

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: P322832

Luminaire Tested: **GAN-SA8A-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24652 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
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

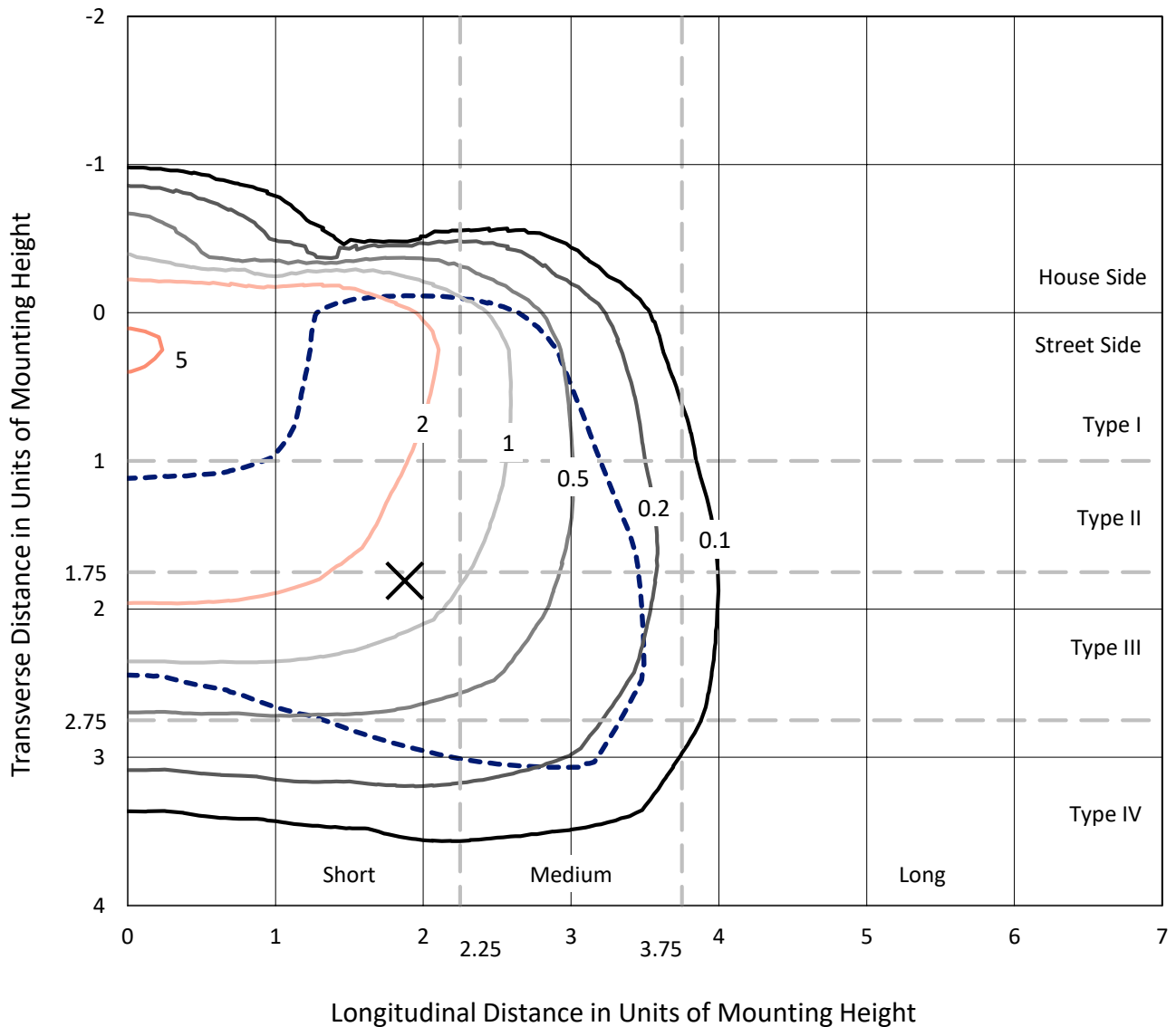




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Iso-Footcandle Lines of Horizontal Illumination

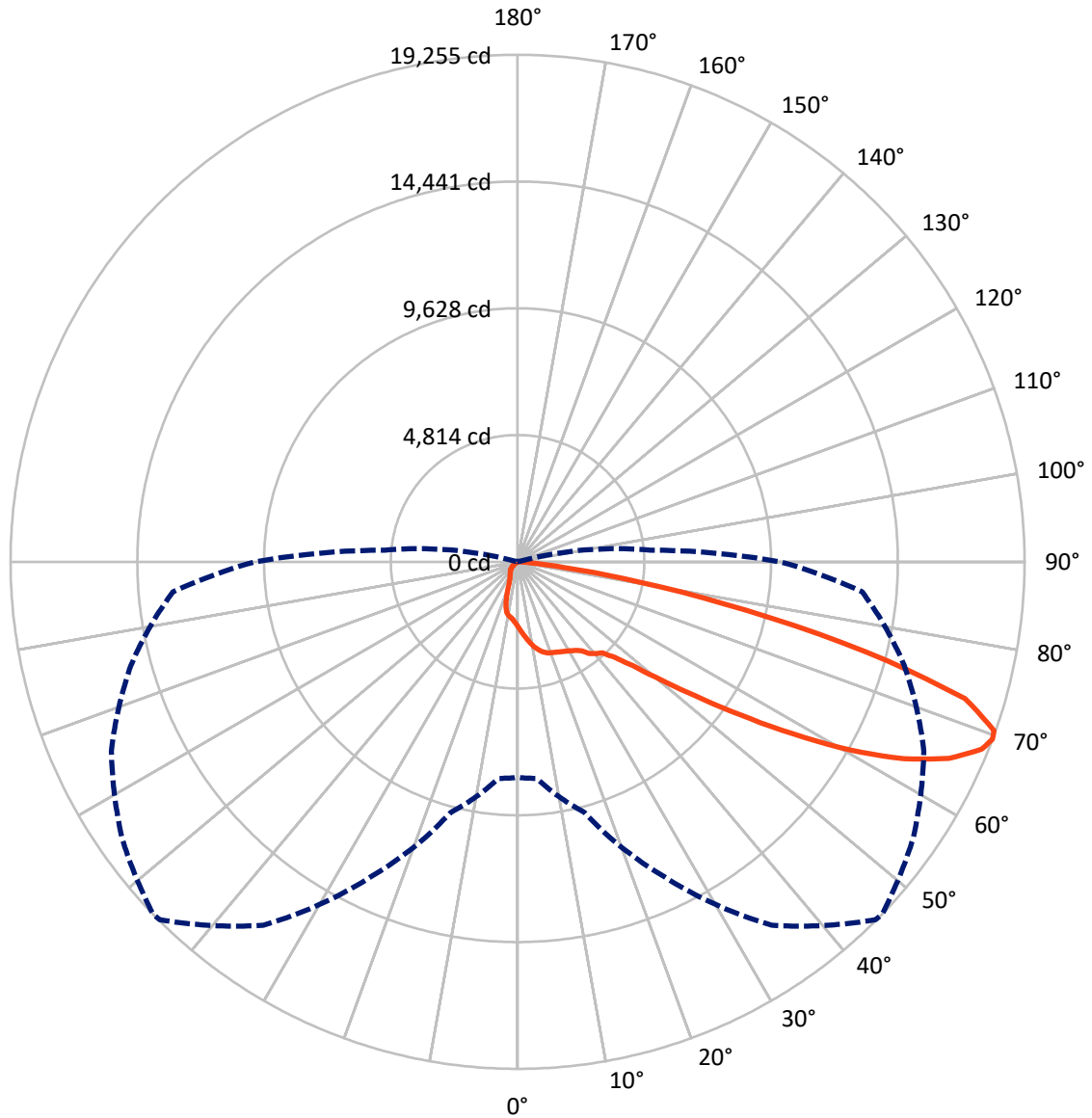
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2530.0	0.0	2530.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	22122.0	0.0	22122.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	24652.0	0.0	24652.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.9	1.0
10°-20°	745.9	3.0
20°-30°	1173.0	4.8
30°-40°	1682.1	6.8
40°-50°	2907.3	11.8
50°-60°	5743.6	23.3
60°-70°	8027.1	32.6
70°-80°	3878.0	15.7
80°-90°	249.3	1.0
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°	24652.0	100.0
0°-180°	24652.0	100.0

Coefficient of Utilization



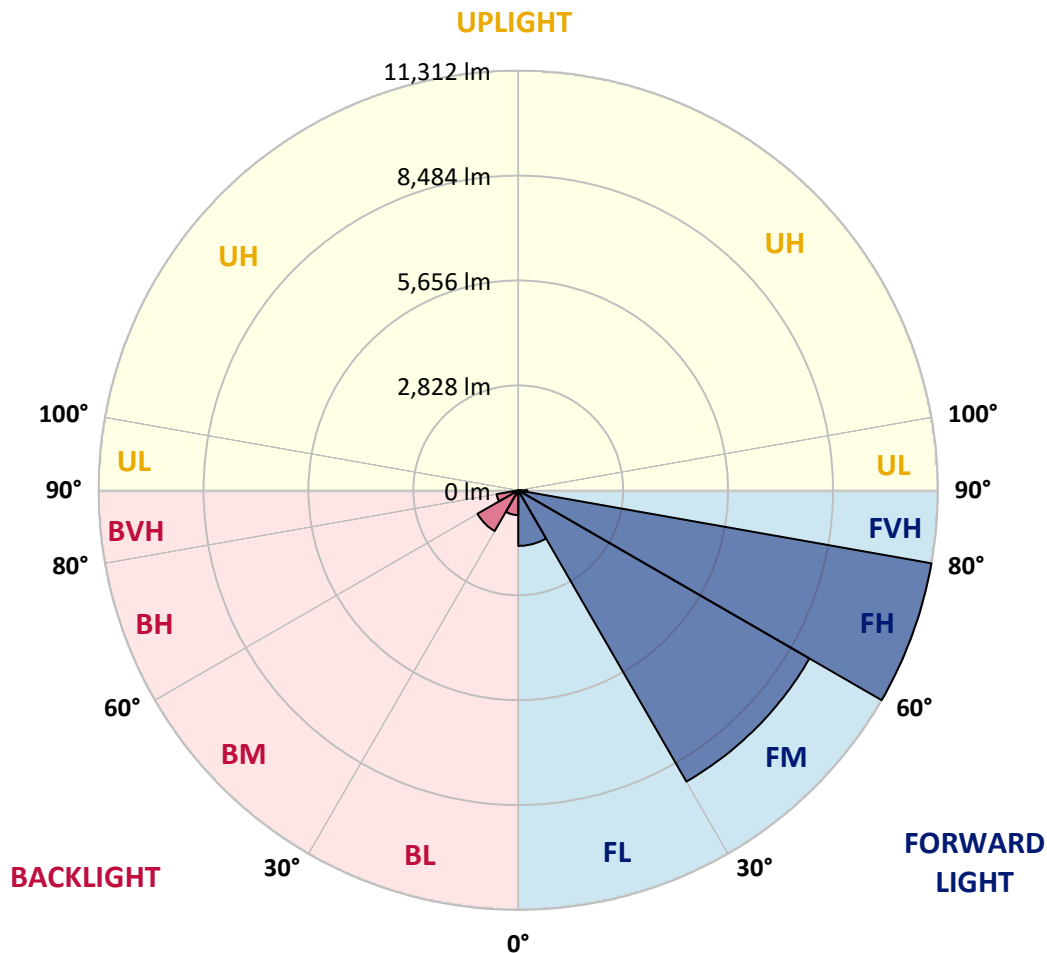
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1497.9	6.1			
FM (30°-60°)	9065.1	36.8			
FH (60°-80°)	11311.9	45.9			G4/12000
FVH (80°-90°)	247.2	1.0			G3/500
BL (0°-30°)	666.8	2.7	B2/1000		
BM (30°-60°)	1267.8	5.1	B2/2500		
BH (60°-80°)	593.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0
2.5°	2744.0	2740.5	2724.3	2717.4	2678.1	2655.0	2645.7	2616.8	2575.2	2533.6	2487.4
