

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: P321912

Luminaire Tested: **GAN-SA8A-740-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321912
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-SA8A-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA 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: 26570 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

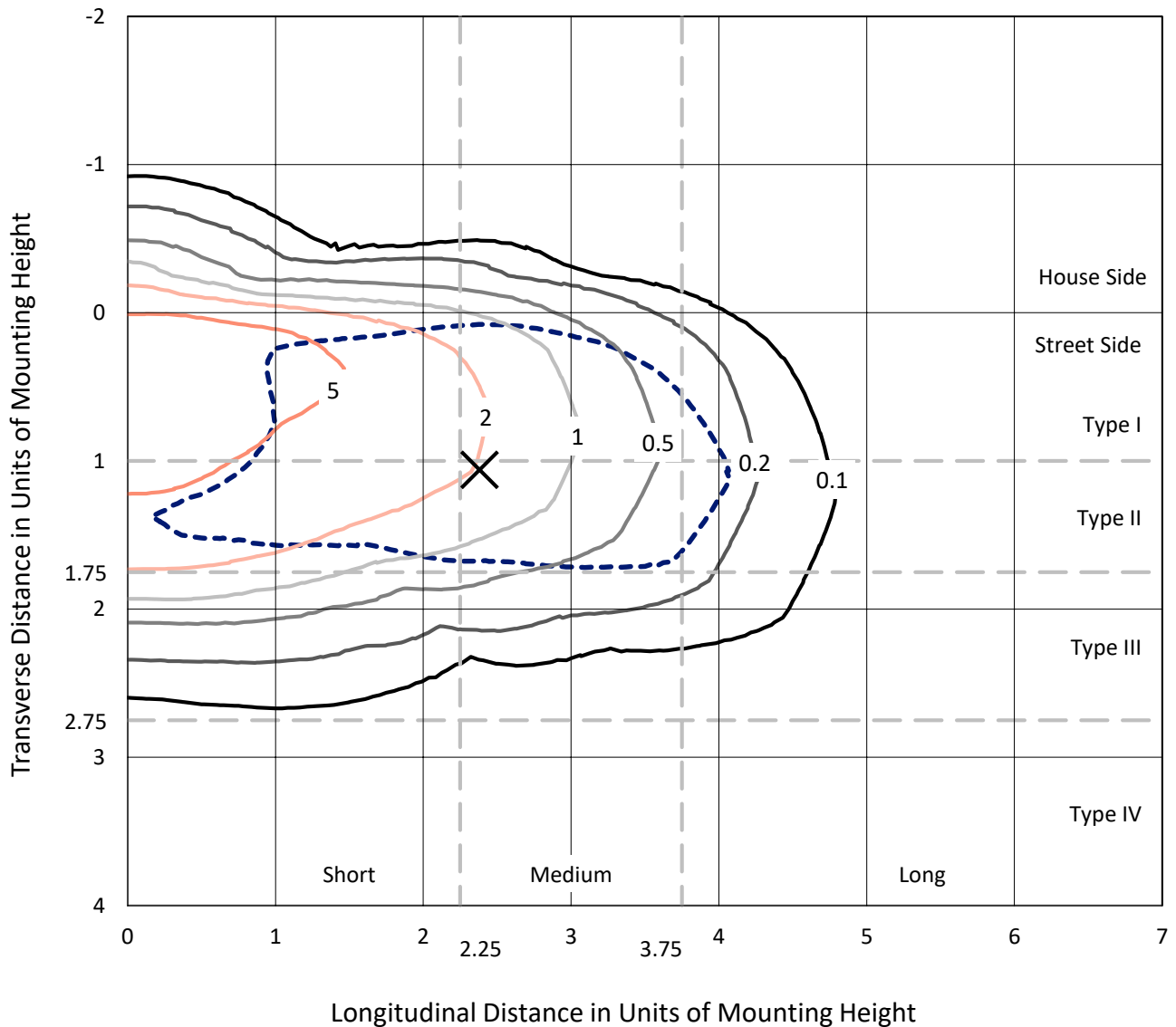
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

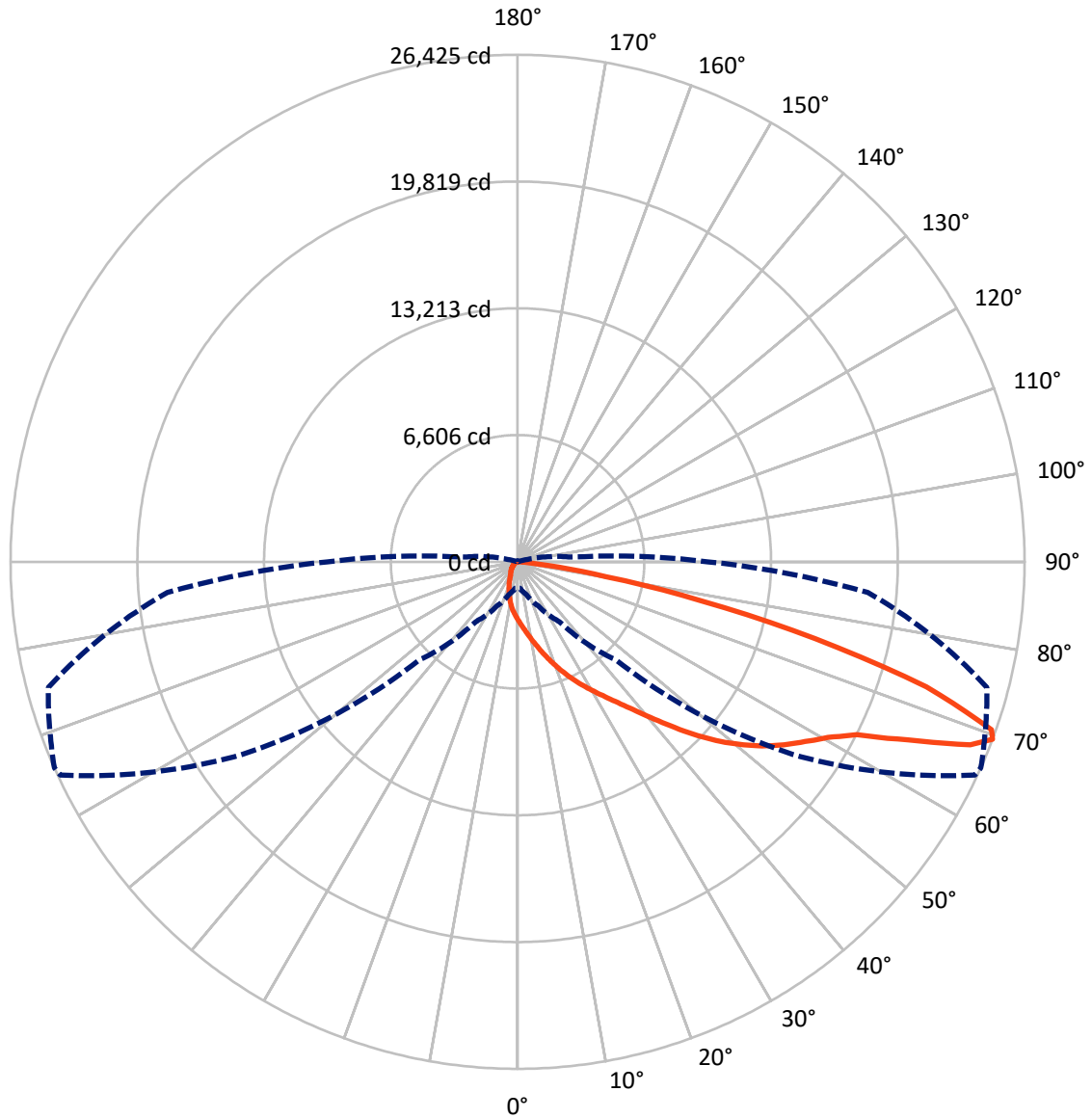
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	1593.8	0.0	1593.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	24976.2	0.0	24976.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	26570.0	0.0	26570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.3	1.1
10°-20°	869.9	3.3
20°-30°	1514.8	5.7
30°-40°	2657.7	10.0
40°-50°	4448.6	16.7
50°-60°	6539.1	24.6
60°-70°	6714.0	25.3
70°-80°	3314.5	12.5
80°-90°	219.2	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°	26570.0	100.0
0°-180°	26570.0	100.0

Coefficient of Utilization

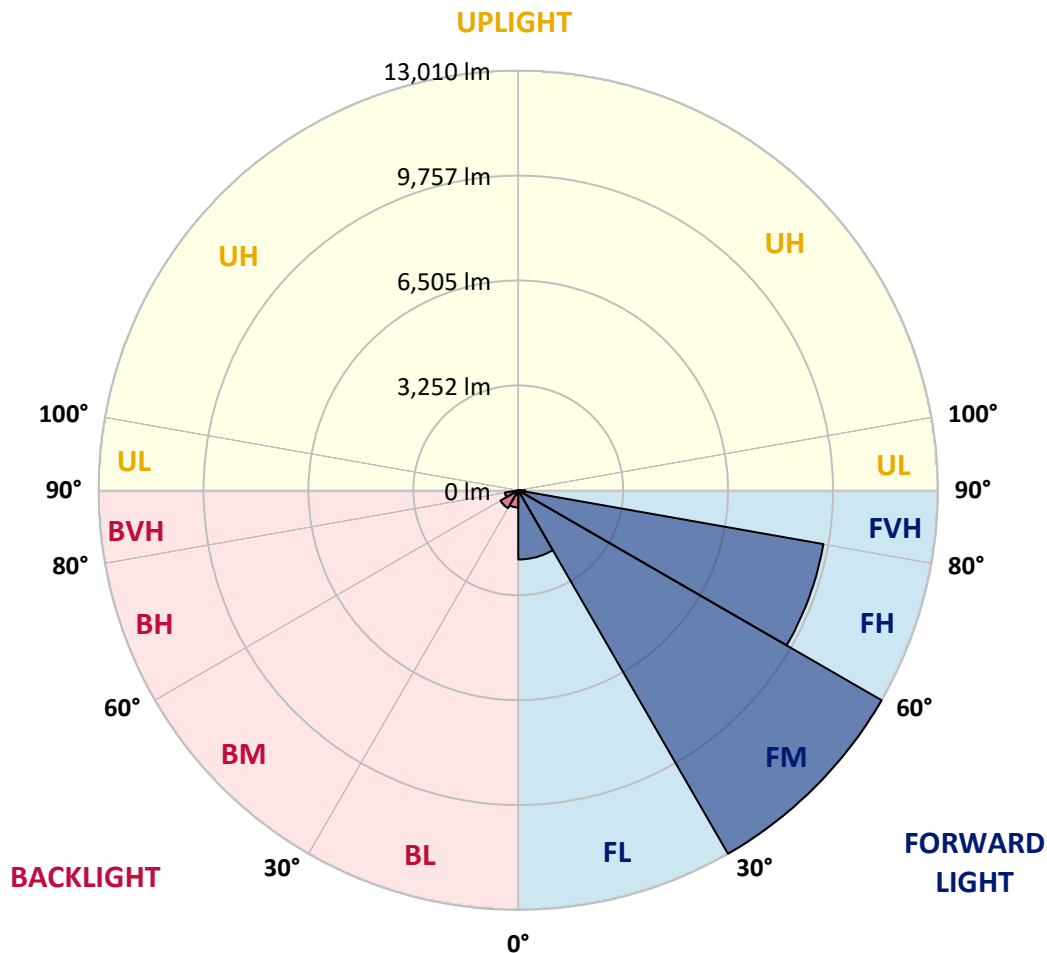


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2143.9	8.1			
FM (30°-60°)	13009.9	49.0			
FH (60°-80°)	9608.4	36.2			G4/12000
FVH (80°-90°)	213.9	0.8			G2/225
BL (0°-30°)	533.0	2.0	B2/1000		
BM (30°-60°)	635.5	2.4	B1/1000		
BH (60°-80°)	420.0	1.6	B1/500		G1/500
