

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: P323471

Luminaire Tested: **GAN-SA7A-730-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25645 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

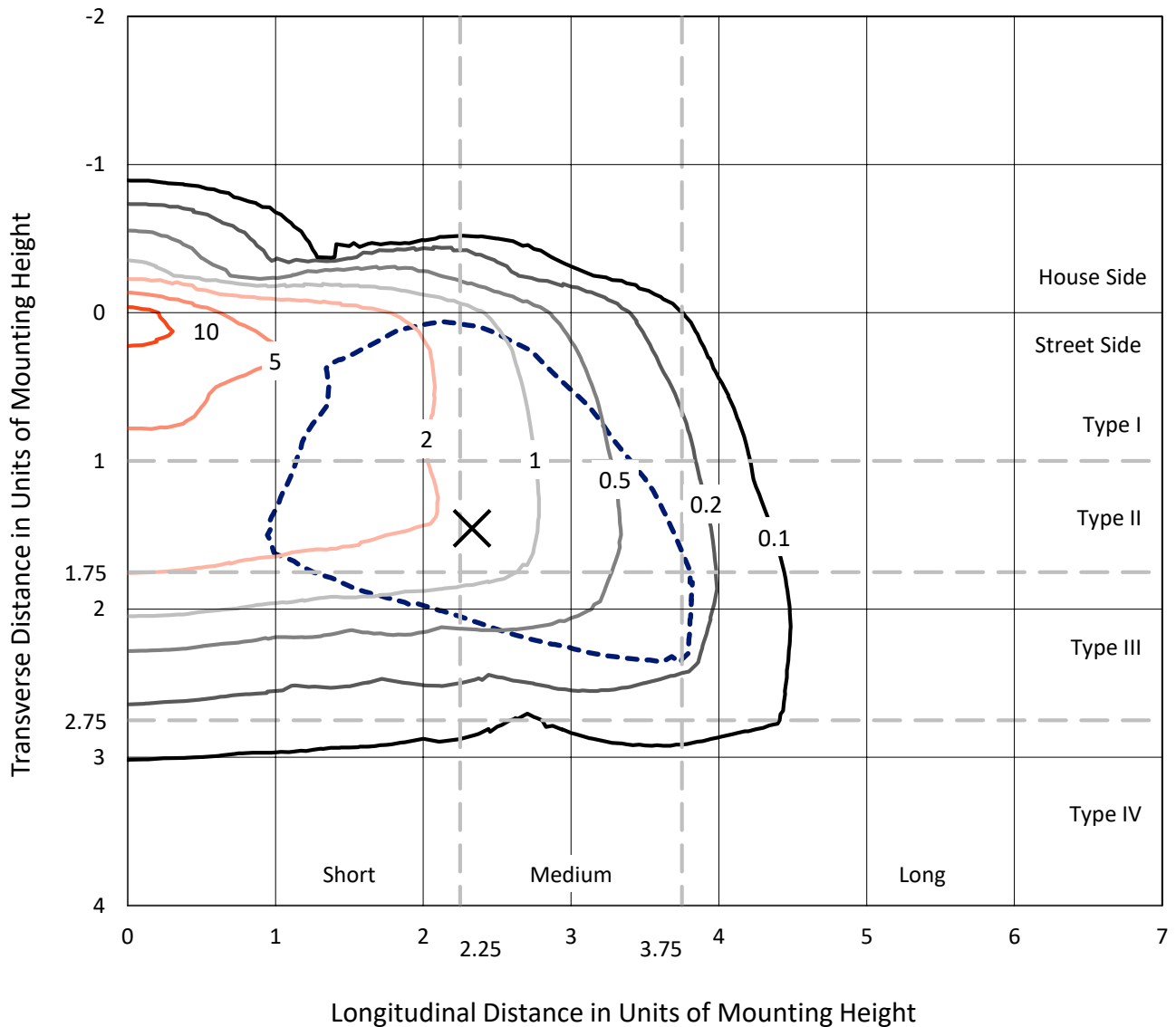
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

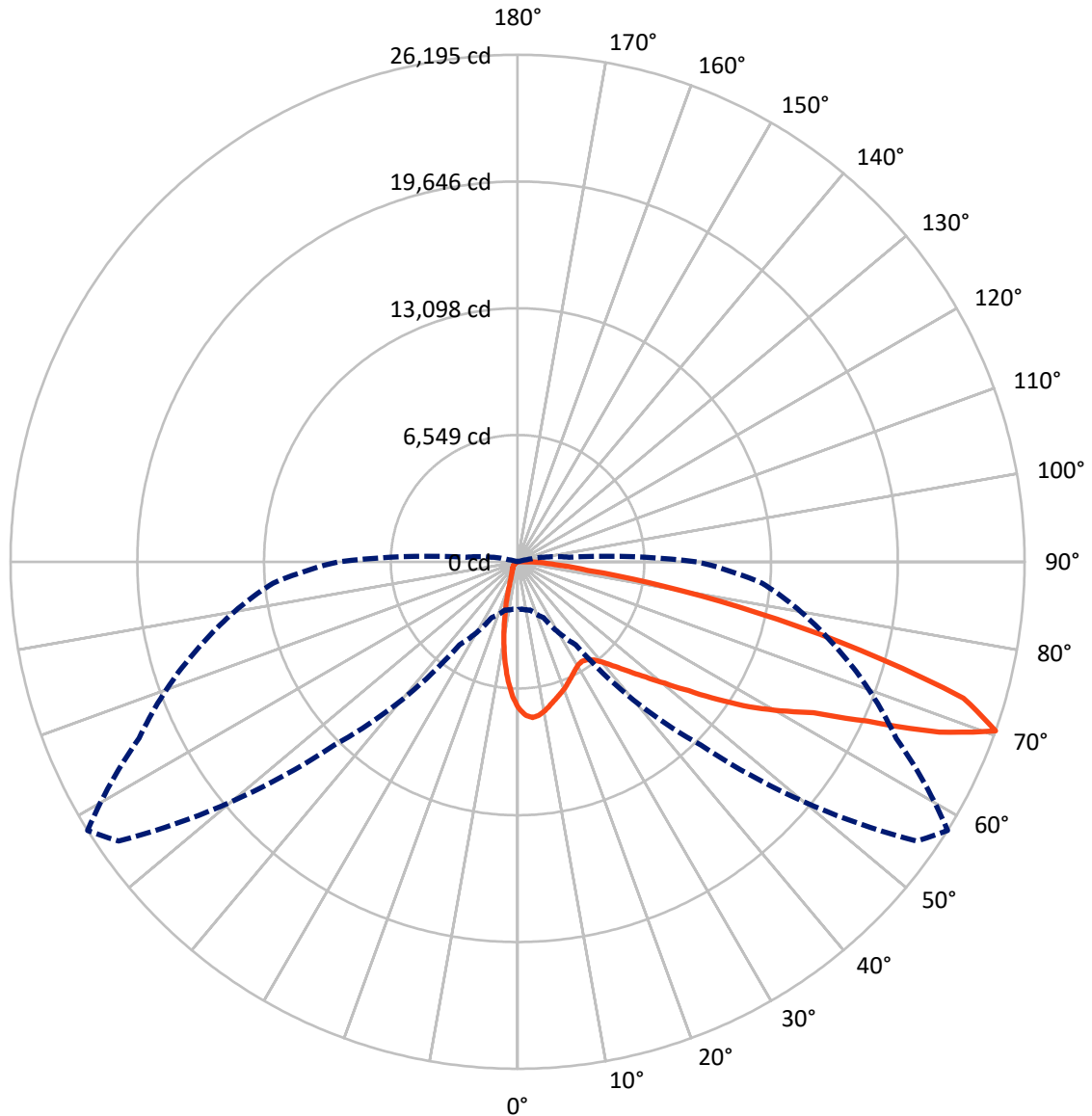
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2194.7	0.0	2194.7
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	23450.4	0.0	23450.4
	% Fixture	91.4	0.0	91.4
Total	Lumens	25645.0	0.0	25645.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.5	2.4
10°-20°	1300.1	5.1
20°-30°	1709.2	6.7
30°-40°	2263.7	8.8
40°-50°	3383.5	13.2
50°-60°	5420.2	21.1
60°-70°	6832.2	26.6
70°-80°	3685.2	14.4
80°-90°	431.4	1.7
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°	25645.0	100.0
0°-180°	25645.0	100.0

Coefficient of Utilization

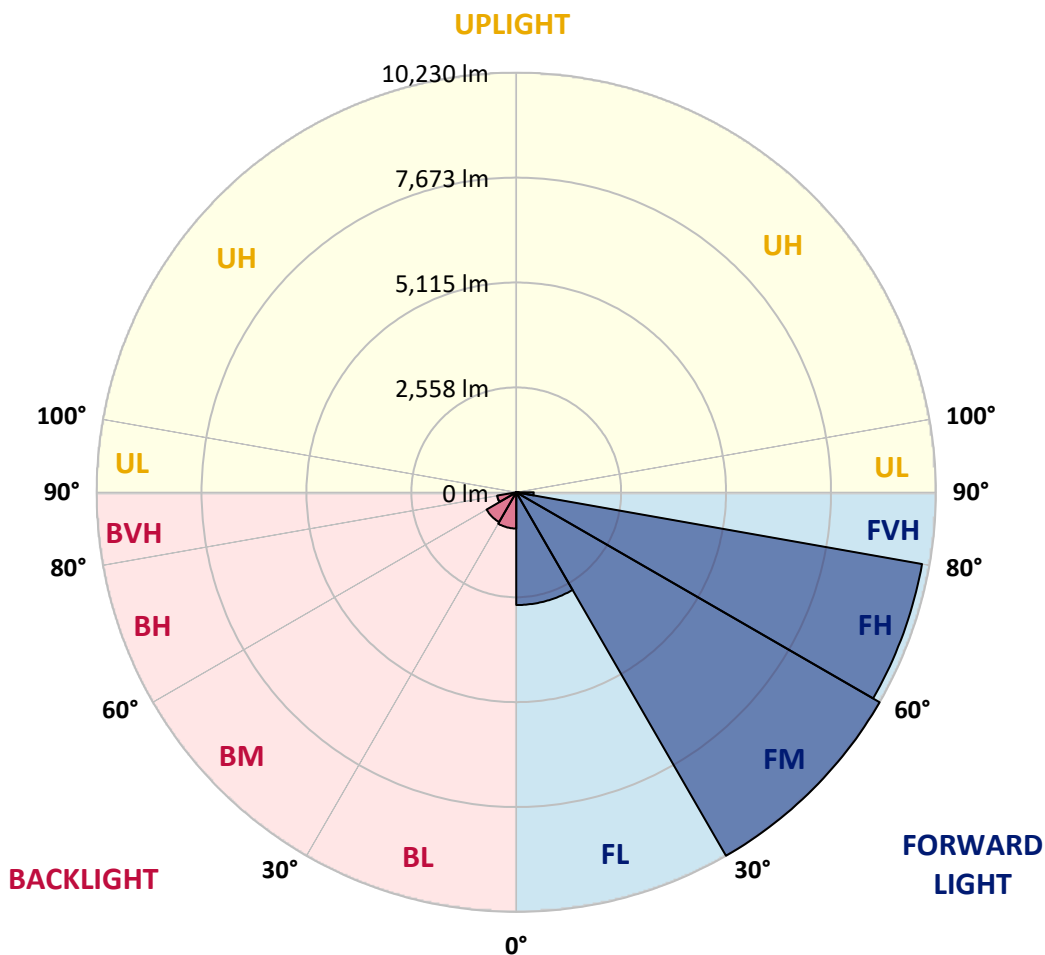


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2747.1	10.7			
FM (30°-60°)	10230.2	39.9			
FH (60°-80°)	10045.4	39.2			G4/12000
FVH (80°-90°)	427.6	1.7			G3/500
BL (0°-30°)	881.7	3.4	B2/1000		
BM (30°-60°)	837.2	3.3	B1/1000		
BH (60°-80°)	472.0	1.8	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: B2-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7575.4	7575.4	7575.4	7575.4	7575.4	7575.4	7575.4	7575.4	7575.4	7575.4	7575.4