5°	3056.1	3054.9	3024.8	2995.9	2922.0	2852.6	2839.9	2772.9	2679.2	2591.4	2503.6
7.5°	3375.1	3360.0	3330.0	3274.5	3167.0	3056.1	3045.6	2950.9	2817.9	2690.8	2564.8
10°	3645.5	3636.3	3597.0	3512.6	3386.6	3260.6	3247.9	3131.2	2980.9	2824.9	2664.2
12.5°	3855.9	3849.0	3796.9	3691.8	3557.7	3427.1	3409.7	3305.7	3145.1	2970.5	2781.0
15°	3984.2	3980.7	3917.2	3805.0	3673.3	3560.0	3545.0	3453.7	3304.6	3121.9	2908.1
17.5°	4014.2	4015.4	3949.5	3836.2	3727.6	3646.7	3635.1	3565.8	3440.9	3259.5	3035.2
20°	3947.2	3961.1	3902.1	3803.9	3736.8	3694.1	3684.8	3643.2	3538.0	3367.0	3137.0
22.5°	3852.4	3859.4	3818.9	3753.0	3725.3	3733.4	3728.8	3705.6	3616.6	3459.4	3237.5
25°	3794.6	3794.6	3770.4	3714.9	3733.4	3783.1	3784.2	3779.6	3709.1	3572.7	3360.0
27.5°	3792.3	3785.4	3757.6	3716.0	3766.9	3843.2	3847.8	3879.0	3835.1	3710.3	3512.6
30°	3884.8	3876.7	3817.8	3763.4	3828.2	3910.2	3921.8	3990.0	3968.0	3859.4	3682.5
32.5°	4100.9	4072.0	3941.4	3852.4	3901.0	3999.2	4014.2	4122.9	4157.6	4043.1	3846.6
35°	4396.8	4305.5	4117.1	4021.2	4025.8	4128.7	4142.5	4302.1	4404.9	4211.9	3973.8
37.5°	4804.8	4759.8	4453.5	4196.9	4217.7	4373.7	4414.2	4587.5	4558.6	4304.4	4118.3
40°	5699.5	5629.0	5303.0	4689.3	4401.5	4572.5	4585.2	4677.7	4680.0	4513.6	4418.8
42.5°	6917.7	6888.8	6545.5	5582.7	4763.2	4705.4	4728.6	4884.6	5059.1	4955.1	4950.5
45°	8266.6	8251.6	7887.5	6768.6	5494.9	5141.2	5170.1	5379.3	5713.3	5736.5	5883.2
