

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: P321594

Luminaire Tested: **GAN-SA0A-740-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35476 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

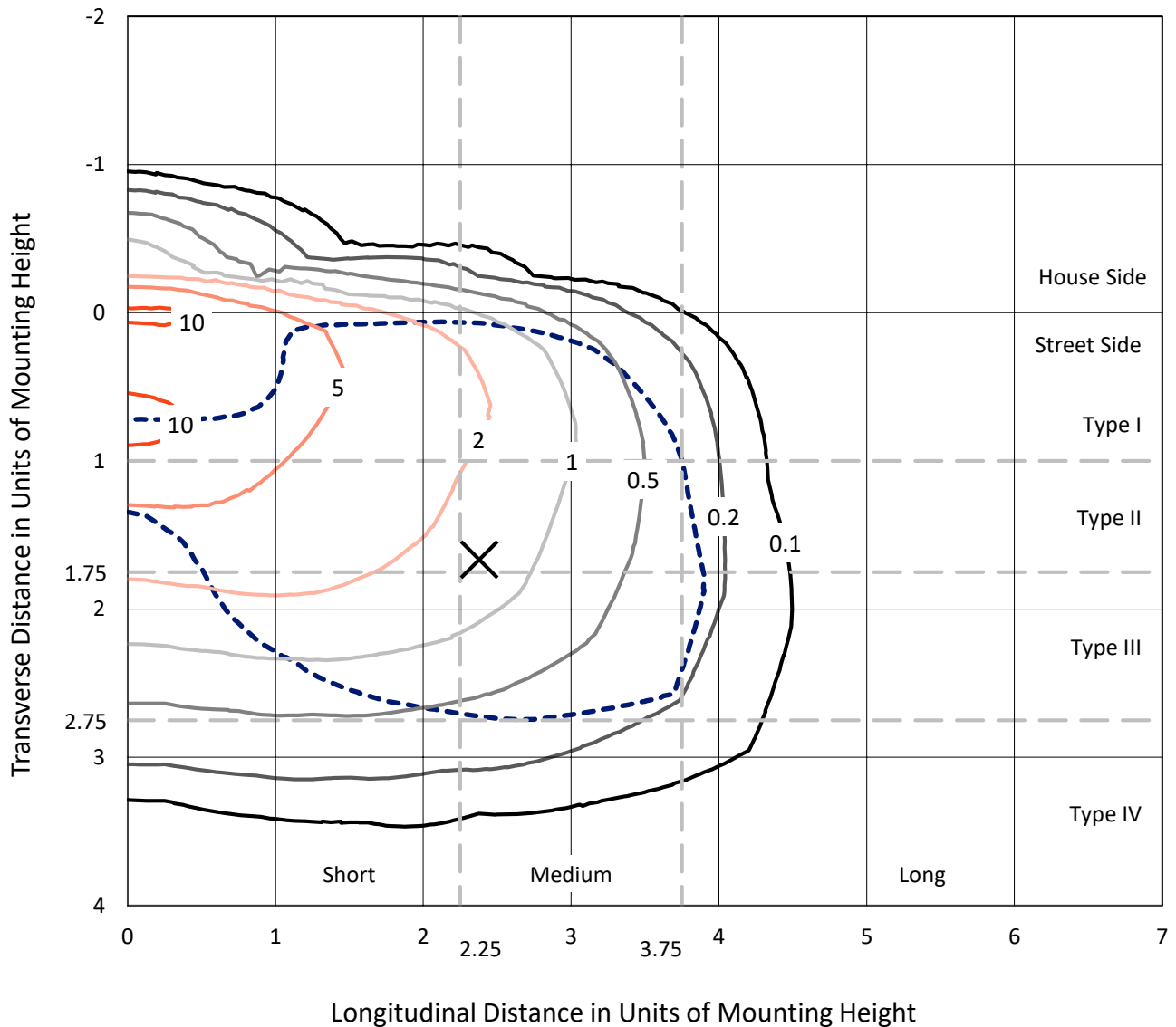
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

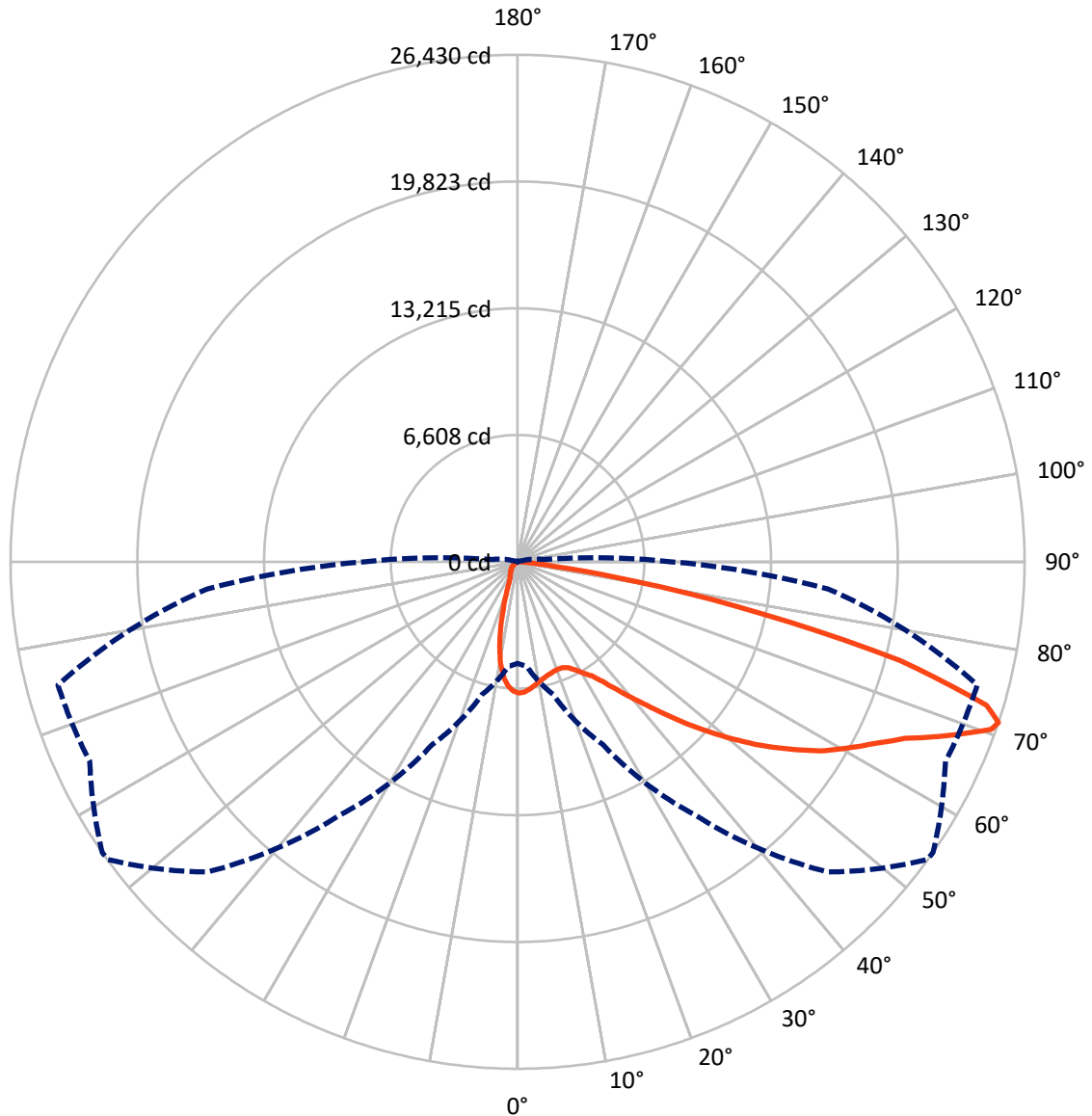
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2808.7	0.0	2808.7
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	32667.3	0.0	32667.3
	% Fixture	92.1	0.0	92.1
Total	Lumens	35476.0	0.0	35476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.3	1.6
10°-20°	1316.9	3.7
20°-30°	2116.4	6.0
30°-40°	3595.8	10.1
40°-50°	5581.2	15.7
50°-60°	7503.7	21.2
60°-70°	9179.5	25.9
70°-80°	5367.1	15.1
80°-90°	232.0	0.7
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°	35476.0	100.0
0°-180°	35476.0	100.0

Coefficient of Utilization

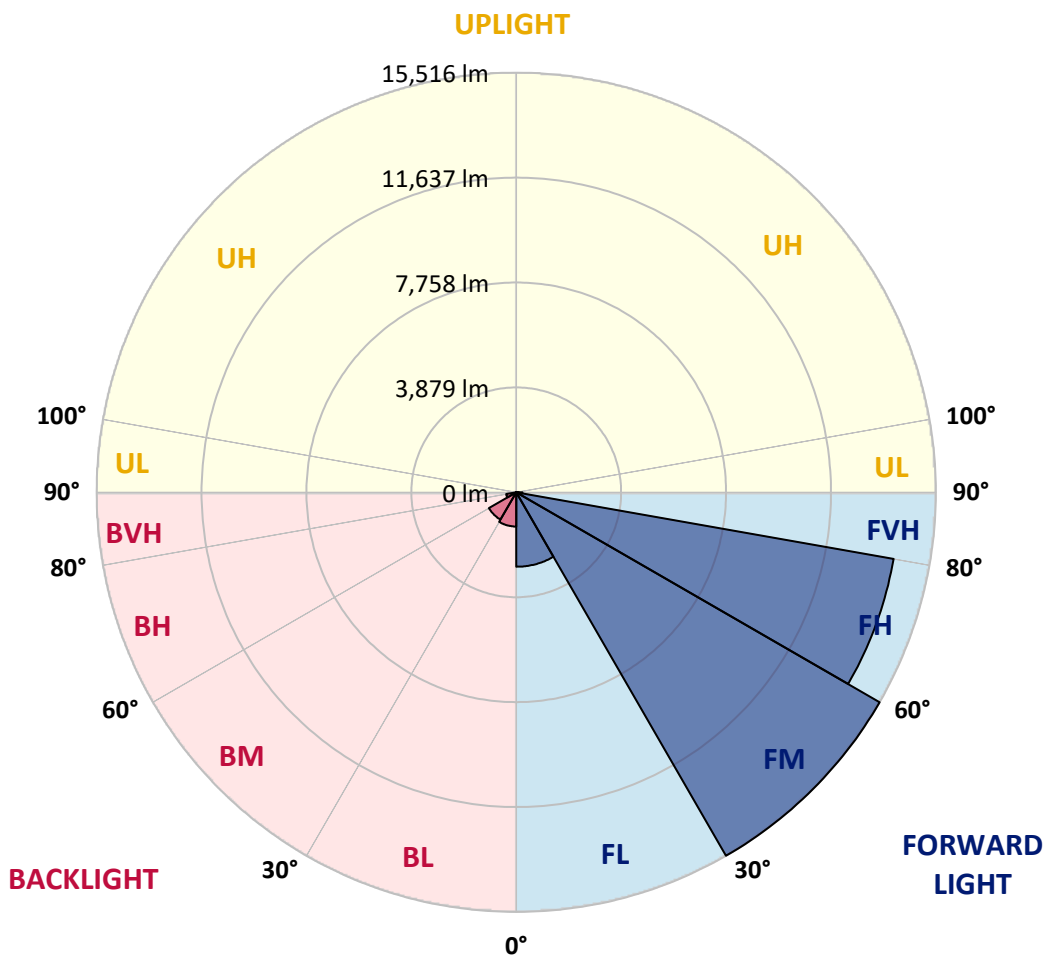


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2752.4	7.8			
FM (30°-60°)	15516.2	43.7			
FH (60°-80°)	14170.3	39.9			G5
FVH (80°-90°)	228.3	0.6			G3/500
BL (0°-30°)	1264.2	3.6	B3/2500		
BM (30°-60°)	1164.5	3.3	B2/2500		
BH (60°-80°)	376.3	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	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°	54°	55°	65°	75°	85°
0°	6841.7	6841.7	6841.7	6841.7	6841.7	6841.7	6841.7	6841.7	6841.7	6841.7	6841.7
2.5°	6641.0	6648.9	6677.6	6690.3	6720.6	6771.6	6797.1	6798.7	6840.1	6856.0	6868.8
