

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: P321657

Luminaire Tested: **GAN-SA3D-750-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321657
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-SA3D-750-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1200mA 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: 18218 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

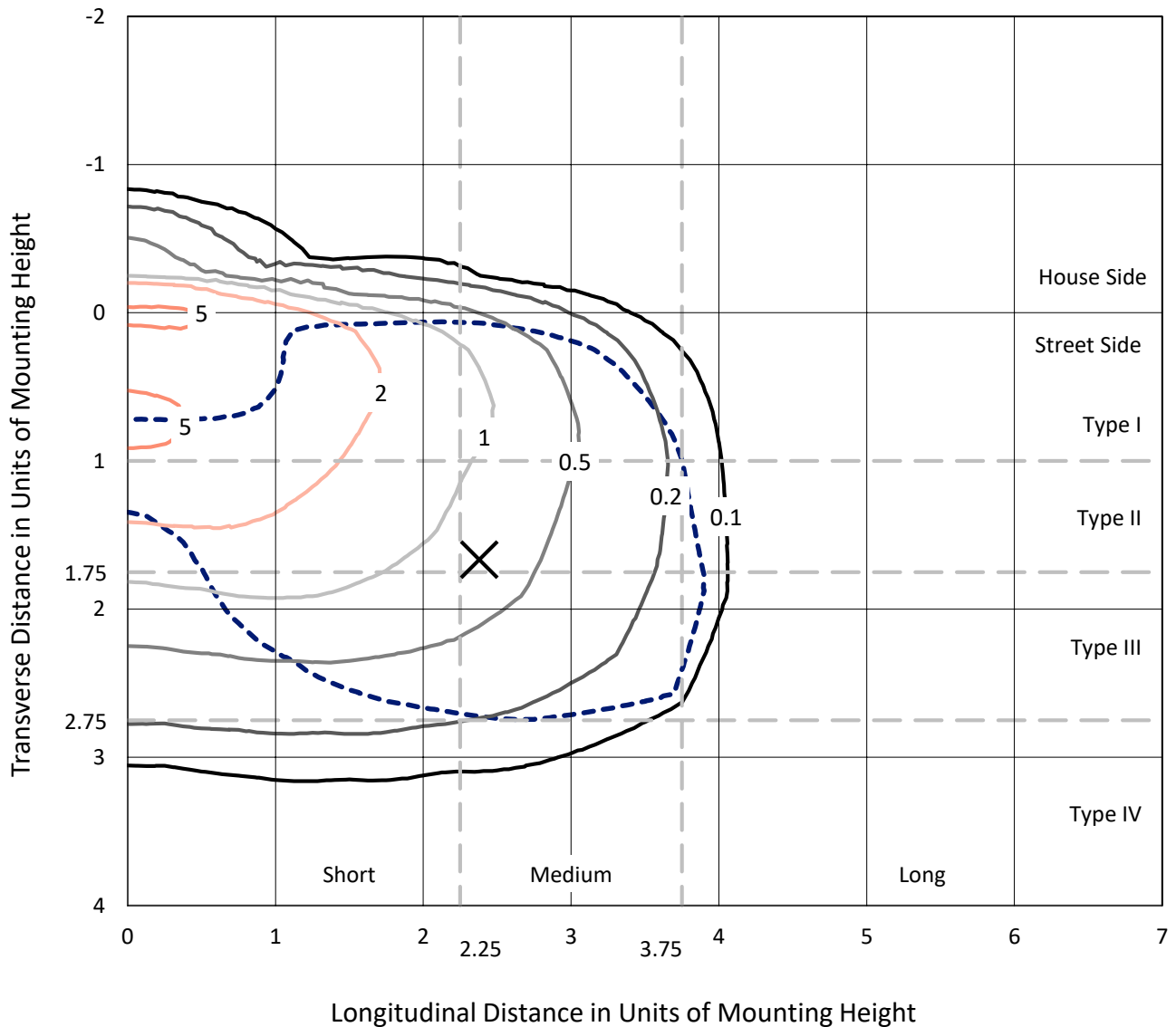
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

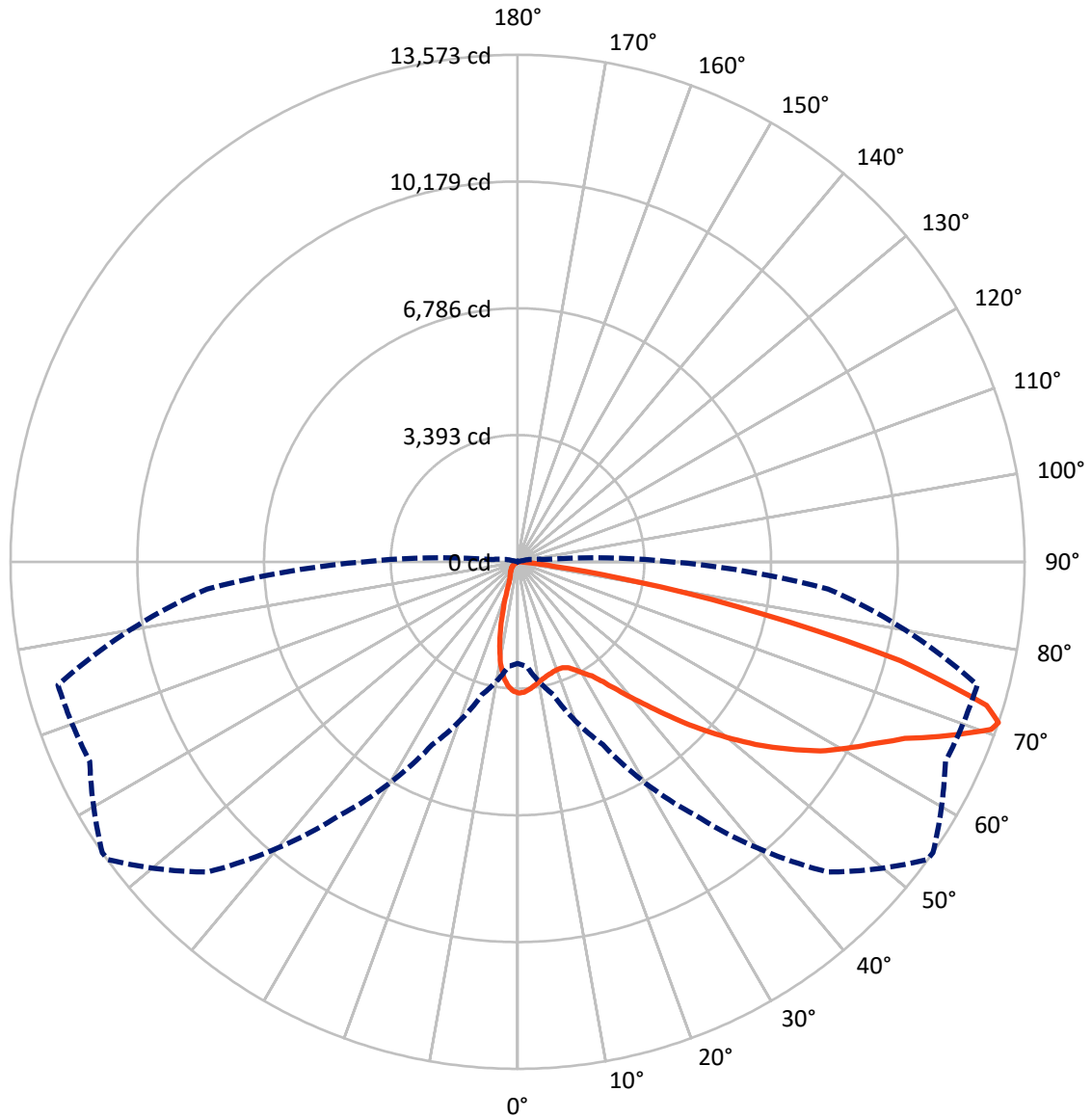
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	1442.4	0.0	1442.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	16775.6	0.0	16775.6
	% Fixture	92.1	0.0	92.1
Total	Lumens	18218.0	0.0	18218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.6	1.6
10°-20°	676.3	3.7
20°-30°	1086.8	6.0
30°-40°	1846.6	10.1
40°-50°	2866.1	15.7
50°-60°	3853.4	21.2
60°-70°	4714.0	25.9
70°-80°	2756.2	15.1
80°-90°	119.1	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°	18218.0	100.0
0°-180°	18218.0	100.0

Coefficient of Utilization



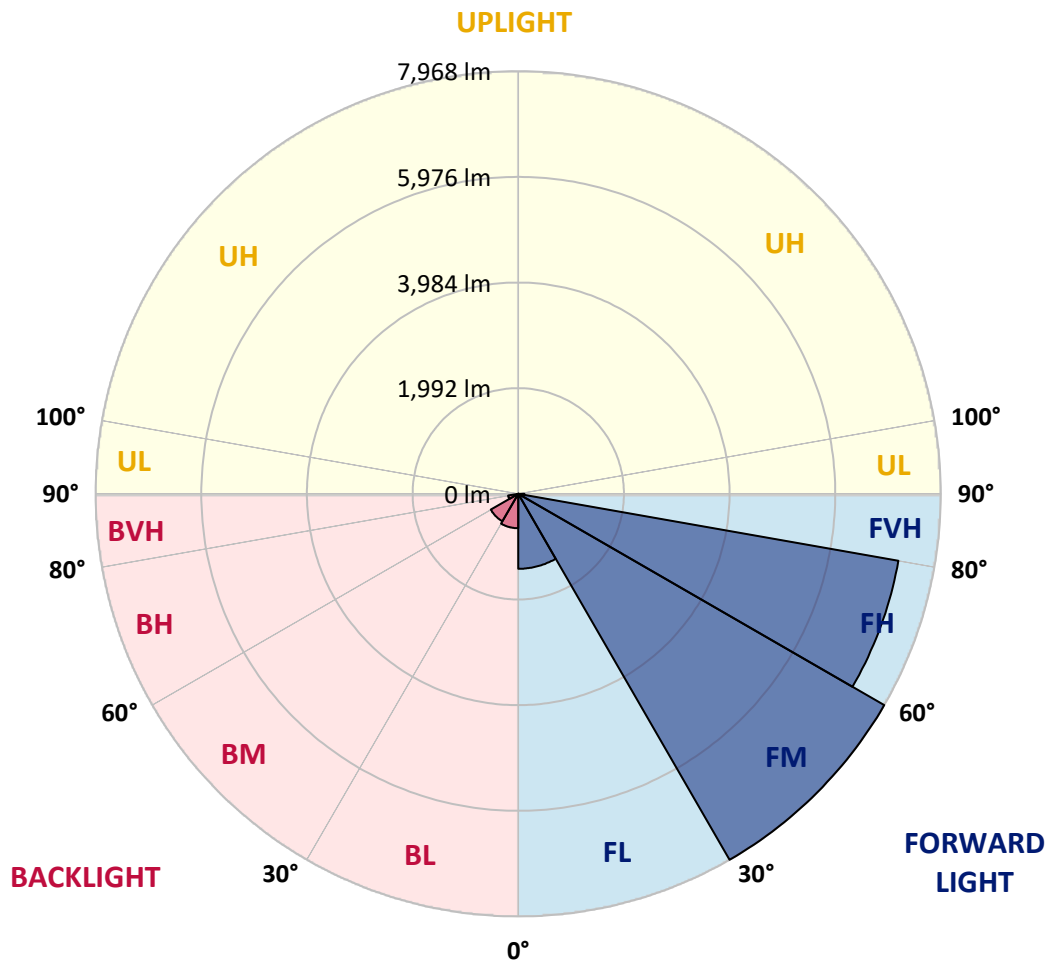
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.5	7.8			
FM (30°-60°)	7968.0	43.7			
FH (60°-80°)	7276.9	39.9			G3/7500
FVH (80°-90°)	117.3	0.6			G2/225
BL (0°-30°)	649.2	3.6	B2/1000		
BM (30°-60°)	598.0	3.3	B1/1000		
BH (60°-80°)	193.2	1.1	B1/500		G1/500