47.5°	9351.9	9345.0	9135.8	8092.1	6614.9	5879.8	5889.0	6110.9	6698.1	6988.2	7222.9
50°	10341.3	10374.9	10209.6	9524.2	8140.6	7036.8	7014.8	7162.8	8105.9	8581.0	8872.3
52.5°	11716.8	11764.2	11300.7	10860.3	9741.5	8472.3	8455.0	8609.9	9798.1	10154.1	10206.1
55°	12931.6	12850.7	12484.3	12357.1	11693.7	10245.4	10240.8	10377.2	11434.8	11586.2	11682.1
57.5°	13467.9	13436.7	13613.5	13904.8	13738.4	12340.9	12330.5	12226.5	12899.2	12915.4	13210.1
60°	13806.6	13844.7	14386.8	15284.9	15699.8	14596.0	14529.0	13894.4	14297.8	14262.0	14577.5
62.5°	13552.3	13627.4	14602.9	16099.7	17167.7	16564.4	16469.6	15422.4	15492.9	15369.3	15662.8
65°	12202.2	12319.0	13917.5	15946.0	17895.9	18102.8	18006.9	16771.3	16441.9	16238.4	16075.5
67.5°	9907.9	9977.2	11646.3	14608.7	17567.7	19020.6	19000.9	17953.7	17158.5	16091.7	14827.2
69°	8188.0	8256.2	9862.8	13200.9	16845.3	19217.1	19255.2	18332.8	17022.1	15199.3	13137.3
70°	6935.1	7007.9	8504.7	11994.2	16007.3	19125.7	19193.9	18297.0	16631.4	14166.0	11654.4
72.5°	3637.4	3699.9	5236.0	8263.1	13049.5	17561.9	17768.8	16750.5	14097.8	10288.2	6891.1
75°	1143.1	1179.0	2044.7	4319.4	8934.7	13655.1	13702.5	13139.6	10010.8	5659.0	2870.0
77.5°	435.8	425.4	680.8	1591.6	4517.0	8598.3	8888.4	8211.1	5253.3	2000.8	662.3
80°	234.6	235.8	353.7	658.8	1932.6	4418.8	4663.8	3979.6	1866.7	624.2	152.6
82.5°	101.7	106.3	198.8	349.1	887.7	1629.7	1752.3	1458.7	713.2	419.6	56.6
