

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: P321549

Luminaire Tested: **GAN-SA5A-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321549
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-SA5A-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 16313 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

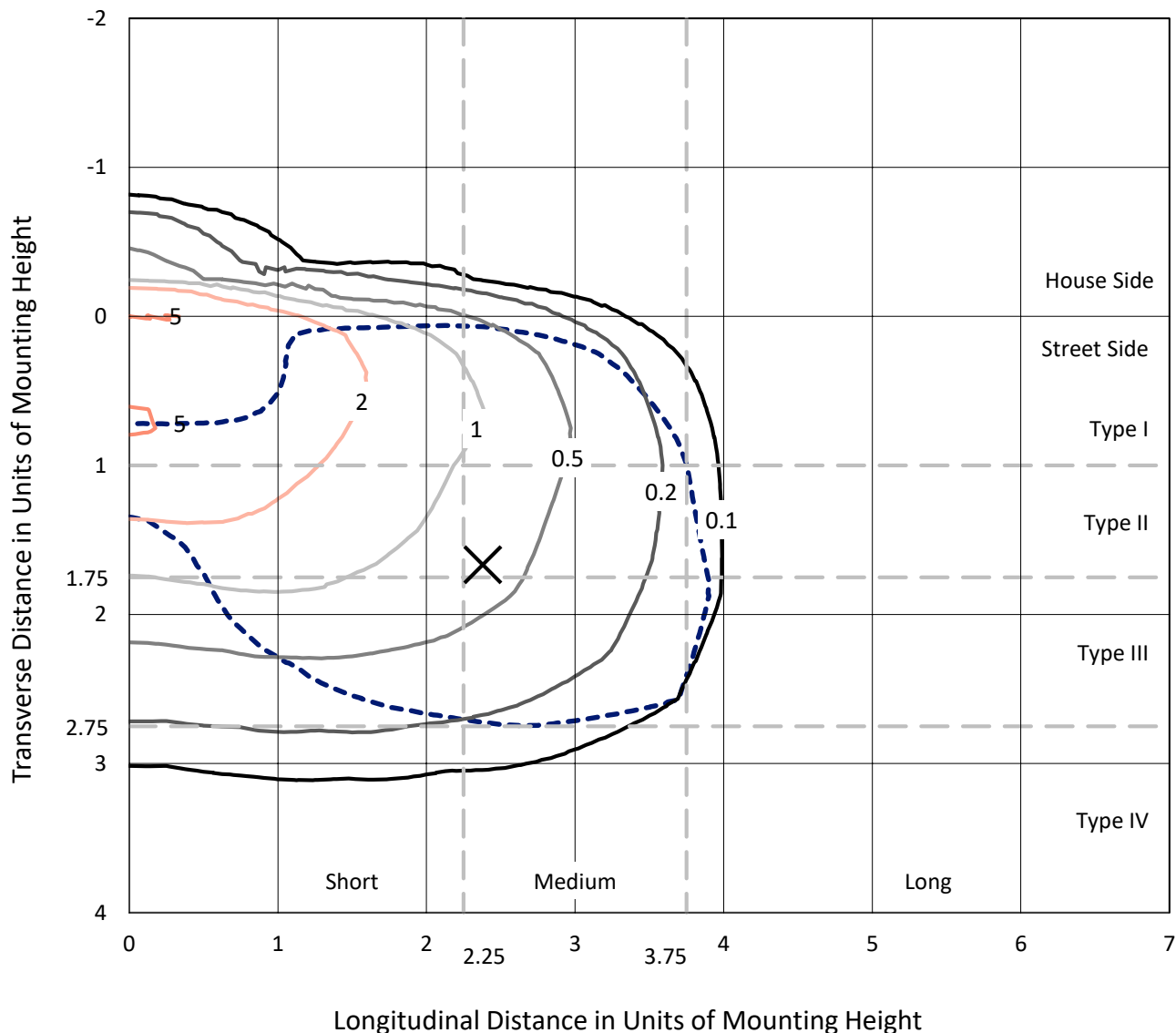
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

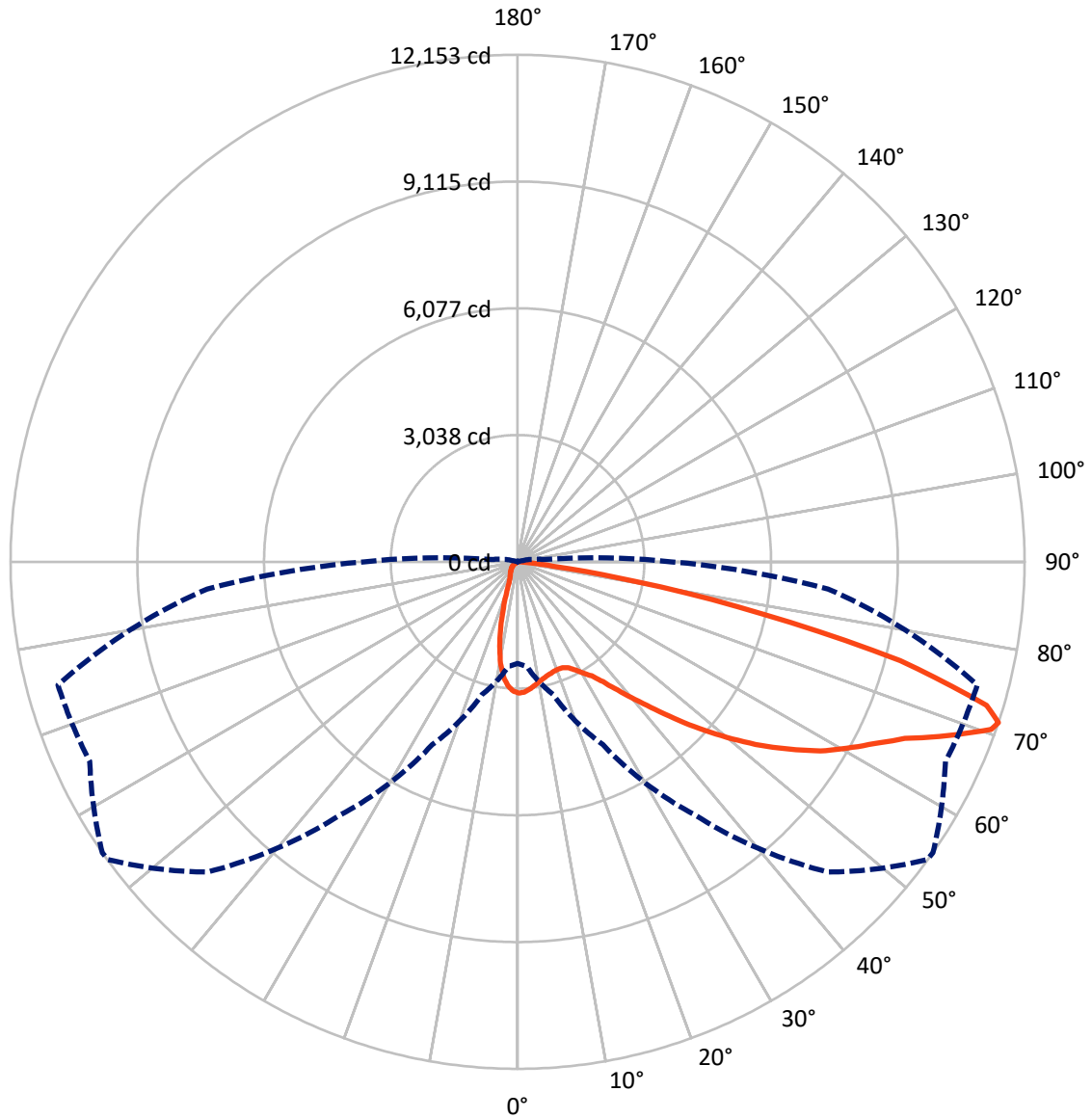
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	1291.5	0.0	1291.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	15021.5	0.0	15021.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	16313.0	0.0	16313.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.2	1.6
10°-20°	605.6	3.7
20°-30°	973.2	6.0
30°-40°	1653.5	10.1
40°-50°	2566.4	15.7
50°-60°	3450.5	21.2
60°-70°	4221.0	25.9
70°-80°	2468.0	15.1
80°-90°	106.7	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°	16313.0	100.0
0°-180°	16313.0	100.0

Coefficient of Utilization

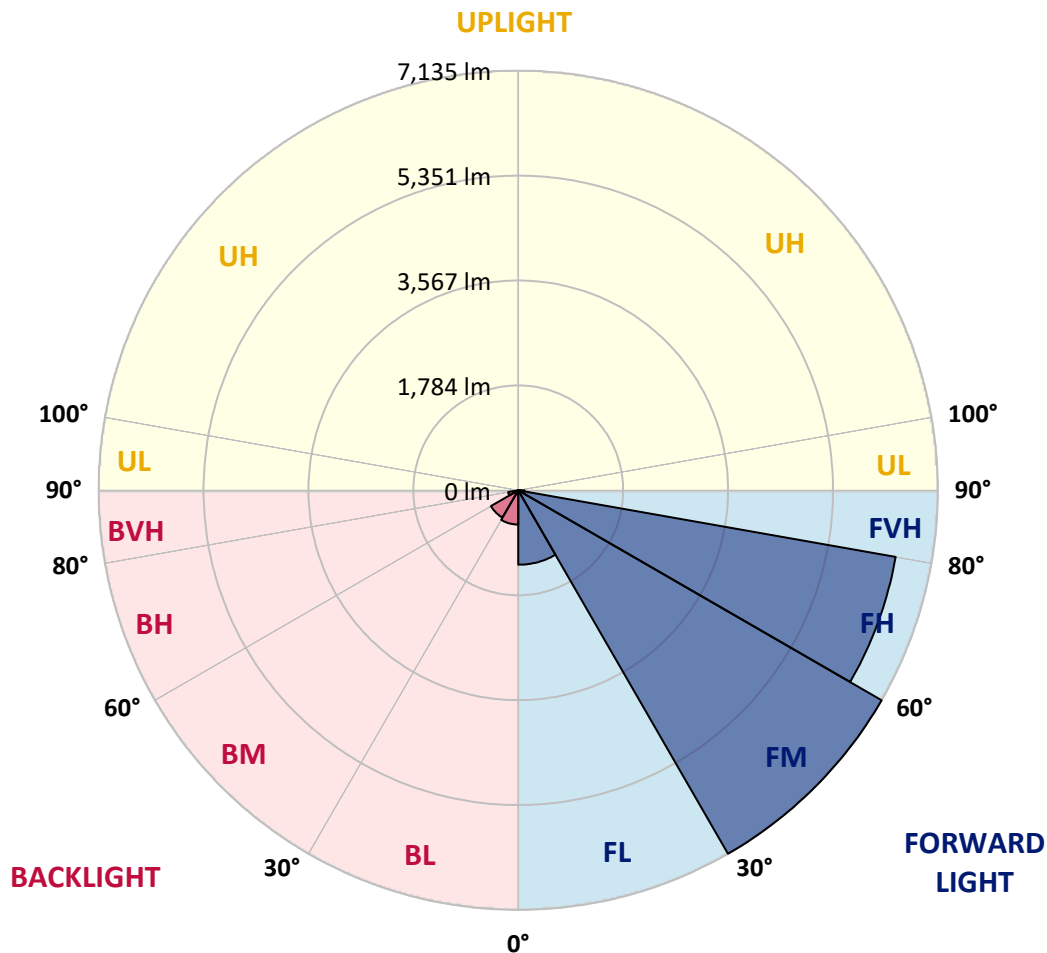


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1265.7	7.8			
FM (30°-60°)	7134.8	43.7			
FH (60°-80°)	6516.0	39.9			G3/7500
FVH (80°-90°)	105.0	0.6			G2/225
BL (0°-30°)	581.3	3.6	B2/1000		
BM (30°-60°)	535.5	3.3	B1/1000		
BH (60°-80°)	173.0	1.1	B1/500		G1/500
BVH (80°-90°)	1.7	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-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0