2.5°	8203.5	8183.2	8175.8	8163.0	8113.9	8065.9	7971.0	7944.4	7884.7	7742.8	7592.5
5°	8209.9	8208.8	8231.2	8225.9	8208.8	8186.4	8118.2	8083.0	7981.7	7779.1	7504.0
7.5°	7814.3	7834.5	7884.7	7925.2	7972.1	8032.9	8041.4	8007.3	7924.1	7705.5	7340.8
10°	7283.2	7315.2	7385.6	7465.6	7588.2	7709.8	7818.5	7814.3	7785.5	7570.1	7144.6
12.5°	6751.1	6788.4	6869.5	6987.8	7161.7	7360.0	7554.1	7580.7	7628.7	7448.5	6963.3
15°	6285.1	6317.1	6397.1	6542.1	6757.5	7024.1	7308.8	7357.9	7481.6	7353.6	6811.9
17.5°	5889.5	5909.8	5968.4	6129.4	6379.0	6702.1	7072.1	7168.1	7352.5	7279.0	6680.7
20°	5613.3	5616.5	5654.9	5767.9	6017.5	6379.0	6826.8	6964.4	7216.0	7215.0	6545.3
22.5°	5476.8	5466.2	5473.6	5538.7	5722.1	6070.8	6581.6	6744.7	7093.4	7160.6	6407.7
25°	5451.2	5442.7	5421.4	5429.9	5540.8	5801.0	6334.2	6522.9	6985.7	7127.5	6288.3
27.5°	5531.2	5539.7	5503.5	5465.1	5473.6	5626.1	6114.5	6333.1	6898.3	7127.5	6204.1
30°	5692.2	5696.5	5669.8	5619.7	5552.5	5577.1	5962.0	6180.6	6854.6	7176.6	6150.8
32.5°	5870.3	5893.8	5890.6	5850.0	5754.1	5654.9	5925.8	6125.2	6851.4	7285.4	6145.4
35°	6091.0	6117.7	6162.5	6154.0	6053.7	5890.6	6049.5	6206.2	6914.3	7464.5	6203.0
37.5°	6325.6	6366.2	6462.1	6508.0	6442.9	6258.5	6326.7	6438.7	7082.8	7754.6	6349.1
40°	6552.8	6598.6	6773.5	6953.7	6904.7	6714.9	6746.9	6836.4	7382.4	8171.5	6626.4
42.5°	6775.6	6843.9	7100.9	7397.3	7456.0	7304.6	7321.6	7393.1	7827.1	8745.2	7079.6