85°	22.0	24.3	95.9	189.6	361.8	457.7	479.7	472.7	454.2	325.9	22.0
87.5°	0.0	0.0	42.8	68.2	91.3	104.0	91.3	119.1	250.8	219.6	11.6
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°	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0
2.5°	2472.3	2451.5	2415.7	2376.4	2348.7	2319.8	2296.7	2286.3	2274.7	2266.6	2277.0
5°	2467.7	2427.3	2357.9	2290.9	2242.3	2203.0	2170.7	2158.0	2145.2	2136.0	2134.8
7.5°	2508.2	2451.5	2345.2	2247.0	2171.8	2118.7	2074.7	2056.2	2041.2	2034.3	2028.5
10°	2585.6	2512.8	2370.6	2242.3	2145.2	2055.1	1960.3	1887.5	1840.1	1818.1	1810.1
12.5°	2686.2	2594.9	2419.2	2266.6	2125.6	1952.2	1751.1	1577.7	1465.6	1428.6	1406.7
15°	2804.1	2690.8	2482.8	2297.8	2053.9	1737.2	1396.3	1169.7	1065.7	1044.9	1021.8
17.5°	2917.3	2792.5	2559.0	2303.6	1896.7	1388.2	1022.9	869.2	828.7	842.6	846.1
20°	3016.8	2893.1	2634.2	2252.7	1611.2	1041.4	791.8	753.6	768.6	795.2	799.8
22.5°	3117.3	2990.2	2703.5	2118.7	1246.0	790.6	713.2	722.4	737.4	764.0	768.6
25°	3239.8	3108.1	2768.2	1872.5	935.1	672.7	677.3	691.2	706.2	730.5	732.8
27.5°	3380.8	3257.2	2811.0	1552.3	693.5	618.4	633.4	654.2	669.2	692.4	697.0
30°	3568.1	3453.7	2824.9	1220.6	581.4	569.8	576.8	602.2	624.2	645.0	648.4
32.5°	3743.8	3647.8	2778.6	921.2	538.6	524.8	524.8	539.8	565.2	584.9	589.5
35°	3905.6	3843.2	2630.7	673.9	506.3	483.1	471.6	471.6	487.8	503.9	508.6
37.5°	4119.4	4117.1	2391.4	537.5	475.1	448.5	424.2	405.7	399.9	403.4	405.7
