

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: P321659

Luminaire Tested: **GAN-SA5D-750-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321659  
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-SA5D-750-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 29825 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

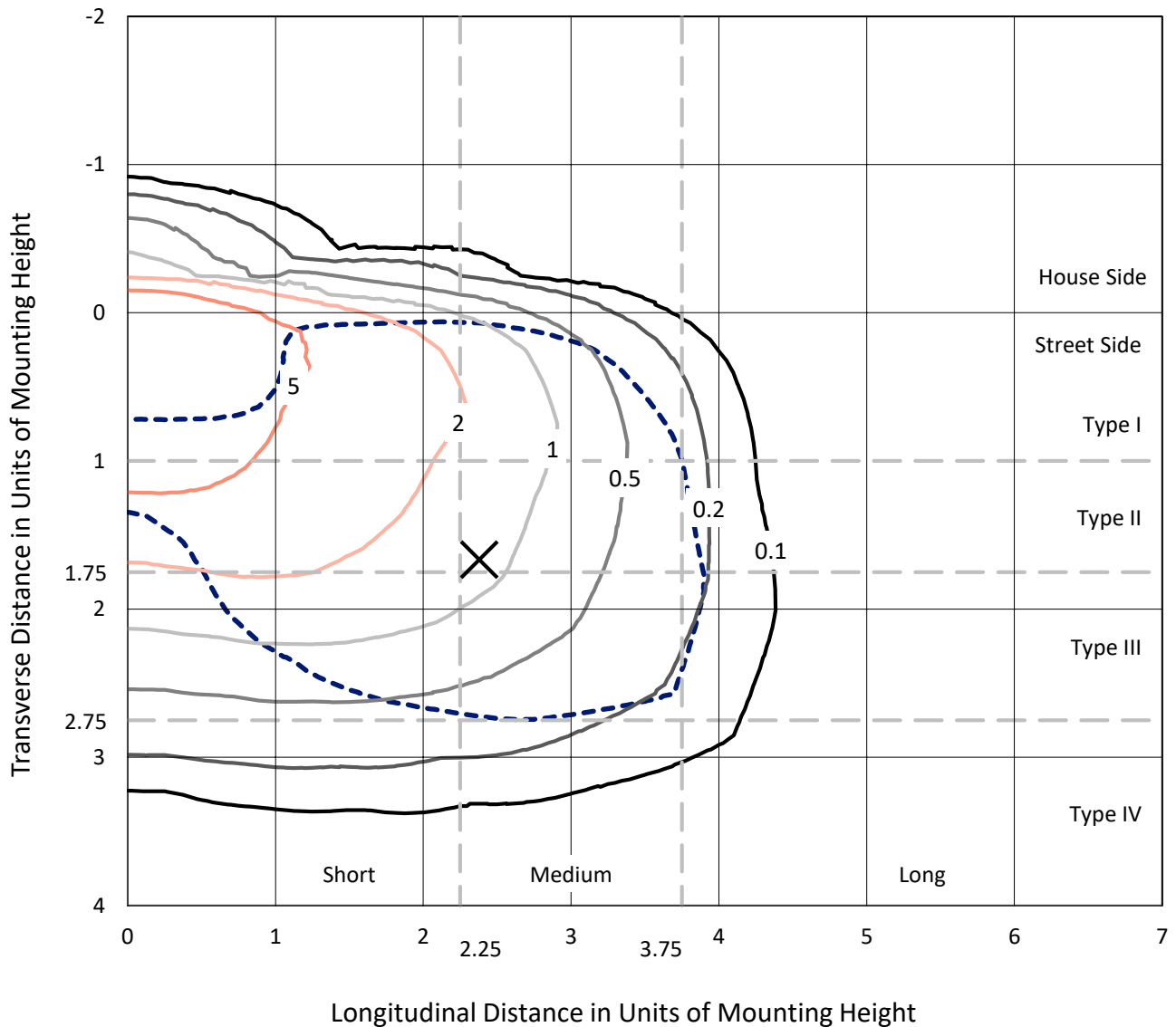
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

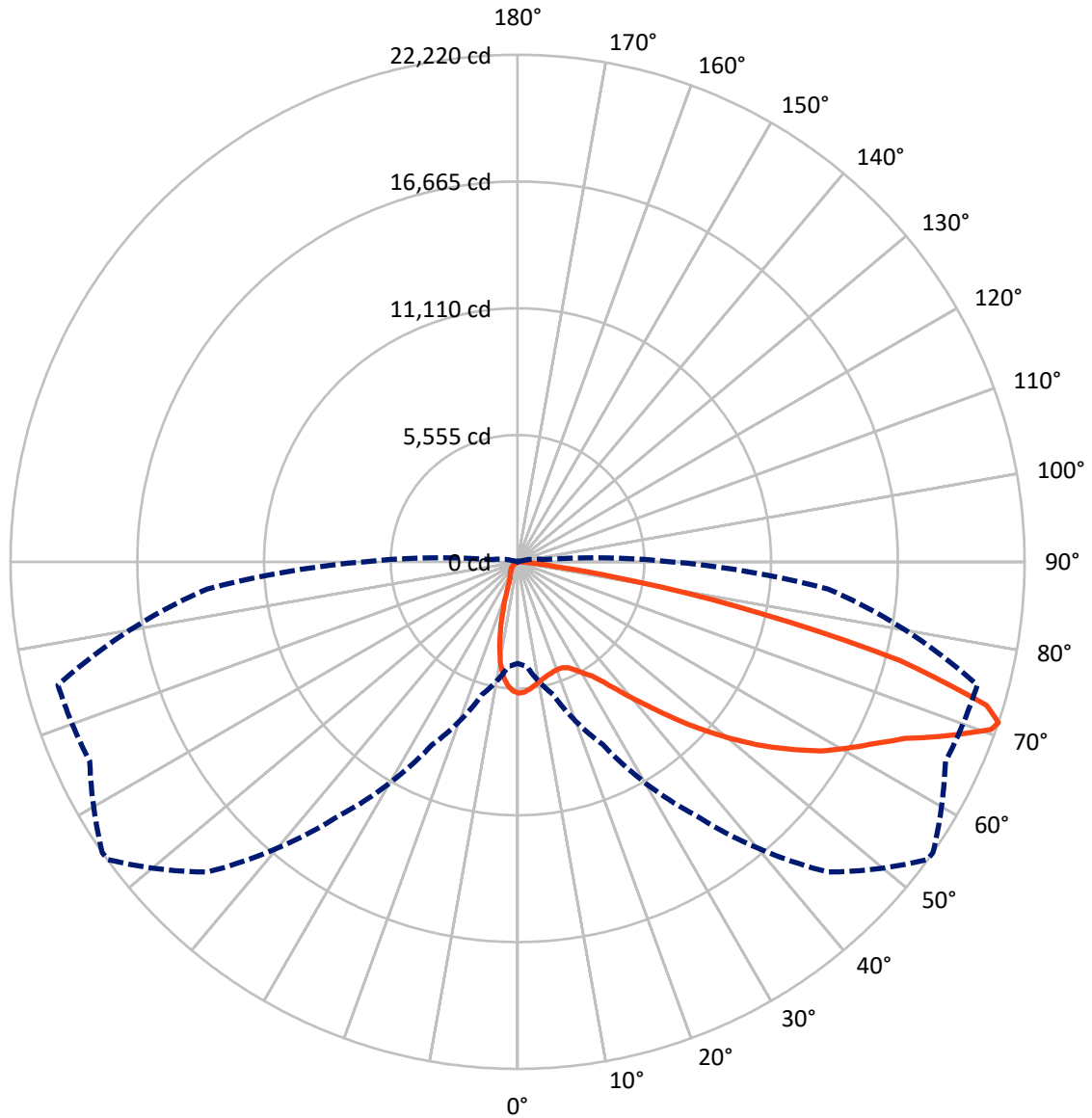
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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
<b>House Side</b>	Lumens	2361.3	0.0	2361.3
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	27463.7	0.0	27463.7
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	29825.0	0.0	29825.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	490.4	1.6
10°-20°	1107.2	3.7
20°-30°	1779.3	6.0
30°-40°	3023.0	10.1
40°-50°	4692.1	15.7
50°-60°	6308.5	21.2
60°-70°	7717.3	25.9
70°-80°	4512.1	15.1
80°-90°	195.0	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°	29825.0	100.0
0°-180°	29825.0	100.0

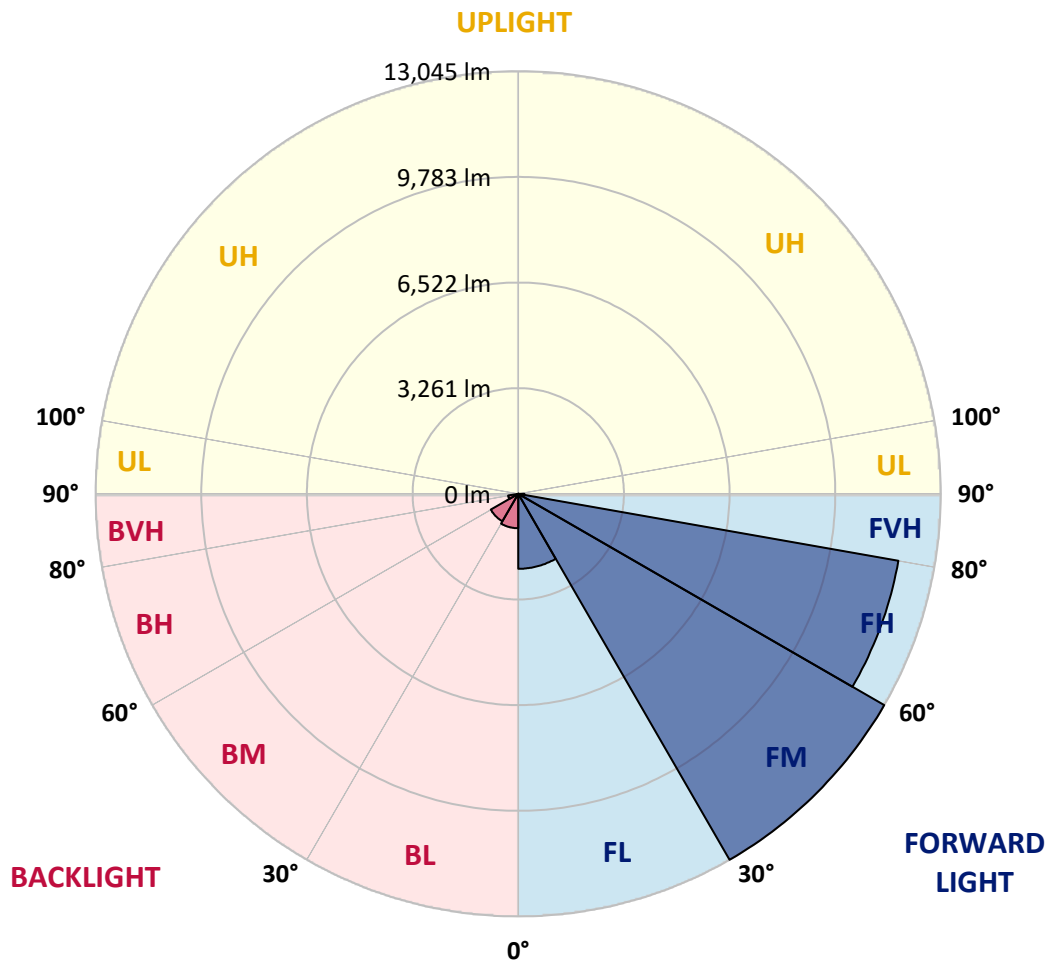


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2314.0	7.8			
FM (30°-60°)	13044.6	43.7			
FH (60°-80°)	11913.1	39.9			G4/12000
FVH (80°-90°)	192.0	0.6			G2/225
BL (0°-30°)	1062.8	3.6	B3/2500		
BM (30°-60°)	979.0	3.3	B1/1000		
BH (60°-80°)	316.4	1.1	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9