5°	6171.0	6218.8	6266.6	6317.6	6410.0	6532.6	6653.7	6664.9	6798.7	6897.4	6950.0
7.5°	5766.4	5809.4	5866.8	5948.0	6078.7	6271.4	6473.7	6497.6	6750.9	6975.5	7093.4
10°	5350.7	5385.7	5468.6	5588.0	5768.0	6026.1	6298.5	6338.3	6707.9	7080.6	7287.7
12.5°	4906.3	4927.0	5027.3	5199.4	5463.8	5791.9	6150.3	6202.9	6680.8	7201.7	7517.1
15°	4568.5	4578.1	4673.7	4852.1	5154.8	5581.7	6035.6	6099.4	6687.2	7346.6	7767.2
17.5°	4482.5	4487.3	4538.3	4660.9	4928.6	5393.7	5944.8	6022.9	6706.3	7488.4	8018.9
20°	4831.4	4797.9	4745.4	4726.3	4840.9	5280.6	5890.7	5978.3	6731.8	7614.2	8245.1
22.5°	5788.7	5690.0	5471.7	5180.2	5003.4	5288.6	5905.0	5992.6	6813.0	7768.8	8506.3
25°	7209.6	7072.7	6701.5	6128.0	5576.9	5517.9	6024.5	6113.7	6970.7	7953.5	8756.4
27.5°	8826.5	8691.1	8237.1	7418.3	6478.5	5971.9	6298.5	6381.3	7204.9	8117.6	8947.5
30°	10374.8	10336.6	9801.4	8871.1	7612.7	6707.9	6652.1	6722.2	7378.5	8216.4	9098.9
32.5°	11687.4	11626.9	11196.8	10292.0	8910.9	7591.9	7067.9	7088.6	7509.1	8343.8	9296.4
35°	12904.4	12829.5	12452.0	11596.6	10242.6	8672.0	7708.2	7678.0	7794.3	8600.3	9583.1
37.5°	13966.9	14035.4	13616.4	12802.5	11437.3	9795.0	8571.6	8480.8	8240.3	9017.6	9998.9
40°	14855.8	14855.8	14637.5	13958.9	12727.6	10956.2	9548.1	9428.6	8910.9	9661.2	10526.1
42.5°	15175.9	15244.4	15325.7	14941.8	13882.5	12163.7	10636.1	10511.8	9855.5	10573.9	11192.0
