

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: P321619

Luminaire Tested: **GAN-SA5D-740-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321619  
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-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 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: 29826 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

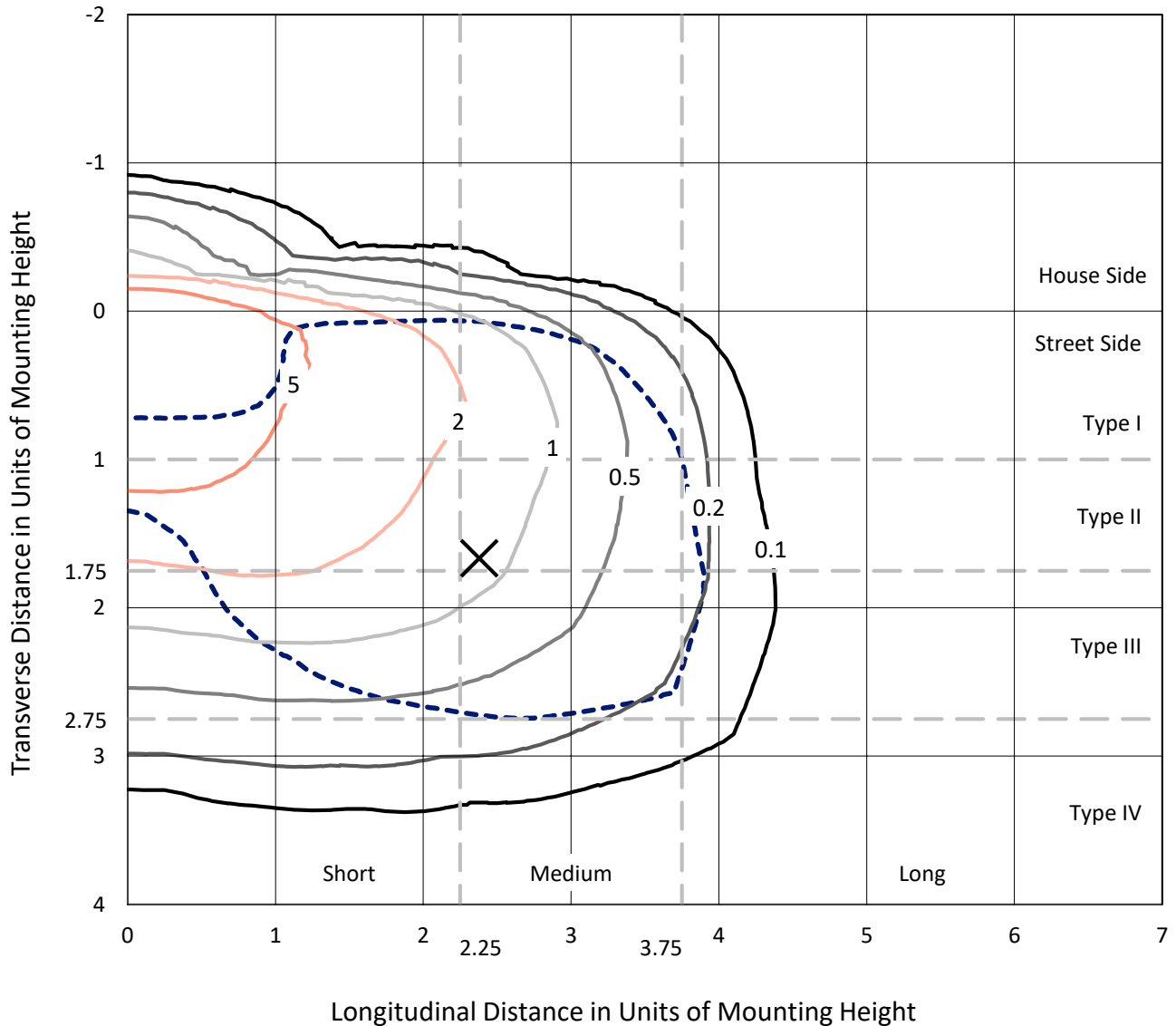
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

