

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: P383230

Luminaire Tested: **GAN-SA5C-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383230
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-SA5C-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA 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: 23427.5 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

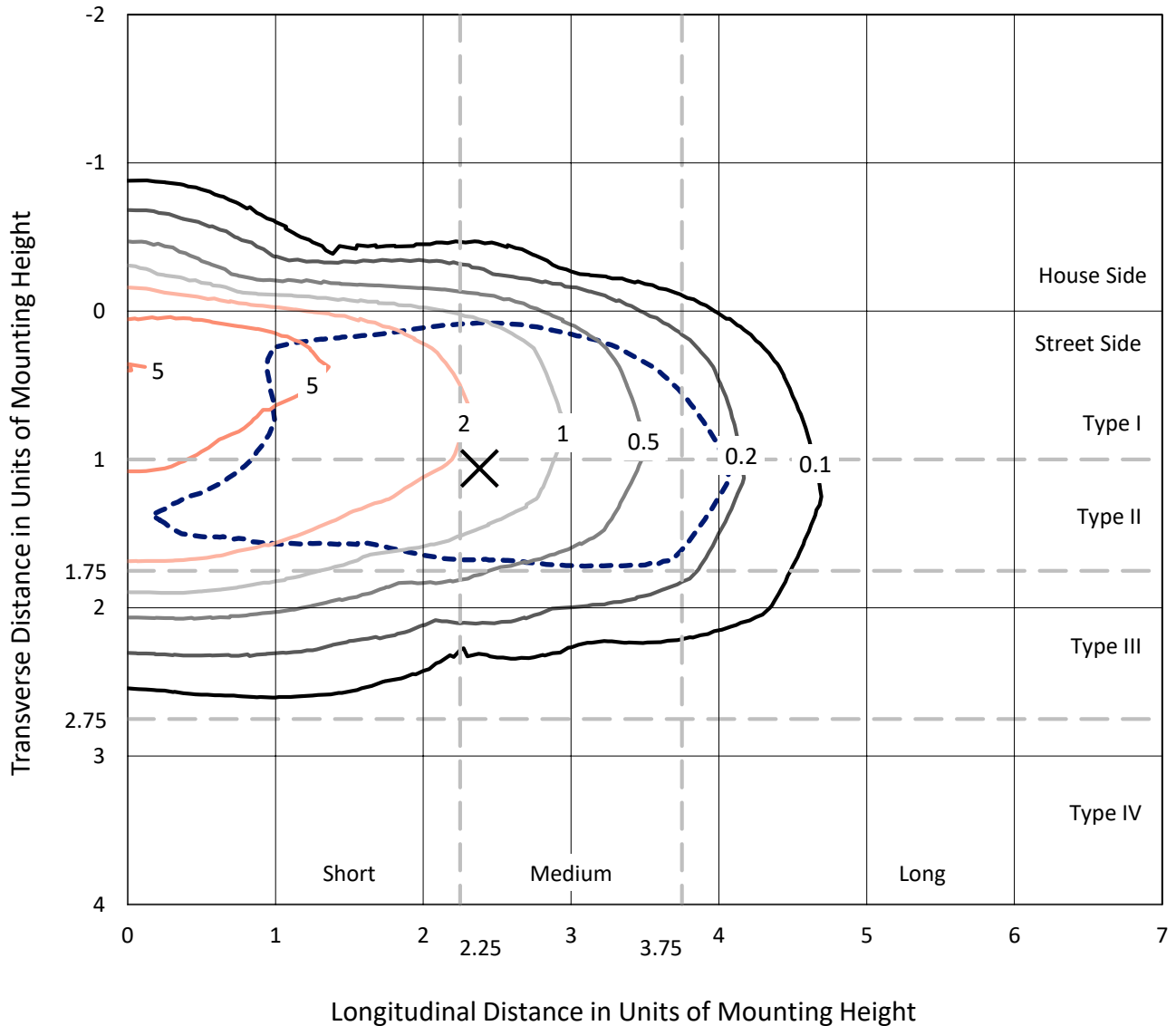
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

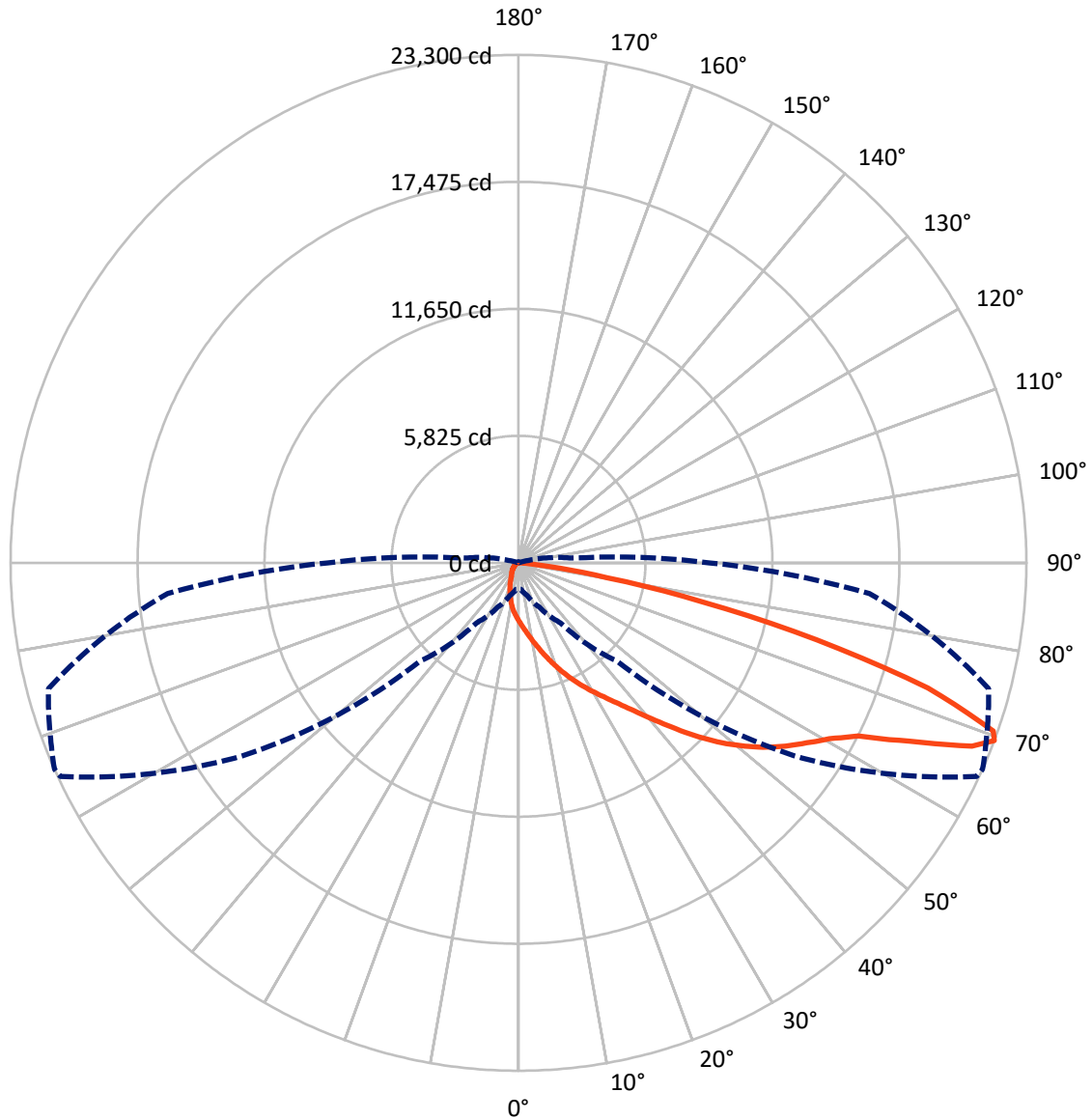
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	1405.3	0.0	1405.3
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	22022.2	0.0	22022.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	23427.5	0.0	23427.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.7	1.1
10°-20°	767.0	3.3
20°-30°	1335.6	5.7
30°-40°	2343.4	10.0
40°-50°	3922.5	16.7
50°-60°	5765.7	24.6
60°-70°	5919.9	25.3
70°-80°	2922.5	12.5
80°-90°	193.2	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°	23427.5	100.0
0°-180°	23427.5	100.0

Coefficient of Utilization

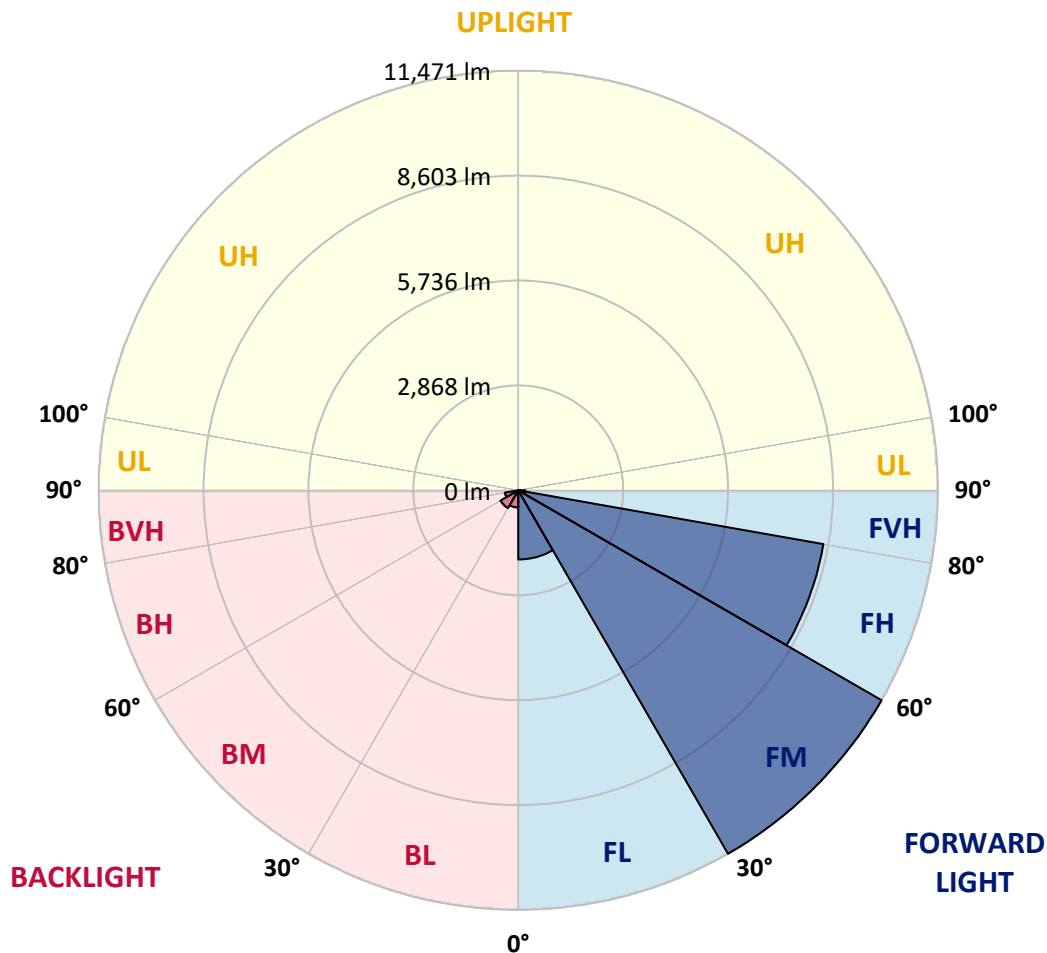


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1890.4	8.1			
FM (30°-60°)	11471.2	49.0			
FH (60°-80°)	8472.0	36.2			G4/12000
FVH (80°-90°)	188.6	0.8			G2/225
BL (0°-30°)	470.0	2.0	B1/500		
BM (30°-60°)	560.3	2.4	B1/1000		
BH (60°-80°)	370.3	1.6	B1/500		G1/500