2.5°	5583.1	5589.8	5613.9	5624.6	5650.1	5692.9	5714.4	5715.7	5750.5	5763.9	5774.6
5°	5188.1	5228.2	5268.4	5311.3	5388.9	5492.1	5593.8	5603.2	5715.7	5798.7	5842.9
7.5°	4847.9	4884.1	4932.3	5000.6	5110.4	5272.4	5442.5	5462.6	5675.5	5864.4	5963.5
10°	4498.4	4527.8	4597.5	4697.9	4849.2	5066.2	5295.2	5328.7	5639.4	5952.7	6126.8
12.5°	4124.7	4142.1	4226.5	4371.1	4593.5	4869.3	5170.6	5214.8	5616.6	6054.5	6319.7
15°	3840.8	3848.9	3929.2	4079.2	4333.6	4692.6	5074.2	5127.8	5622.0	6176.4	6529.9
17.5°	3768.5	3772.5	3815.4	3918.5	4143.5	4534.5	4997.9	5063.5	5638.0	6295.6	6741.5
20°	4061.8	4033.7	3989.5	3973.4	4069.8	4439.4	4952.4	5026.0	5659.5	6401.4	6931.7
22.5°	4866.6	4783.6	4600.1	4355.1	4206.4	4446.1	4964.4	5038.1	5727.8	6531.3	7151.3
25°	6061.2	5946.0	5634.0	5151.9	4688.5	4639.0	5064.8	5139.8	5860.3	6686.6	7361.6
27.5°	7420.5	7306.7	6925.0	6236.6	5446.5	5020.7	5295.2	5364.8	6057.2	6824.6	7522.3
30°	8722.2	8690.1	8240.1	7458.0	6400.0	5639.4	5592.5	5651.4	6203.2	6907.6	7649.5
32.5°	9825.7	9774.8	9413.2	8652.6	7491.5	6382.6	5942.0	5959.4	6313.0	7014.7	7815.6
35°	10848.8	10785.9	10468.5	9749.4	8611.0	7290.6	6480.4	6454.9	6552.7	7230.3	8056.6
37.5°	11742.1	11799.7	11447.5	10763.1	9615.4	8234.7	7206.2	7129.9	6927.7	7581.2	8406.2
40°	12489.4	12489.4	12305.9	11735.4	10700.2	9211.0	8027.2	7926.7	7491.5	8122.2	8849.4
42.5°	12758.5	12816.1	12884.4	12561.7	11671.1	10226.1	8941.8	8837.4	8285.6	8889.6	9409.2