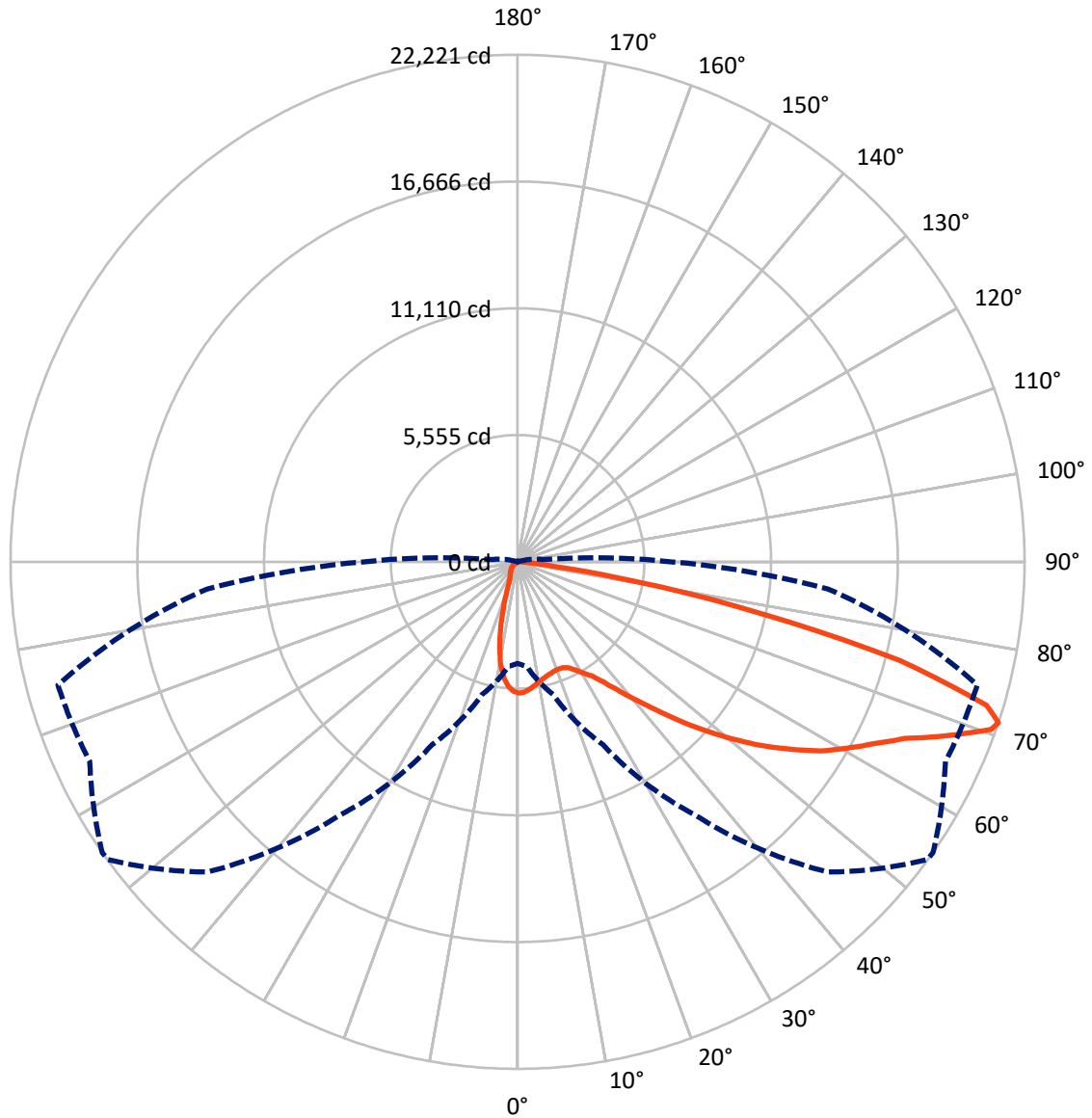
× Max cd  
 - - - 1/2 Max cd



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	2361.4	0.0	2361.4
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	27464.6	0.0	27464.6
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	29826.0	0.0	29826.0
	% Fixture	100.0	0.0	100.0

**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°	3023.1	10.1
40°-50°	4692.3	15.7
50°-60°	6308.7	21.2
60°-70°	7717.6	25.9
70°-80°	4512.3	15.1
80°-90°	195.1	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°	29826.0	100.0
0°-180°	29826.0	100.0