40°	4485.8	4489.3	2079.4	482.0	448.5	412.6	375.6	342.1	310.9	300.5	299.4
42.5°	5058.0	5006.0	1752.3	455.4	425.4	375.6	320.2	275.1	226.5	211.5	210.4
45°	5966.5	5657.9	1405.5	431.1	401.1	334.0	264.7	203.4	164.1	152.6	152.6
47.5°	7289.9	6514.3	1088.8	404.5	368.7	286.6	200.0	146.8	120.2	114.4	115.6
50°	8658.4	7353.5	834.5	371.0	329.4	236.9	147.9	106.3	91.3	91.3	92.5
52.5°	9872.1	7968.4	650.7	335.2	280.9	186.1	112.1	83.2	76.3	75.1	76.3
55°	11008.3	8364.8	498.2	293.6	223.1	138.7	85.5	68.2	63.6	61.3	60.1
57.5°	12104.0	8561.3	373.3	236.9	161.8	100.6	68.2	57.8	53.2	49.7	48.5
60°	12833.3	8401.8	256.6	174.5	112.1	72.8	56.6	49.7	43.9	40.5	39.3
62.5°	13244.8	7966.1	165.3	126.0	79.8	54.3	45.1	41.6	33.5	30.1	30.1
65°	13078.4	7247.1	115.6	90.2	57.8	40.5	33.5	33.5	24.3	19.6	18.5
67.5°	11589.6	6122.5	87.8	67.0	41.6	30.1	25.4	28.9	15.0	9.2	9.2
69°	9971.5	5074.2	75.1	55.5	34.7	24.3	22.0	26.6	10.4	6.9	5.8
70°	8666.5	4377.2	68.2	48.5	28.9	20.8	19.6	25.4	10.4	5.8	4.6
72.5°	5185.1	2441.1	52.0	34.7	18.5	16.2	16.2	28.9	10.4	5.8	4.6
75°	2095.5	859.9	38.1	24.3	13.9	13.9	19.6	37.0	9.2	4.6	3.5
77.5°	475.1	188.4	22.0	15.0	9.2	13.9	23.1	28.9	5.8	2.3	0.0
80°	115.6	46.2	13.9	9.2	5.8	10.4	17.3	16.2	1.2	0.0	0.0
82.5°	38.1	16.2	5.8	4.6	1.2	3.5	8.1	4.6	0.0	0.0	0.0
85°	16.2	9.2	2.3	1.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0
87.5°	10.4	3.5	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)