45°	12774.6	12865.7	13215.2	13213.9	12548.3	11234.5	9973.0	9923.5	9303.4	9875.3	10102.9
47.5°	12548.3	12662.1	13238.0	13564.7	13243.3	12173.3	11100.6	11039.0	10499.3	11083.2	10828.8
50°	12198.8	12324.6	12994.2	13702.7	13716.1	12990.2	12288.5	12196.1	11815.7	12463.9	11578.7
52.5°	11573.4	11817.1	12776.0	13734.8	14026.8	13696.0	13418.8	13378.6	13288.9	13793.7	12176.0
55°	10235.5	10506.0	12228.2	13745.5	14314.7	14321.4	14478.1	14488.8	14669.6	15036.5	12620.6
57.5°	9603.4	9756.1	11272.0	13796.4	14741.9	15031.2	15557.5	15640.5	15920.4	16216.4	13128.2
60°	9205.7	9386.4	10800.6	13726.8	15412.8	15961.9	16557.9	16586.0	16886.0	17433.7	13815.2
62.5°	8888.3	9066.4	10503.3	13458.9	16166.8	17081.5	17535.5	17538.1	17763.1	18884.0	14595.9
65°	8104.8	8254.8	9902.0	13157.6	16665.0	18189.0	18671.1	18653.7	18837.2	20413.4	15502.6
67.5°	6971.9	7087.0	8674.0	12015.3	16477.5	19196.1	20385.3	20327.7	20105.4	21735.2	15858.8
70°	5390.3	5431.8	6836.6	10013.2	14720.5	19583.1	22041.9	22012.4	20883.5	21498.2	14553.1
71°	4455.5	4592.1	6025.1	8837.4	13543.3	19225.5	22202.6	22220.0	20687.9	20852.7	13654.5
72.5°	2587.3	2703.8	4367.1	6787.1	11498.4	17733.7	21369.6	21495.5	19774.6	18967.1	11663.1
75°	554.4	593.3	1619.1	3285.1	6325.0	12429.1	16867.2	17315.8	16117.3	12903.2	7029.5
77.5°	385.7	416.5	693.7	1490.5	2090.5	6141.6	10477.9	10984.1	9628.8	4849.2	2249.9
80°	305.3	340.2	541.0	736.6	565.1	1980.7	4908.2	5217.5	3211.4	1082.1	379.0