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2666.1	2666.1	2666.1	2666.1	2666.1	2666.1	2666.1	2666.1	2666.1	2666.1	2666.1
2.5°	3137.9	3124.6	3119.0	3094.5	3052.2	3020.0	2957.7	2885.4	2872.0	2801.9	2716.2
5°	3545.2	3534.1	3526.3	3491.8	3448.4	3367.2	3253.6	3119.0	3093.4	2959.9	2788.5
7.5°	3828.9	3849.0	3849.0	3826.7	3772.2	3711.0	3571.9	3388.3	3356.0	3151.2	2885.4
10°	3994.8	4019.3	4038.2	4057.1	4049.3	4024.8	3893.5	3686.5	3647.6	3376.0	2997.7
12.5°	4010.3	4034.8	4088.2	4167.2	4243.9	4299.7	4217.3	4017.0	3972.5	3636.4	3131.2
15°	3923.5	3949.1	4031.5	4185.0	4370.8	4533.3	4560.0	4383.1	4337.5	3946.9	3298.1
17.5°	3772.2	3788.9	3906.8	4119.4	4410.9	4709.2	4870.5	4775.9	4733.6	4301.9	3484.0
20°	3659.8	3672.1	3775.6	4003.6	4386.4	4819.3	5164.2	5193.2	5148.7	4682.4	3685.4
22.5°	3852.3	3874.6	3877.9	3985.8	4319.7	4873.8	5422.4	5603.7	5570.4	5086.3	3883.4
25°	4378.6	4404.3	4319.7	4252.9	4376.4	4898.3	5643.8	6024.4	5997.7	5521.4	4082.6
27.5°	5074.0	5100.8	4991.8	4792.5	4673.5	4990.7	5840.8	6451.6	6450.6	5982.1	4297.4
30°	5757.3	5784.0	5672.8	5473.6	5199.8	5252.2	6011.0	6898.9	6905.7	6457.2	4525.6
32.5°	6473.9	6507.3	6392.7	6136.8	5850.8	5703.9	6250.2	7348.5	7386.3	7008.0	4782.6
35°	7288.4	7292.9	7131.6	6863.4	6534.0	6308.2	6634.1	7852.6	7942.7	7690.1	5108.6
37.5°	8087.4	8119.6	7987.3	7564.4	7261.7	7005.8	7205.0	8482.4	8610.4	8523.6	5534.8
40°	8679.3	8747.2	8728.3	8272.1	7985.0	7802.5	7913.8	9231.3	9393.7	9493.9	6072.2