2.5°	3053.7	3057.4	3070.6	3076.4	3090.4	3113.8	3125.5	3126.2	3145.3	3152.6	3158.5
5°	2837.6	2859.6	2881.6	2905.0	2947.5	3003.9	3059.6	3064.7	3126.2	3171.7	3195.8
7.5°	2651.6	2671.4	2697.7	2735.1	2795.2	2883.8	2976.8	2987.8	3104.3	3207.5	3261.8
10°	2460.4	2476.5	2514.6	2569.6	2652.3	2771.0	2896.2	2914.6	3084.5	3255.9	3351.1
12.5°	2256.1	2265.6	2311.7	2390.8	2512.4	2663.3	2828.1	2852.3	3072.0	3311.6	3456.6
15°	2100.8	2105.2	2149.1	2231.1	2370.3	2566.6	2775.4	2804.7	3075.0	3378.2	3571.6
17.5°	2061.2	2063.4	2086.8	2143.2	2266.3	2480.2	2733.6	2769.5	3083.8	3443.4	3687.3
20°	2221.6	2206.2	2182.1	2173.3	2226.0	2428.2	2708.7	2749.0	3095.5	3501.3	3791.3
22.5°	2661.8	2616.4	2516.1	2382.0	2300.7	2431.8	2715.3	2755.6	3132.8	3572.3	3911.5
25°	3315.2	3252.2	3081.6	2817.9	2564.4	2537.3	2770.3	2811.3	3205.4	3657.3	4026.5
27.5°	4058.7	3996.4	3787.7	3411.2	2979.0	2746.1	2896.2	2934.3	3313.0	3732.7	4114.4
30°	4770.7	4753.1	4507.0	4079.2	3500.5	3084.5	3058.9	3091.1	3392.9	3778.2	4184.0
32.5°	5374.2	5346.4	5148.6	4732.6	4097.5	3491.0	3250.0	3259.6	3452.9	3836.8	4274.8
35°	5933.9	5899.4	5725.8	5332.5	4709.9	3987.6	3544.5	3530.6	3584.0	3954.7	4406.6
37.5°	6422.4	6453.9	6261.3	5887.0	5259.2	4504.0	3941.5	3899.7	3789.1	4146.6	4597.8
40°	6831.1	6831.1	6730.8	6418.8	5852.6	5038.0	4390.5	4335.6	4097.5	4442.5	4840.3