45°	7042.2	7119.0	7499.7	7865.5	8022.2	7956.1	8028.6	8075.5	8408.2	9503.4	7690.6
47.5°	7433.6	7522.1	7989.2	8406.1	8681.2	8723.9	8870.0	8900.9	9143.0	10386.3	8487.1
50°	8197.1	8221.6	8643.9	9022.5	9419.1	9675.1	9841.4	9864.9	10032.3	11351.4	9482.1
52.5°	9157.9	9173.9	9412.7	9666.5	10117.6	10640.1	11029.3	11062.4	11097.6	12291.9	10464.2
55°	10112.3	10110.1	10268.0	10417.3	10933.4	11692.6	12537.2	12557.4	12304.7	13184.5	11214.9
57.5°	10708.4	10766.0	11005.9	11197.8	11918.7	12892.3	14064.2	14138.8	13572.6	13845.6	11957.1
60°	10518.6	10546.3	11078.4	11788.6	13146.1	14597.4	15609.4	15628.6	14525.9	14505.7	12895.5
62.5°	8961.7	8976.6	9812.6	11276.7	13767.8	16809.0	17473.4	17160.9	15622.2	15421.7	14018.4
65°	6142.2	6239.3	6937.7	8747.3	12625.7	18196.3	20358.9	19841.7	17293.1	16741.8	15033.5
67.5°	3617.1	3596.8	3942.3	5275.3	9273.1	17275.0	24009.1	23495.1	19571.9	17625.8	14736.0
70°	2470.8	2456.9	2589.1	3193.7	5234.8	13400.9	25157.5	26195.1	21584.2	17030.8	12682.2
72.5°	1763.8	1771.2	1966.4	2481.4	3286.5	7807.9	21634.3	24090.1	20953.9	14846.9	9639.9
75°	1197.5	1217.8	1497.2	2035.7	2881.3	3972.2	15352.4	18312.6	17062.8	10790.5	5540.8
77.5°	644.1	666.5	996.0	1640.1	2605.1	2759.7	9875.5	12603.3	10718.0	4850.9	1605.9
80°	268.7	281.5	466.0	1192.2	2251.1	2423.8	5810.6	7642.6	4567.2	956.5	358.3
82.5°	116.2	122.6	194.1	711.3	1682.7	2046.3	3076.4	3676.8	1384.1	210.1	180.2