BVH (80°-90°)	5.3	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°	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8
2.5°	3558.8	3543.7	3537.4	3509.6	3461.7	3425.1	3354.4	3272.4	3257.2	3177.7	3080.5
5°	4020.7	4008.1	3999.3	3960.2	3910.9	3818.8	3690.1	3537.4	3508.4	3356.9	3162.6
7.5°	4342.5	4365.3	4365.3	4340.0	4278.2	4208.8	4051.0	3842.8	3806.2	3574.0	3272.4
10°	4530.6	4558.3	4579.8	4601.3	4592.4	4564.7	4415.7	4181.0	4136.8	3828.9	3399.8
12.5°	4548.2	4576.0	4636.6	4726.2	4813.3	4876.4	4783.0	4555.8	4505.3	4124.2	3551.3
15°	4449.8	4478.8	4572.2	4746.4	4957.1	5141.4	5171.7	4971.0	4919.3	4476.3	3740.6
17.5°	4278.2	4297.1	4430.9	4671.9	5002.6	5340.8	5523.8	5416.5	5368.5	4878.9	3951.3
20°	4150.7	4164.6	4282.0	4540.7	4974.8	5465.7	5856.9	5889.8	5839.3	5310.5	4179.7
22.5°	4369.0	4394.3	4398.1	4520.5	4899.1	5527.6	6149.7	6355.4	6317.6	5768.6	4404.4
25°	4966.0	4995.0	4899.1	4823.4	4963.4	5555.3	6400.9	6832.5	6802.2	6262.0	4630.3
27.5°	5754.7	5785.0	5661.3	5435.4	5300.4	5660.1	6624.2	7317.1	7315.8	6784.5	4873.8
30°	6529.6	6559.9	6433.7	6207.8	5897.3	5956.6	6817.3	7824.4	7832.0	7323.4	5132.6
32.5°	7342.3	7380.2	7250.2	6959.9	6635.6	6469.0	7088.7	8334.2	8377.2	7948.1	5424.1
35°	8266.1	8271.1	8088.2	7784.0	7410.5	7154.3	7524.0	8905.9	9008.2	8721.7	5793.8
37.5°	9172.2	9208.8	9058.6	8579.1	8235.8	7945.6	8171.4	9620.2	9765.4	9666.9	6277.2
40°	9843.6	9920.6	9899.1	9381.7	9056.1	8849.1	8975.3	10469.5	10653.8	10767.4	6886.7