42.5°	6978.4	7009.9	7047.2	6870.7	6383.6	5593.3	4890.8	4833.7	4531.9	4862.2	5146.4
45°	6987.2	7037.0	7228.2	7227.4	6863.4	6144.8	5454.8	5427.7	5088.6	5401.3	5525.9
47.5°	6863.4	6925.6	7240.6	7419.3	7243.5	6658.3	6071.6	6037.9	5742.7	6062.0	5922.9
50°	6672.2	6741.1	7107.3	7494.8	7502.1	7105.1	6721.3	6670.7	6462.7	6817.2	6333.1
52.5°	6330.1	6463.4	6987.9	7512.4	7672.0	7491.1	7339.5	7317.5	7268.4	7544.6	6659.7
55°	5598.4	5746.3	6688.3	7518.2	7829.5	7833.2	7918.9	7924.7	8023.6	8224.3	6902.9
57.5°	5252.6	5336.1	6165.3	7546.1	8063.2	8221.4	8509.3	8554.7	8707.8	8869.7	7180.5
60°	5035.1	5134.0	5907.5	7508.0	8430.2	8730.5	9056.4	9071.8	9235.9	9535.5	7556.3
62.5°	4861.5	4958.9	5744.9	7361.5	8842.6	9342.8	9591.2	9592.6	9715.7	10328.8	7983.3
65°	4433.0	4515.0	5416.0	7196.7	9115.0	9948.6	10212.3	10202.8	10303.1	11165.3	8479.2
67.5°	3813.3	3876.3	4744.3	6571.9	9012.5	10499.4	11149.9	11118.4	10996.8	11888.2	8674.1
70°	2948.2	2971.0	3739.3	5476.8	8051.5	10711.1	12056.0	12039.8	11422.4	11758.6	7959.9
71°	2437.0	2511.7	3295.4	4833.7	7407.6	10515.5	12143.9	12153.4	11315.4	11405.5	7468.4
72.5°	1415.2	1478.9	2388.6	3712.2	6289.1	9699.6	11688.3	11757.1	10815.9	10374.2	6379.2
75°	303.2	324.5	885.6	1796.8	3459.5	6798.2	9225.6	9471.0	8815.4	7057.5	3844.8
77.5°	211.0	227.8	379.4	815.3	1143.4	3359.2	5731.0	6007.8	5266.6	2652.3	1230.6
80°	167.0	186.1	295.9	402.9	309.1	1083.3	2684.6	2853.8	1756.5	591.8	207.3