**Coefficient of Utilization**

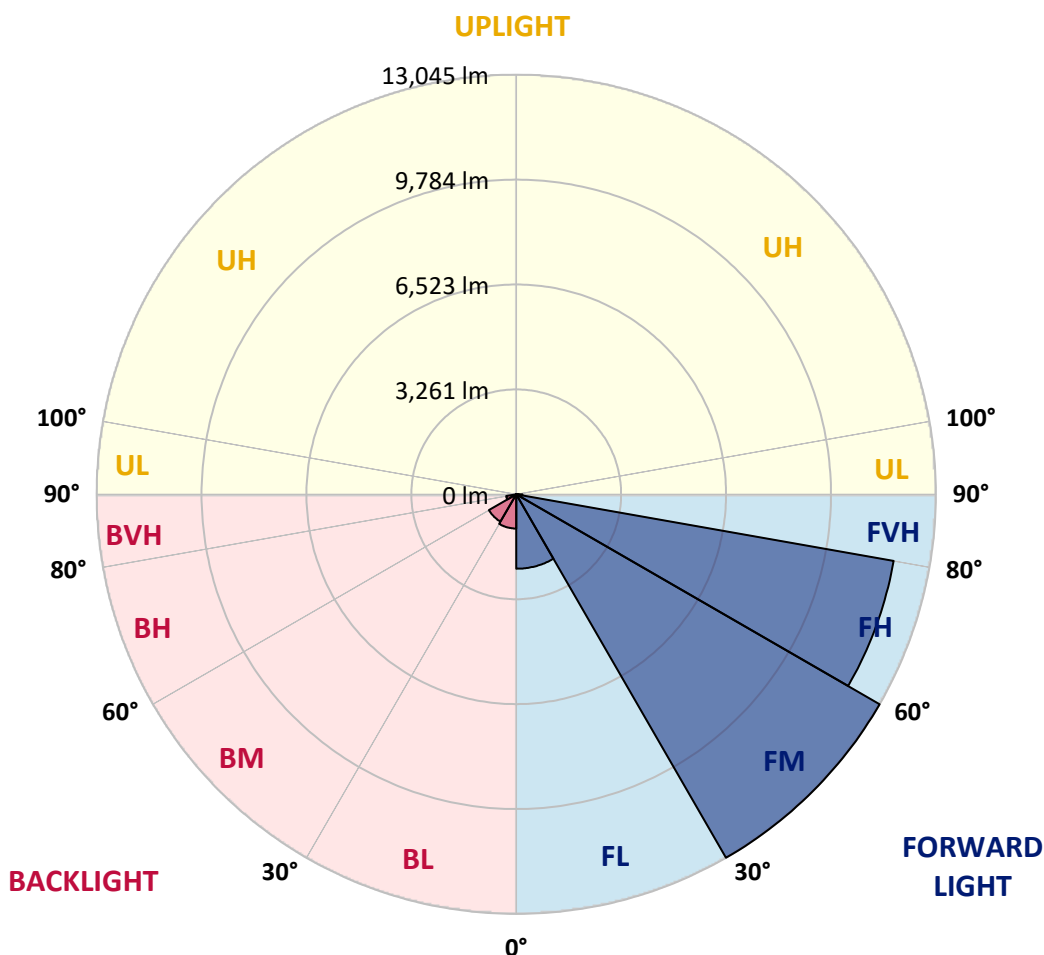


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2314.1	7.8			
FM (30°-60°)	13045.0	43.7			
FH (60°-80°)	11913.5	39.9			G4/12000
FVH (80°-90°)	192.0	0.6			G2/225
BL (0°-30°)	1062.9	3.6	B3/2500		
BM (30°-60°)	979.1	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°	5752.1	5752.1	5752.1	5752.1	5752.1	5752.1	5752.1	5752.1	5752.1	5752.1	5752.1
2.5°	5583.3	5590.0	5614.1	5624.8	5650.3	5693.1	5714.6	5715.9	5750.7	5764.1	5774.8
5°	5188.2	5228.4	5268.6	5311.4	5389.1	5492.2	5594.0	5603.4	5715.9	5798.9	5843.1
7.5°	4848.1	4884.2	4932.4	5000.7	5110.6	5272.6	5442.7	5462.8	5675.7	5864.5	5963.7
10°	4498.5	4528.0	4597.6	4698.1	4849.4	5066.4	5295.4	5328.9	5639.6	5952.9	6127.0
12.5°	4124.9	4142.3	4226.7	4371.3	4593.6	4869.5	5170.8	5215.0	5616.8	6054.7	6319.9
15°	3841.0	3849.0	3929.3	4079.3	4333.8	4692.7	5074.4	5128.0	5622.1	6176.6	6530.2
17.5°	3768.6	3772.6	3815.5	3918.6	4143.6	4534.7	4998.1	5063.7	5638.2	6295.8	6741.8
20°	4061.9	4033.8	3989.6	3973.5	4070.0	4439.6	4952.5	5026.2	5659.6	6401.6	6931.9
22.5°	4866.8	4783.8	4600.3	4355.2	4206.6	4446.3	4964.6	5038.2	5727.9	6531.5	7151.6
25°	6061.4	5946.2	5634.2	5152.1	4688.7	4639.1	5065.0	5140.0	5860.5	6686.8	7361.8
27.5°	7420.7	7306.9	6925.2	6236.9	5446.7	5020.8	5295.4	5365.0	6057.4	6824.8	7522.5
30°	8722.5	8690.4	8240.4	7458.2	6400.2	5639.6	5592.7	5651.6	6203.4	6907.8	7649.8
32.5°	9826.0	9775.1	9413.5	8652.9	7491.7	6382.8	5942.2	5959.6	6313.2	7015.0	7815.8
35°	10849.2	10786.3	10468.9	9749.7	8611.3	7290.8	6480.6	6455.2	6552.9	7230.6	8056.9
37.5°	11742.5	11800.1	11447.9	10763.5	9615.8	8235.0	7206.5	7130.1	6927.9	7581.5	8406.4
40°	12489.8	12489.8	12306.3	11735.8	10700.6	9211.3	8027.4	7927.0	7491.7	8122.5	8849.7
42.5°	12759.0	12816.6	12884.9	12562.1	11671.5	10226.5	8942.1	8837.7	8285.9	8889.9	9409.5
45°	12775.0	12866.1	13215.7	13214.3	12548.7	11234.9	9973.3	9923.8	9303.7	9875.6	10103.3