BVH (80°-90°)	1.9	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°	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4
2.5°	3410.3	3414.4	3429.2	3435.7	3451.2	3477.4	3490.5	3491.3	3512.6	3520.8	3527.3
5°	3169.0	3193.6	3218.1	3244.3	3291.7	3354.7	3416.9	3422.6	3491.3	3542.0	3569.0
7.5°	2961.2	2983.3	3012.8	3054.5	3121.6	3220.6	3324.4	3336.7	3466.8	3582.1	3642.7
10°	2747.7	2765.7	2808.3	2869.6	2962.1	3094.6	3234.5	3254.9	3444.7	3636.1	3742.5
12.5°	2519.5	2530.1	2581.7	2670.0	2805.8	2974.3	3158.4	3185.4	3430.8	3698.3	3860.2
15°	2346.1	2351.0	2400.1	2491.7	2647.1	2866.4	3099.5	3132.2	3434.1	3772.7	3988.7
17.5°	2301.9	2304.4	2330.5	2393.5	2531.0	2769.8	3052.9	3092.9	3443.9	3845.5	4117.9
20°	2481.1	2463.9	2436.9	2427.1	2486.0	2711.7	3025.0	3070.0	3457.0	3910.1	4234.1
22.5°	2972.7	2922.0	2809.9	2660.2	2569.4	2715.8	3032.4	3077.4	3498.7	3989.5	4368.2
25°	3702.4	3632.0	3441.4	3146.9	2863.9	2833.6	3093.8	3139.6	3579.7	4084.4	4496.7
27.5°	4532.7	4463.1	4230.0	3809.5	3326.9	3066.8	3234.5	3277.0	3699.9	4168.6	4594.8
30°	5327.8	5308.1	5033.3	4555.6	3909.3	3444.7	3416.1	3452.1	3789.1	4219.4	4672.5
32.5°	6001.8	5970.7	5749.9	5285.2	4576.0	3898.7	3629.6	3640.2	3856.2	4284.8	4774.0
35°	6626.8	6588.4	6394.5	5955.2	5259.9	4453.3	3958.4	3942.9	4002.6	4416.5	4921.2
37.5°	7172.4	7207.6	6992.5	6574.4	5873.4	5030.0	4401.8	4355.2	4231.6	4630.8	5134.7
40°	7628.9	7628.9	7516.8	7168.3	6536.0	5626.4	4903.2	4841.9	4576.0	4961.3	5405.5