82.5°	93.0	110.6	230.7	217.5	118.7	205.8	751.5	849.7	351.6	119.4	49.1
85°	27.1	33.0	148.7	158.2	50.5	39.6	128.2	158.9	66.7	31.5	22.0
87.5°	0.0	0.0	71.8	60.8	14.6	5.9	11.7	13.2	13.2	13.2	14.6
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°	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0
2.5°	3158.5	3163.6	3145.3	3121.1	3095.5	3064.0	3031.0	3005.4	3004.7	2992.2	2979.7
5°	3197.3	3194.4	3143.8	3066.9	2976.1	2881.6	2791.5	2689.7	2656.0	2614.2	2600.3
7.5°	3269.1	3248.6	3141.6	2973.2	2773.9	2576.1	2371.8	2166.0	2078.1	1998.9	1985.0
10°	3359.2	3320.4	3127.7	2832.5	2467.0	2102.2	1793.9	1514.0	1391.0	1296.5	1292.1
12.5°	3452.9	3393.6	3088.9	2620.1	2064.9	1552.1	1196.9	921.5	818.9	753.0	758.9
15°	3551.1	3462.5	3005.4	2333.7	1607.1	1053.3	735.4	573.5	532.5	515.7	520.1
17.5°	3651.4	3510.1	2888.9	1988.7	1155.1	679.7	509.1	463.7	463.7	467.3	468.8
20°	3738.6	3535.7	2717.5	1601.9	783.0	495.2	445.4	438.8	442.4	448.3	449.0
22.5°	3825.0	3537.2	2494.1	1210.1	547.9	433.6	424.1	421.2	423.4	430.0	430.7
25°	3895.4	3519.6	2214.3	860.7	437.3	408.7	404.3	402.9	404.3	412.4	412.4
27.5°	3923.9	3455.9	1873.0	605.0	391.9	380.9	379.4	380.9	383.1	388.9	389.7
30°	3926.8	3344.5	1500.9	438.0	355.3	343.5	346.5	351.6	349.4	347.9	349.4
32.5°	3934.2	3215.6	1138.3	360.4	324.5	306.2	302.5	302.5	293.7	288.6	285.7
35°	3958.3	3064.0	825.5	323.8	293.0	271.8	257.8	241.7	224.9	216.1	213.9