85°	22.4	23.5	80.0	376.4	1073.8	1154.9	1994.1	1954.6	621.7	90.6	131.2
87.5°	0.0	0.0	19.2	118.4	315.6	629.2	1216.7	1201.8	211.1	43.7	49.1
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°	7575.4	7575.4	7575.4	7575.4	7575.4	7575.4	7575.4	7575.4	7575.4	7575.4	7575.4
2.5°	7515.7	7442.1	7287.5	7096.6	6950.5	6789.5	6661.5	6499.5	6429.1	6432.3	6393.9
5°	7347.2	7195.8	6853.5	6421.6	6088.9	5745.5	5450.2	5155.8	4982.0	4925.5	4872.2
7.5°	7106.2	6866.3	6320.3	5654.9	5091.9	4541.6	4062.8	3641.6	3375.0	3244.9	3196.9
10°	6834.3	6497.3	5707.2	4830.6	4026.6	3282.3	2661.6	2122.1	1906.6	1760.6	1723.2
12.5°	6595.4	6139.0	5107.9	3985.0	3030.6	2132.7	1540.9	1205.0	1058.9	1001.3	991.7
15°	6370.4	5804.2	4531.0	3219.3	2098.6	1312.7	980.0	865.9	831.8	822.2	822.2
17.5°	6158.2	5485.3	3966.9	2465.4	1388.4	920.3	811.5	785.9	775.2	774.2	775.2
20°	5936.4	5166.5	3412.3	1806.4	969.3	779.5	749.7	735.8	732.6	732.6	732.6
22.5°	5724.2	4847.7	2872.8	1290.3	777.4	711.3	696.3	686.7	683.5	682.5	680.3
25°	5520.5	4544.8	2346.0	911.7	682.5	651.5	638.7	626.0	616.4	611.0	607.8
27.5°	5353.1	4275.0	1855.5	731.5	616.4	589.7	573.7	554.5	531.0	520.4	516.1
30°	5219.8	4028.7	1430.0	617.4	554.5	527.8	503.3	470.3	436.1	418.0	416.9
32.5°	5115.3	3786.6	1085.6	546.0	499.1	466.0	430.8	389.2	349.8	329.5	328.4
35°	5064.1	3573.4	829.6	493.7	450.0	408.4	364.7	318.8	280.5	261.3	259.1