42.5°	7793.3	7828.5	7870.2	7673.1	7129.1	6246.4	5461.9	5398.1	5061.1	5430.0	5747.4
45°	7803.1	7858.7	8072.2	8071.4	7664.9	6862.4	6091.8	6061.5	5682.8	6032.1	6171.2
47.5°	7664.9	7734.4	8086.2	8285.7	8089.4	7435.8	6780.6	6743.0	6413.3	6770.0	6614.5
50°	7451.4	7528.3	7937.3	8370.0	8378.2	7934.8	7506.2	7449.7	7217.4	7613.3	7072.6
52.5°	7069.4	7218.2	7803.9	8389.6	8568.0	8365.9	8196.6	8172.0	8117.2	8425.6	7437.5
55°	6252.1	6417.4	7469.4	8396.2	8743.8	8747.9	8843.6	8850.2	8960.6	9184.8	7709.0
57.5°	5866.0	5959.3	6885.3	8427.3	9004.8	9181.5	9503.0	9553.7	9724.7	9905.4	8019.1
60°	5623.1	5733.5	6597.4	8384.7	9414.6	9750.0	10114.0	10131.2	10314.4	10649.0	8438.7
62.5°	5429.2	5538.0	6415.8	8221.1	9875.2	10433.9	10711.2	10712.8	10850.3	11534.9	8915.6
65°	4950.7	5042.3	6048.5	8037.1	10179.5	11110.4	11404.9	11394.2	11506.3	12469.1	9469.4
67.5°	4258.6	4329.0	5298.3	7339.3	10064.9	11725.5	12451.9	12416.8	12281.0	13276.5	9687.0
70°	3292.5	3317.9	4176.0	6116.4	8991.7	11961.9	13463.8	13445.8	12756.2	13131.7	8889.5
71°	2721.6	2805.0	3680.3	5398.1	8272.7	11743.5	13562.0	13572.6	12636.8	12737.4	8340.6
72.5°	1580.4	1651.6	2667.6	4145.7	7023.5	10832.3	13053.2	13130.1	12078.9	11585.7	7124.2
75°	338.7	362.4	989.0	2006.6	3863.5	7592.1	10303.0	10577.0	9844.9	7881.6	4293.8
77.5°	235.6	254.4	423.7	910.5	1276.9	3751.5	6400.2	6709.4	5881.6	2962.1	1374.3
80°	186.5	207.8	330.5	449.9	345.2	1209.9	2998.1	3187.0	1961.6	661.0	231.5