42.5°	10265.1	10323.2	10421.6	10109.9	9814.6	9848.6	9924.4	11459.0	11686.1	12021.8	7587.1
45°	10748.5	10776.2	10858.2	10720.7	10521.3	10864.6	10931.4	12573.3	12811.8	13370.9	8364.5
47.5°	11339.1	11404.7	11427.4	11301.2	11210.3	11763.1	11901.9	13586.7	13921.1	14815.9	9187.4
50°	12091.2	12108.9	12148.0	12066.0	11975.1	12535.4	12772.7	14650.6	14954.7	16265.9	9998.8
52.5°	12827.0	12890.1	13026.4	12974.6	12938.0	13192.9	13548.8	15609.7	15949.2	17474.9	10809.0
55°	13039.0	13093.2	13564.0	13885.8	14183.6	14003.1	14290.9	16469.1	16836.3	18555.2	11588.9
57.5°	12192.2	12302.0	13117.2	13955.2	15190.7	15262.6	15310.6	17351.2	17680.6	19383.1	12400.4
60°	10051.8	10073.3	11411.0	12848.4	15024.1	16361.8	16799.7	18299.0	18575.4	20154.1	13372.1
62.5°	6393.3	6611.6	8079.3	10108.6	13262.4	16202.8	18600.6	19732.6	19833.6	21079.2	14765.4
65°	3045.2	3186.5	4244.1	6245.6	9606.3	14167.2	19843.7	22326.0	22371.5	22912.9	16626.8
67.5°	1686.0	1754.2	2257.7	3362.0	5615.9	10019.0	19341.4	25397.7	25440.7	24785.7	18259.9
69°	1318.8	1376.8	1773.1	2534.1	3807.5	7201.0	17502.7	26297.5	26425.0	25322.0	18317.9
70°	1119.4	1176.2	1527.0	2140.4	3061.6	5564.2	15579.4	26074.2	26209.2	25271.5	17885.1
72.5°	685.3	718.1	1017.2	1506.8	2052.0	2799.1	9607.6	22050.9	22279.3	23181.7	15371.2
75°	461.9	479.6	636.0	1039.9	1467.7	1441.2	4991.2	15542.8	16037.5	18032.7	11352.9
77.5°	330.6	347.0	426.6	672.6	1028.5	951.5	2260.2	9659.3	9765.4	10815.3	6191.4
80°	188.0	203.2	301.6	400.1	697.9	634.8	898.5	4613.9	4666.9	4637.8	2067.2