82.5°	170.1	202.2	421.8	397.7	217.0	376.3	1374.0	1553.5	642.8	218.3	89.7
85°	49.6	60.3	271.9	289.3	92.4	72.3	234.4	290.6	121.9	57.6	40.2
87.5°	0.0	0.0	131.2	111.2	26.8	10.7	21.4	24.1	24.1	24.1	26.8
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°	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9
2.5°	5774.6	5784.0	5750.5	5706.3	5659.5	5601.9	5541.6	5494.7	5493.4	5470.6	5447.9
5°	5845.6	5840.2	5747.8	5607.2	5441.2	5268.4	5103.7	4917.5	4855.9	4779.6	4754.2
7.5°	5976.8	5939.3	5743.8	5435.8	5071.5	4710.0	4336.3	3960.0	3799.3	3654.7	3629.2
10°	6141.6	6070.6	5718.4	5178.7	4510.4	3843.5	3279.7	2768.1	2543.1	2370.4	2362.3
12.5°	6313.0	6204.5	5647.4	4790.3	3775.2	2837.8	2188.3	1684.7	1497.2	1376.7	1387.4
15°	6492.4	6330.4	5494.7	4266.7	2938.2	1925.8	1344.6	1048.6	973.6	942.8	950.8
17.5°	6675.9	6417.4	5281.8	3635.9	2111.9	1242.8	930.7	847.7	847.7	854.4	857.1
20°	6835.3	6464.3	4968.4	2928.8	1431.6	905.3	814.2	802.2	808.9	819.6	820.9
22.5°	6993.3	6467.0	4560.0	2212.4	1001.7	792.8	775.4	770.0	774.1	786.1	787.4
25°	7121.9	6434.8	4048.4	1573.6	799.5	747.3	739.2	736.6	739.2	754.0	754.0
27.5°	7174.1	6318.3	3424.3	1106.2	716.5	696.4	693.7	696.4	700.4	711.1	712.5
30°	7179.4	6114.8	2744.0	800.8	649.5	628.1	633.4	642.8	638.8	636.1	638.8
32.5°	7192.8	5879.1	2081.1	658.9	593.3	559.8	553.1	553.1	537.0	527.6	522.3
35°	7237.0	5601.9	1509.3	591.9	535.7	496.8	471.4	441.9	411.1	395.1	391.0