37.5°	5098.3	3393.2	647.3	450.0	408.4	360.4	309.2	261.3	227.1	210.1	209.0
40°	5223.0	3278.0	525.7	412.7	373.2	314.6	259.1	214.3	185.5	171.7	170.6
42.5°	5488.5	3235.3	448.9	381.8	339.1	271.9	215.4	177.0	150.4	140.8	138.6
45°	5932.2	3298.2	396.7	351.9	303.9	231.4	178.1	145.0	121.6	114.1	113.0
47.5°	6522.9	3463.5	359.4	323.1	271.9	195.1	148.2	117.3	99.2	91.7	90.6
50°	7284.3	3725.9	328.4	294.3	242.1	165.3	122.6	92.8	76.8	71.4	71.4
52.5°	8112.9	4038.3	300.7	267.7	212.2	137.6	99.2	71.4	60.8	54.4	54.4
55°	8797.5	4311.3	270.9	247.4	175.9	114.1	75.7	54.4	44.8	41.6	41.6
57.5°	9481.0	4602.4	236.7	212.2	140.8	92.8	57.6	40.5	33.1	30.9	30.9
60°	10367.1	4958.6	203.7	172.8	110.9	70.4	42.7	28.8	24.5	23.5	23.5
62.5°	11341.8	5167.6	173.8	138.6	86.4	52.3	30.9	19.2	18.1	18.1	17.1
65°	11937.9	4872.2	146.1	110.9	67.2	39.5	20.3	13.9	16.0	14.9	12.8
67.5°	11177.6	3814.4	119.4	86.4	52.3	29.9	12.8	9.6	17.1	13.9	10.7
70°	9254.9	2670.2	92.8	60.8	41.6	25.6	8.5	6.4	18.1	13.9	8.5
72.5°	6926.0	1787.2	73.6	40.5	30.9	22.4	7.5	3.2	16.0	11.7	7.5
75°	3784.5	719.8	58.6	25.6	19.2	16.0	5.3	2.1	10.7	8.5	5.3
77.5°	996.0	189.8	42.7	17.1	10.7	6.4	3.2	1.1	5.3	4.3	2.1
80°	253.8	73.6	27.7	11.7	7.5	3.2	0.0	0.0	1.1	0.0	0.0
82.5°	135.4	30.9	17.1	8.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	102.4	20.3	9.6	5.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	39.5	6.4	3.2	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)