82.5°	98.4	111.1	165.3	263.8	448.0	415.2	373.6	1544.7	1552.3	1291.0	453.1
85°	18.9	22.7	82.0	180.5	230.9	180.5	152.7	362.2	369.8	326.9	112.3
87.5°	0.0	1.3	32.8	40.4	45.4	46.7	49.2	70.7	75.7	102.2	30.3
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°	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8
2.5°	3037.6	2992.2	2905.1	2804.2	2725.9	2648.9	2588.4	2525.3	2502.5	2491.2	2489.9
5°	3067.9	2972.0	2787.8	2598.5	2443.2	2296.8	2192.1	2092.4	2045.7	2024.2	2015.4
7.5°	3118.4	2964.4	2667.9	2378.9	2155.5	1972.5	1827.4	1718.8	1664.6	1641.9	1633.0
10°	3177.7	2954.3	2527.8	2146.7	1861.4	1672.1	1528.3	1421.0	1361.7	1336.5	1323.8
12.5°	3247.1	2936.7	2366.2	1911.9	1610.3	1421.0	1246.9	1114.3	1046.2	1017.2	1003.3
15°	3332.9	2919.0	2197.1	1691.1	1389.5	1158.5	968.0	878.4	864.5	859.4	860.7
17.5°	3417.5	2891.2	2012.9	1472.8	1157.3	904.9	807.7	802.6	805.2	805.2	805.2
20°	3493.2	2828.1	1812.2	1286.0	936.4	763.5	743.3	734.5	728.2	723.1	716.8
22.5°	3552.5	2743.6	1619.1	1100.5	764.8	699.1	667.6	639.8	617.1	602.0	594.4
25°	3592.9	2631.3	1442.5	922.5	687.8	636.0	579.3	532.6	497.2	475.8	466.9
27.5°	3623.2	2510.1	1284.7	772.3	634.8	562.9	488.4	432.9	396.3	377.3	369.8
30°	3644.7	2372.6	1145.9	679.0	575.5	485.9	406.4	352.1	325.6	315.5	310.5
32.5°	3664.8	2219.9	1014.6	634.8	519.9	415.2	340.7	299.1	282.7	270.1	266.3
35°	3715.3	2078.5	889.7	588.1	463.2	354.6	292.8	262.5	246.1	238.5	236.0