42.5°	9051.0	9102.2	9189.0	8914.2	8653.8	8683.8	8750.6	10103.7	10303.9	10600.0	6689.8
45°	9477.2	9501.7	9574.0	9452.7	9276.9	9579.6	9638.5	11086.3	11296.5	11789.5	7375.2
47.5°	9997.9	10055.9	10075.9	9964.6	9884.5	10371.9	10494.3	11979.8	12274.6	13063.6	8100.7
50°	10661.2	10676.7	10711.2	10638.9	10558.8	11052.8	11262.0	12917.8	13186.0	14342.1	8816.3
52.5°	11309.9	11365.5	11485.7	11440.1	11407.8	11632.6	11946.4	13763.4	14062.8	15408.1	9530.6
55°	11496.8	11544.7	11959.8	12243.5	12506.1	12346.9	12600.7	14521.2	14845.0	16360.6	10218.3
57.5°	10750.2	10846.9	11565.8	12304.6	13394.1	13457.5	13499.7	15299.1	15589.4	17090.5	10933.8
60°	8862.9	8881.8	10061.4	11328.8	13247.2	14426.7	14812.8	16134.7	16378.4	17770.5	11790.6
62.5°	5637.2	5829.6	7123.7	8913.0	11693.8	14286.5	16400.6	17398.8	17487.8	18586.1	13019.0
65°	2685.0	2809.6	3742.1	5506.9	8470.2	12491.6	17496.7	19685.5	19725.5	20202.9	14660.3
67.5°	1486.7	1546.7	1990.7	2964.4	4951.7	8834.1	17053.8	22393.8	22431.8	21854.2	16100.2
69°	1162.9	1214.0	1563.4	2234.4	3357.1	6349.3	15432.6	23187.2	23299.7	22327.1	16151.5
70°	987.0	1037.1	1346.5	1887.2	2699.5	4906.1	13736.8	22990.3	23109.4	22282.6	15769.7
72.5°	604.2	633.2	896.9	1328.6	1809.3	2468.0	8471.3	19442.9	19644.3	20439.9	13553.2
75°	407.3	422.8	560.8	916.9	1294.1	1270.7	4400.9	13704.5	14140.7	15899.9	10010.2
77.5°	291.6	306.0	376.1	593.1	906.9	839.0	1993.0	8517.0	8610.4	9536.2	5459.1
80°	165.8	179.1	266.0	352.8	615.4	559.7	792.3	4068.2	4114.9	4089.3	1822.7