82.5°	103.9	123.5	257.7	243.0	132.5	229.9	839.3	948.9	392.7	133.3	54.8
85°	30.3	36.8	166.1	176.7	56.4	44.2	143.2	177.5	74.4	35.2	24.5
87.5°	0.0	0.0	80.2	67.9	16.4	6.5	13.1	14.7	14.7	14.7	16.4
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°	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4	3513.4
2.5°	3527.3	3533.0	3512.6	3485.6	3457.0	3421.8	3385.0	3356.3	3355.5	3341.6	3327.7
5°	3570.7	3567.4	3511.0	3425.1	3323.6	3218.1	3117.5	3003.8	2966.1	2919.5	2904.0
7.5°	3650.8	3627.9	3508.5	3320.4	3097.9	2877.0	2648.8	2418.9	2320.7	2232.4	2216.8
10°	3751.5	3708.1	3493.0	3163.3	2755.1	2347.7	2003.3	1690.9	1553.4	1447.9	1443.0
12.5°	3856.2	3789.9	3449.6	2926.1	2306.0	1733.4	1336.6	1029.1	914.5	840.9	847.5
15°	3965.8	3866.8	3356.3	2606.2	1794.7	1176.3	821.3	640.5	594.7	575.9	580.8
17.5°	4077.8	3920.0	3226.3	2220.9	1290.0	759.1	568.5	517.8	517.8	521.9	523.5
20°	4175.2	3948.6	3034.9	1789.0	874.5	553.0	497.4	490.0	494.1	500.6	501.4
22.5°	4271.7	3950.2	2785.4	1351.4	611.9	484.3	473.6	470.4	472.8	480.2	481.0
25°	4350.2	3930.6	2472.9	961.2	488.4	456.5	451.5	449.9	451.5	460.5	460.5
27.5°	4382.1	3859.4	2091.7	675.7	437.6	425.4	423.7	425.4	427.8	434.4	435.2
30°	4385.4	3735.1	1676.1	489.2	396.7	383.7	386.9	392.7	390.2	388.6	390.2
32.5°	4393.6	3591.1	1271.2	402.5	362.4	341.9	337.8	337.8	328.0	322.3	319.0
35°	4420.6	3421.8	921.9	361.6	327.2	303.5	287.9	269.9	251.1	241.3	238.9