37.5°	7306.7	5311.3	1080.7	547.7	484.8	440.6	392.4	340.2	296.0	283.9	283.9
40°	7433.9	5011.3	799.5	512.9	444.6	389.7	317.4	249.1	208.9	202.2	202.2
42.5°	7634.8	4695.2	637.5	482.1	409.8	337.5	242.4	180.8	151.3	147.3	146.0
45°	7843.7	4347.0	557.1	452.6	372.3	277.2	179.5	133.9	116.5	112.5	112.5
47.5°	8052.6	3976.1	518.3	424.5	336.1	215.6	133.9	105.8	97.8	97.8	99.1
50°	8229.4	3589.1	490.1	393.7	289.3	163.4	105.8	89.7	87.0	92.4	93.7
52.5°	8273.6	3208.7	455.3	354.9	231.7	124.5	87.0	79.0	79.0	79.0	79.0
55°	8246.8	2914.1	409.8	306.7	171.4	99.1	75.0	69.6	68.3	68.3	68.3
57.5°	8337.9	2740.0	328.1	238.4	123.2	80.4	65.6	61.6	58.9	57.6	57.6
60°	8521.3	2626.2	234.4	171.4	92.4	67.0	56.2	52.2	48.2	45.5	45.5
62.5°	8765.1	2527.1	174.1	127.2	71.0	53.6	46.9	42.9	37.5	34.8	34.8
65°	8952.5	2350.3	132.6	95.1	53.6	42.9	36.2	34.8	26.8	24.1	22.8
67.5°	8666.0	1961.9	107.1	69.6	40.2	33.5	28.1	26.8	16.1	13.4	13.4
70°	7432.6	1366.0	85.7	50.9	29.5	26.8	22.8	17.4	12.1	10.7	10.7
71°	6740.2	1141.0	77.7	42.9	25.4	25.4	21.4	14.7	10.7	9.4	9.4
72.5°	5599.2	810.2	65.6	33.5	22.8	26.8	22.8	13.4	10.7	9.4	8.0
75°	3250.2	338.8	45.5	22.8	17.4	32.1	29.5	12.1	8.0	6.7	6.7
77.5°	977.6	124.5	25.4	14.7	13.4	28.1	33.5	10.7	4.0	1.3	1.3
80°	178.1	53.6	16.1	9.4	9.4	17.4	25.4	5.4	0.0	0.0	0.0
82.5°	62.9	26.8	9.4	5.4	4.0	8.0	12.1	0.0	0.0	0.0	0.0
85°	36.2	18.7	5.4	2.7	0.0	1.3	2.7	0.0	0.0	0.0	0.0
87.5°	24.1	5.4	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)