47.5°	12548.7	12662.5	13238.4	13565.2	13243.8	12173.7	11101.0	11039.4	10499.7	11083.6	10829.1
50°	12199.2	12325.1	12994.7	13703.1	13716.5	12990.7	12288.9	12196.5	11816.1	12464.3	11579.1
52.5°	11573.7	11817.5	12776.4	13735.3	14027.2	13696.4	13419.2	13379.0	13289.3	13794.2	12176.4
55°	10235.8	10506.4	12228.6	13746.0	14315.2	14321.9	14478.6	14489.3	14670.1	15037.0	12621.0
57.5°	9603.7	9756.4	11272.4	13796.9	14742.4	15031.7	15558.0	15641.0	15920.9	16216.9	13128.6
60°	9206.0	9386.8	10801.0	13727.2	15413.4	15962.4	16558.4	16586.5	16886.5	17434.3	13815.6
62.5°	8888.6	9066.7	10503.7	13459.4	16167.3	17082.1	17536.1	17538.7	17763.7	18884.7	14596.4
65°	8105.1	8255.1	9902.4	13158.1	16665.5	18189.6	18671.7	18654.3	18837.8	20414.1	15503.1
67.5°	6972.1	7087.3	8674.3	12015.7	16478.1	19196.7	20386.0	20328.4	20106.1	21735.9	15859.3
70°	5390.5	5432.0	6836.8	10013.5	14721.0	19583.8	22042.6	22013.1	20884.2	21498.9	14553.6
71°	4455.7	4592.3	6025.3	8837.7	13543.8	19226.2	22203.3	22220.7	20688.6	20853.4	13654.9
72.5°	2587.4	2703.9	4367.3	6787.3	11498.7	17734.3	21370.3	21496.2	19775.3	18967.7	11663.5
75°	554.4	593.3	1619.1	3285.2	6325.2	12429.5	16867.8	17316.4	16117.8	12903.6	7029.7
77.5°	385.7	416.5	693.7	1490.6	2090.6	6141.8	10478.2	10984.5	9629.2	4849.4	2249.9
80°	305.3	340.2	541.1	736.6	565.2	1980.7	4908.3	5217.7	3211.5	1082.1	379.0
82.5°	170.1	202.2	421.9	397.8	217.0	376.3	1374.1	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°	5752.1	5752.1	5752.1	5752.1	5752.1	5752.1	5752.1	5752.1	5752.1	5752.1	5752.1
2.5°	5774.8	5784.2	5750.7	5706.5	5659.6	5602.1	5541.8	5494.9	5493.6	5470.8	5448.0
5°	5845.8	5840.4	5748.0	5607.4	5441.3	5268.6	5103.9	4917.7	4856.1	4779.8	4754.3
7.5°	5977.0	5939.5	5744.0	5436.0	5071.7	4710.1	4336.5	3960.1	3799.4	3654.8	3629.4
10°	6141.8	6070.8	5718.6	5178.9	4510.6	3843.6	3279.8	2768.2	2543.2	2370.5	2362.4