45°	15195.0	15303.4	15719.1	15717.5	14925.8	13363.2	11862.6	11803.7	11066.1	11746.3	12017.1
47.5°	14925.8	15061.2	15746.2	16134.9	15752.6	14479.8	13203.9	13130.6	12488.6	13183.2	12880.5
50°	14510.1	14659.8	15456.3	16299.0	16314.9	15451.5	14616.8	14506.9	14054.5	14825.5	13772.6
52.5°	13766.2	14056.1	15196.6	16337.2	16684.4	16291.0	15961.3	15913.5	15806.7	16407.3	14483.0
55°	12174.8	12496.6	14545.1	16349.9	17026.9	17034.9	17221.3	17234.0	17449.1	17885.5	15011.9
57.5°	11423.0	11604.6	13407.8	16410.5	17535.1	17879.1	18505.2	18603.9	18936.9	19288.9	15615.6
60°	10949.9	11164.9	12847.1	16327.6	18333.1	18986.2	19695.1	19728.6	20085.4	20736.9	16432.8
62.5°	10572.3	10784.2	12493.4	16009.0	19230.0	20317.9	20857.9	20861.1	21128.7	22462.0	17361.4
65°	9640.5	9818.9	11778.2	15650.6	19822.5	21635.3	22208.8	22188.1	22406.3	24281.2	18439.9
67.5°	8292.8	8429.8	10317.5	14291.9	19599.5	22833.2	24247.7	24179.2	23914.8	25853.4	18863.6
70°	6411.6	6461.0	8132.0	11910.4	17509.6	23293.5	26218.2	26183.1	24840.3	25571.5	17310.5
71°	5299.7	5462.2	7166.6	10511.8	16109.4	22868.2	26409.3	26430.0	24607.7	24803.7	16241.6
72.5°	3077.6	3216.1	5194.6	8073.0	13677.0	21093.7	25418.5	25568.3	23521.3	22560.8	13872.9
75°	659.5	705.7	1925.9	3907.5	7523.5	14784.1	20063.1	20596.7	19171.0	15348.0	8361.3
77.5°	458.8	495.4	825.1	1772.9	2486.6	7305.2	12463.2	13065.3	11453.2	5768.0	2676.1
80°	363.2	404.6	643.5	876.1	672.2	2356.0	5838.1	6206.1	3819.9	1287.1	450.8