37.5°	4463.1	3244.3	660.1	334.6	296.1	269.1	239.7	207.8	180.8	173.4	173.4
40°	4540.8	3061.0	488.4	313.3	271.6	238.0	193.9	152.2	127.6	123.5	123.5
42.5°	4663.5	2868.0	389.4	294.5	250.3	206.1	148.1	110.4	92.4	90.0	89.2
45°	4791.2	2655.3	340.3	276.5	227.4	169.3	109.6	81.8	71.2	68.7	68.7
47.5°	4918.8	2428.7	316.6	259.3	205.3	131.7	81.8	64.6	59.7	59.7	60.5
50°	5026.7	2192.3	299.4	240.5	176.7	99.8	64.6	54.8	53.2	56.4	57.3
52.5°	5053.7	1960.0	278.1	216.8	141.5	76.1	53.2	48.3	48.3	48.3	48.3
55°	5037.4	1780.0	250.3	187.3	104.7	60.5	45.8	42.5	41.7	41.7	41.7
57.5°	5093.0	1673.7	200.4	145.6	75.3	49.1	40.1	37.6	36.0	35.2	35.2
60°	5205.1	1604.1	143.2	104.7	56.4	40.9	34.4	31.9	29.4	27.8	27.8
62.5°	5354.0	1543.6	106.3	77.7	43.4	32.7	28.6	26.2	22.9	21.3	21.3
65°	5468.5	1435.6	81.0	58.1	32.7	26.2	22.1	21.3	16.4	14.7	13.9
67.5°	5293.4	1198.4	65.4	42.5	24.5	20.5	17.2	16.4	9.8	8.2	8.2
70°	4540.0	834.4	52.4	31.1	18.0	16.4	13.9	10.6	7.4	6.5	6.5
71°	4117.1	697.0	47.4	26.2	15.5	15.5	13.1	9.0	6.5	5.7	5.7
72.5°	3420.2	494.9	40.1	20.5	13.9	16.4	13.9	8.2	6.5	5.7	4.9
75°	1985.3	207.0	27.8	13.9	10.6	19.6	18.0	7.4	4.9	4.1	4.1
77.5°	597.2	76.1	15.5	9.0	8.2	17.2	20.5	6.5	2.5	0.8	0.8
80°	108.8	32.7	9.8	5.7	5.7	10.6	15.5	3.3	0.0	0.0	0.0
82.5°	38.4	16.4	5.7	3.3	2.5	4.9	7.4	0.0	0.0	0.0	0.0
85°	22.1	11.5	3.3	1.6	0.0	0.8	1.6	0.0	0.0	0.0	0.0
87.5°	14.7	3.3	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)