37.5°	3835.2	1973.8	769.8	540.1	406.4	306.7	256.2	234.7	219.6	212.0	209.5
40°	4028.3	1920.8	668.9	488.4	350.8	270.1	232.2	212.0	195.6	184.3	181.7
42.5°	4312.3	1928.3	598.2	436.7	306.7	241.0	209.5	185.5	167.8	157.7	155.2
45°	4656.8	1983.9	549.0	386.2	270.1	218.3	184.3	159.0	142.6	133.8	131.2
47.5°	5030.3	2073.5	508.6	340.7	241.0	196.9	159.0	132.5	118.6	111.1	109.8
50°	5424.1	2160.5	466.9	296.6	215.8	175.4	133.8	109.8	98.4	92.1	89.6
52.5°	5822.9	2261.5	429.1	256.2	194.3	150.2	111.1	89.6	80.8	75.7	73.2
55°	6251.9	2337.2	392.5	224.6	172.9	127.5	92.1	74.5	66.9	60.6	59.3
57.5°	6756.7	2454.6	354.6	194.3	147.7	106.0	75.7	59.3	53.0	46.7	45.4
60°	7438.2	2592.1	314.2	171.6	121.2	87.1	61.8	48.0	40.4	35.3	34.1
62.5°	8336.8	2744.8	263.8	150.2	98.4	70.7	49.2	37.9	29.0	22.7	22.7
65°	9476.4	2993.5	215.8	126.2	80.8	58.1	37.9	27.8	16.4	10.1	10.1
67.5°	10141.4	3036.4	174.2	103.5	65.6	49.2	31.5	18.9	5.0	1.3	0.0
69°	9928.2	2787.8	147.7	88.3	56.8	46.7	29.0	13.9	2.5	0.0	0.0
70°	9526.8	2549.2	130.0	78.2	51.7	44.2	27.8	10.1	2.5	0.0	0.0
72.5°	7872.4	1814.8	98.4	58.1	37.9	39.1	25.2	6.3	2.5	0.0	0.0
75°	5734.5	1103.0	70.7	40.4	24.0	29.0	17.7	2.5	1.3	0.0	0.0
77.5°	3190.3	519.9	44.2	22.7	15.1	17.7	8.8	0.0	0.0	0.0	0.0
80°	1036.1	141.3	20.2	12.6	8.8	10.1	3.8	0.0	0.0	0.0	0.0
82.5°	191.8	40.4	11.4	6.3	2.5	2.5	0.0	0.0	0.0	0.0	0.0
85°	41.6	16.4	6.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	5.0	1.3	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)