82.5°	202.3	240.5	501.8	473.1	258.1	447.6	1634.4	1847.8	764.6	259.6	106.7
85°	58.9	71.7	323.4	344.1	109.9	86.0	278.8	345.7	145.0	68.5	47.8
87.5°	0.0	0.0	156.1	132.2	31.9	12.7	25.5	28.7	28.7	28.7	31.9
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°	6841.7	6841.7	6841.7	6841.7	6841.7	6841.7	6841.7	6841.7	6841.7	6841.7	6841.7
2.5°	6868.8	6879.9	6840.1	6787.5	6731.8	6663.3	6591.6	6535.8	6534.2	6507.2	6480.1
5°	6953.2	6946.8	6836.9	6669.6	6472.1	6266.6	6070.7	5849.3	5776.0	5685.2	5654.9
7.5°	7109.3	7064.7	6832.1	6465.7	6032.5	5602.4	5157.9	4710.3	4519.2	4347.1	4316.9
10°	7305.2	7220.8	6801.9	6159.9	5365.0	4571.7	3901.1	3292.6	3025.0	2819.5	2809.9
12.5°	7509.1	7380.1	6717.4	5697.9	4490.5	3375.4	2602.9	2003.9	1780.9	1637.5	1650.3
15°	7722.6	7529.8	6535.8	5075.1	3494.9	2290.6	1599.3	1247.3	1158.1	1121.4	1131.0
17.5°	7940.8	7633.4	6282.6	4324.8	2512.1	1478.2	1107.1	1008.3	1008.3	1016.3	1019.5
20°	8130.4	7689.1	5909.8	3483.8	1702.9	1076.8	968.5	954.2	962.1	974.9	976.5
22.5°	8318.3	7692.3	5424.0	2631.5	1191.5	943.0	922.3	915.9	920.7	935.1	936.6
25°	8471.3	7654.1	4815.5	1871.7	951.0	888.9	879.3	876.1	879.3	896.8	896.8
27.5°	8533.4	7515.5	4073.1	1315.8	852.2	828.3	825.1	828.3	833.1	845.9	847.4
30°	8539.7	7273.4	3263.9	952.6	772.6	747.1	753.5	764.6	759.8	756.6	759.8
32.5°	8555.7	6993.0	2475.4	783.7	705.7	665.8	657.9	657.9	638.8	627.6	621.2
35°	8608.2	6663.3	1795.2	704.1	637.2	591.0	560.7	525.7	489.0	469.9	465.1