12.5°	6313.2	6204.7	5647.6	4790.5	3775.3	2837.9	2188.3	1684.8	1497.3	1376.7	1387.5
15°	6492.7	6330.6	5494.9	4266.8	2938.3	1925.8	1344.6	1048.6	973.6	942.8	950.9
17.5°	6676.1	6417.7	5282.0	3636.0	2112.0	1242.8	930.8	847.7	847.7	854.4	857.1
20°	6835.5	6464.5	4968.6	2928.9	1431.7	905.3	814.3	802.2	808.9	819.6	821.0
22.5°	6993.5	6467.2	4560.1	2212.4	1001.8	792.8	775.4	770.1	774.1	786.1	787.5
25°	7122.1	6435.1	4048.5	1573.6	799.5	747.3	739.3	736.6	739.3	754.0	754.0
27.5°	7174.3	6318.6	3424.4	1106.2	716.5	696.4	693.7	696.4	700.4	711.1	712.5
30°	7179.7	6115.0	2744.1	800.9	649.5	628.1	633.5	642.8	638.8	636.1	638.8
32.5°	7193.1	5879.3	2081.2	658.9	593.3	559.8	553.1	553.1	537.0	527.7	522.3
35°	7237.3	5602.1	1509.3	591.9	535.7	496.9	471.4	442.0	411.1	395.1	391.1
37.5°	7306.9	5311.4	1080.8	547.8	484.8	440.6	392.4	340.2	296.0	283.9	283.9
40°	7434.1	5011.4	799.5	512.9	444.6	389.7	317.4	249.1	208.9	202.2	202.2
42.5°	7635.0	4695.4	637.5	482.1	409.8	337.5	242.4	180.8	151.3	147.3	146.0
45°	7843.9	4347.2	557.1	452.7	372.3	277.2	179.5	133.9	116.5	112.5	112.5
47.5°	8052.9	3976.2	518.3	424.5	336.2	215.6	133.9	105.8	97.8	97.8	99.1
50°	8229.7	3589.2	490.2	393.7	289.3	163.4	105.8	89.7	87.1	92.4	93.7
52.5°	8273.8	3208.8	455.3	354.9	231.7	124.5	87.1	79.0	79.0	79.0	79.0
55°	8247.1	2914.2	409.8	306.7	171.4	99.1	75.0	69.6	68.3	68.3	68.3
57.5°	8338.1	2740.1	328.1	238.4	123.2	80.4	65.6	61.6	58.9	57.6	57.6
60°	8521.6	2626.3	234.4	171.4	92.4	67.0	56.2	52.2	48.2	45.5	45.5
62.5°	8765.3	2527.2	174.1	127.2	71.0	53.6	46.9	42.9	37.5	34.8	34.8
65°	8952.8	2350.4	132.6	95.1	53.6	42.9	36.2	34.8	26.8	24.1	22.8
67.5°	8666.2	1962.0	107.1	69.6	40.2	33.5	28.1	26.8	16.1	13.4	13.4
70°	7432.8	1366.0	85.7	50.9	29.5	26.8	22.8	17.4	12.1	10.7	10.7
71°	6740.4	1141.0	77.7	42.9	25.4	25.4	21.4	14.7	10.7	9.4	9.4
72.5°	5599.4	810.2	65.6	33.5	22.8	26.8	22.8	13.4	10.7	9.4	8.0
75°	3250.3	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)