82.5°	86.8	97.9	145.8	232.6	395.0	366.1	329.4	1362.0	1368.6	1138.4	399.4
85°	16.7	20.0	72.3	159.1	203.6	159.1	134.6	319.3	326.0	288.2	99.0
87.5°	0.0	1.1	29.0	35.6	40.1	41.2	43.4	62.3	66.8	90.2	26.7
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°	2666.1	2666.1	2666.1	2666.1	2666.1	2666.1	2666.1	2666.1	2666.1	2666.1	2666.1
2.5°	2678.4	2638.3	2561.6	2472.5	2403.5	2335.7	2282.2	2226.6	2206.6	2196.6	2195.5
5°	2705.0	2620.5	2458.1	2291.1	2154.3	2025.2	1932.9	1844.9	1803.8	1784.8	1777.0
7.5°	2749.6	2613.8	2352.3	2097.5	1900.5	1739.2	1611.2	1515.5	1467.7	1447.7	1439.9
10°	2801.9	2604.9	2228.8	1892.8	1641.3	1474.4	1347.5	1252.9	1200.7	1178.4	1167.2
12.5°	2863.1	2589.3	2086.4	1685.8	1419.9	1252.9	1099.4	982.5	922.4	896.9	884.6
15°	2938.8	2573.8	1937.2	1491.0	1225.2	1021.5	853.5	774.5	762.2	757.8	758.9
17.5°	3013.3	2549.3	1774.8	1298.6	1020.4	797.9	712.2	707.7	709.9	709.9	709.9
20°	3080.1	2493.7	1597.9	1133.9	825.6	673.2	655.4	647.6	642.0	637.6	632.1
22.5°	3132.3	2419.1	1427.7	970.3	674.3	616.5	588.6	564.1	544.1	530.8	524.1
25°	3168.0	2320.0	1271.8	813.4	606.4	560.8	510.8	469.6	438.4	419.5	411.7
27.5°	3194.6	2213.3	1132.8	681.0	559.7	496.2	430.7	381.7	349.4	332.7	326.0
30°	3213.6	2092.0	1010.4	598.6	507.4	428.4	358.3	310.5	287.1	278.2	273.7
32.5°	3231.4	1957.3	894.7	559.7	458.4	366.1	300.4	263.7	249.3	238.1	234.7
35°	3275.9	1832.7	784.5	518.5	408.4	312.7	258.1	231.5	217.0	210.3	208.1