37.5°	3996.4	2905.0	591.1	299.6	265.2	241.0	214.6	186.1	161.9	155.3	155.3
40°	4066.0	2741.0	437.3	280.5	243.2	213.2	173.6	136.2	114.3	110.6	110.6
42.5°	4175.9	2568.1	348.7	263.7	224.1	184.6	132.6	98.9	82.8	80.6	79.8
45°	4290.2	2377.6	304.7	247.6	203.6	151.6	98.2	73.2	63.7	61.5	61.5
47.5°	4404.4	2174.7	283.5	232.2	183.9	117.9	73.2	57.9	53.5	53.5	54.2
50°	4501.1	1963.1	268.1	215.4	158.2	89.4	57.9	49.1	47.6	50.5	51.3
52.5°	4525.3	1755.0	249.0	194.1	126.7	68.1	47.6	43.2	43.2	43.2	43.2
55°	4510.6	1593.9	224.1	167.7	93.8	54.2	41.0	38.1	37.4	37.4	37.4
57.5°	4560.4	1498.7	179.5	130.4	67.4	43.9	35.9	33.7	32.2	31.5	31.5
60°	4660.8	1436.4	128.2	93.8	50.5	36.6	30.8	28.6	26.4	24.9	24.9
62.5°	4794.1	1382.2	95.2	69.6	38.8	29.3	25.6	23.4	20.5	19.0	19.0
65°	4896.7	1285.5	72.5	52.0	29.3	23.4	19.8	19.0	14.6	13.2	12.5
67.5°	4739.9	1073.1	58.6	38.1	22.0	18.3	15.4	14.6	8.8	7.3	7.3
70°	4065.3	747.1	46.9	27.8	16.1	14.6	12.5	9.5	6.6	5.9	5.9
71°	3686.6	624.1	42.5	23.4	13.9	13.9	11.7	8.1	5.9	5.1	5.1
72.5°	3062.5	443.2	35.9	18.3	12.5	14.6	12.5	7.3	5.9	5.1	4.4
75°	1777.7	185.3	24.9	12.5	9.5	17.6	16.1	6.6	4.4	3.7	3.7
77.5°	534.7	68.1	13.9	8.1	7.3	15.4	18.3	5.9	2.2	0.7	0.7
80°	97.4	29.3	8.8	5.1	5.1	9.5	13.9	2.9	0.0	0.0	0.0
82.5°	34.4	14.6	5.1	2.9	2.2	4.4	6.6	0.0	0.0	0.0	0.0
85°	19.8	10.3	2.9	1.5	0.0	0.7	1.5	0.0	0.0	0.0	0.0
87.5°	13.2	2.9	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)