	2355.3	820.2	598.9	430.2	331.2	284.7	260.0	239.9	225.9	222.8
42.5°	5287.8	2364.6	733.5	535.4	376.0	295.6	256.9	227.5	205.8	193.4	190.3
45°	5710.3	2432.7	673.2	473.5	331.2	267.7	225.9	195.0	174.9	164.0	160.9
47.5°	6168.4	2542.6	623.6	417.8	295.6	241.4	195.0	162.5	145.5	136.2	134.6
50°	6651.2	2649.3	572.6	363.7	264.6	215.1	164.0	134.6	120.7	113.0	109.9
52.5°	7140.2	2773.1	526.2	314.1	238.3	184.2	136.2	109.9	99.0	92.9	89.8
55°	7666.3	2866.0	481.3	275.5	212.0	156.3	113.0	91.3	82.0	74.3	72.7
57.5°	8285.3	3009.9	434.8	238.3	181.1	130.0	92.9	72.7	65.0	57.3	55.7
60°	9121.0	3178.6	385.3	210.5	148.6	106.8	75.8	58.8	49.5	43.3	41.8
62.5°	10222.8	3365.8	323.4	184.2	120.7	86.7	60.4	46.4	35.6	27.9	27.9
65°	11620.2	3670.7	264.6	154.8	99.0	71.2	46.4	34.0	20.1	12.4	12.4
67.5°	12435.8	3723.3	213.6	126.9	80.5	60.4	38.7	23.2	6.2	1.5	0.0
69°	12174.2	3418.4	181.1	108.3	69.6	57.3	35.6	17.0	3.1	0.0	0.0
70°	11682.1	3126.0	159.4	95.9	63.4	54.2	34.0	12.4	3.1	0.0	0.0
72.5°	9653.3	2225.3	120.7	71.2	46.4	48.0	31.0	7.7	3.1	0.0	0.0
75°	7031.9	1352.5	86.7	49.5	29.4	35.6	21.7	3.1	1.5	0.0	0.0
77.5°	3912.1	637.6	54.2	27.9	18.6	21.7	10.8	0.0	0.0	0.0	0.0
80°	1270.5	173.3	24.8	15.5	10.8	12.4	4.6	0.0	0.0	0.0	0.0
82.5°	235.2	49.5	13.9	7.7	3.1	3.1	0.0	0.0	0.0	0.0	0.0
85°	51.1	20.1	7.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.0	6.2	1.5	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)