37.5°	8691.1	6317.6	1285.5	651.5	576.6	524.1	466.7	404.6	352.0	337.7	337.7
40°	8842.4	5960.8	951.0	610.1	528.9	463.5	377.5	296.3	248.5	240.5	240.5
42.5°	9081.3	5584.8	758.2	573.5	487.4	401.4	288.3	215.0	180.0	175.2	173.6
45°	9329.8	5170.7	662.7	538.4	442.8	329.7	213.5	159.3	138.6	133.8	133.8
47.5°	9578.3	4729.4	616.5	505.0	399.8	256.5	159.3	125.8	116.3	116.3	117.9
50°	9788.6	4269.1	583.0	468.3	344.1	194.3	125.8	106.7	103.5	109.9	111.5
52.5°	9841.2	3816.7	541.6	422.1	275.6	148.1	103.5	94.0	94.0	94.0	94.0
55°	9809.3	3466.2	487.4	364.8	203.9	117.9	89.2	82.8	81.2	81.2	81.2
57.5°	9917.6	3259.2	390.3	283.5	146.6	95.6	78.1	73.3	70.1	68.5	68.5
60°	10135.9	3123.8	278.8	203.9	109.9	79.6	66.9	62.1	57.3	54.2	54.2
62.5°	10425.8	3005.9	207.1	151.3	84.4	63.7	55.8	51.0	44.6	41.4	41.4
65°	10648.8	2795.6	157.7	113.1	63.7	51.0	43.0	41.4	31.9	28.7	27.1
67.5°	10307.9	2333.7	127.4	82.8	47.8	39.8	33.5	31.9	19.1	15.9	15.9
70°	8840.8	1624.8	101.9	60.5	35.0	31.9	27.1	20.7	14.3	12.7	12.7
71°	8017.3	1357.2	92.4	51.0	30.3	30.3	25.5	17.5	12.7	11.2	11.2
72.5°	6660.1	963.7	78.1	39.8	27.1	31.9	27.1	15.9	12.7	11.2	9.6
75°	3866.1	403.0	54.2	27.1	20.7	38.2	35.0	14.3	9.6	8.0	8.0
77.5°	1162.8	148.1	30.3	17.5	15.9	33.5	39.8	12.7	4.8	1.6	1.6
80°	211.9	63.7	19.1	11.2	11.2	20.7	30.3	6.4	0.0	0.0	0.0
82.5°	74.9	31.9	11.2	6.4	4.8	9.6	14.3	0.0	0.0	0.0	0.0
85°	43.0	22.3	6.4	3.2	0.0	1.6	3.2	0.0	0.0	0.0	0.0
87.5°	28.7	6.4	0.0	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)