37.5°	3381.6	1740.3	678.7	476.2	358.3	270.4	225.9	207.0	193.6	187.0	184.7
40°	3551.9	1693.6	589.8	430.7	309.4	238.1	204.8	187.0	172.4	162.5	160.2
42.5°	3802.2	1700.3	527.4	385.0	270.4	212.6	184.7	163.6	148.0	139.1	136.8
45°	4106.0	1749.3	484.0	340.5	238.1	192.5	162.5	140.2	125.8	117.9	115.7
47.5°	4435.4	1828.3	448.4	300.4	212.6	173.5	140.2	116.8	104.6	97.9	96.8
50°	4782.6	1905.0	411.7	261.5	190.3	154.6	117.9	96.8	86.8	81.2	79.0
52.5°	5134.2	1994.1	378.3	225.9	171.4	132.4	97.9	79.0	71.2	66.8	64.6
55°	5512.5	2060.8	346.1	198.0	152.4	112.3	81.2	65.7	59.0	53.4	52.3
57.5°	5957.6	2164.3	312.7	171.4	130.2	93.4	66.8	52.3	46.8	41.2	40.1
60°	6558.5	2285.6	277.0	151.4	106.8	76.8	54.5	42.3	35.6	31.1	30.1
62.5°	7350.7	2420.3	232.6	132.4	86.8	62.3	43.4	33.3	25.6	20.0	20.0
65°	8355.5	2639.4	190.3	111.3	71.2	51.1	33.3	24.5	14.4	8.9	8.9
67.5°	8942.0	2677.3	153.5	91.2	57.8	43.4	27.9	16.7	4.5	1.1	0.0
69°	8753.9	2458.1	130.2	77.9	50.1	41.2	25.6	12.2	2.2	0.0	0.0
70°	8400.0	2247.7	114.6	69.0	45.6	38.9	24.5	8.9	2.2	0.0	0.0
72.5°	6941.2	1600.1	86.8	51.1	33.3	34.5	22.3	5.6	2.2	0.0	0.0
75°	5056.3	972.5	62.3	35.6	21.1	25.6	15.6	2.2	1.1	0.0	0.0
77.5°	2813.0	458.4	38.9	20.0	13.3	15.6	7.8	0.0	0.0	0.0	0.0
80°	913.6	124.6	17.8	11.1	7.8	8.9	3.4	0.0	0.0	0.0	0.0
82.5°	169.2	35.6	10.1	5.6	2.2	2.2	0.0	0.0	0.0	0.0	0.0
85°	36.7	14.4	5.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	4.5	1.1	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)