

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: P321339

Luminaire Tested: **GAN-SA5D-750-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321339  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5D-750-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31302 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

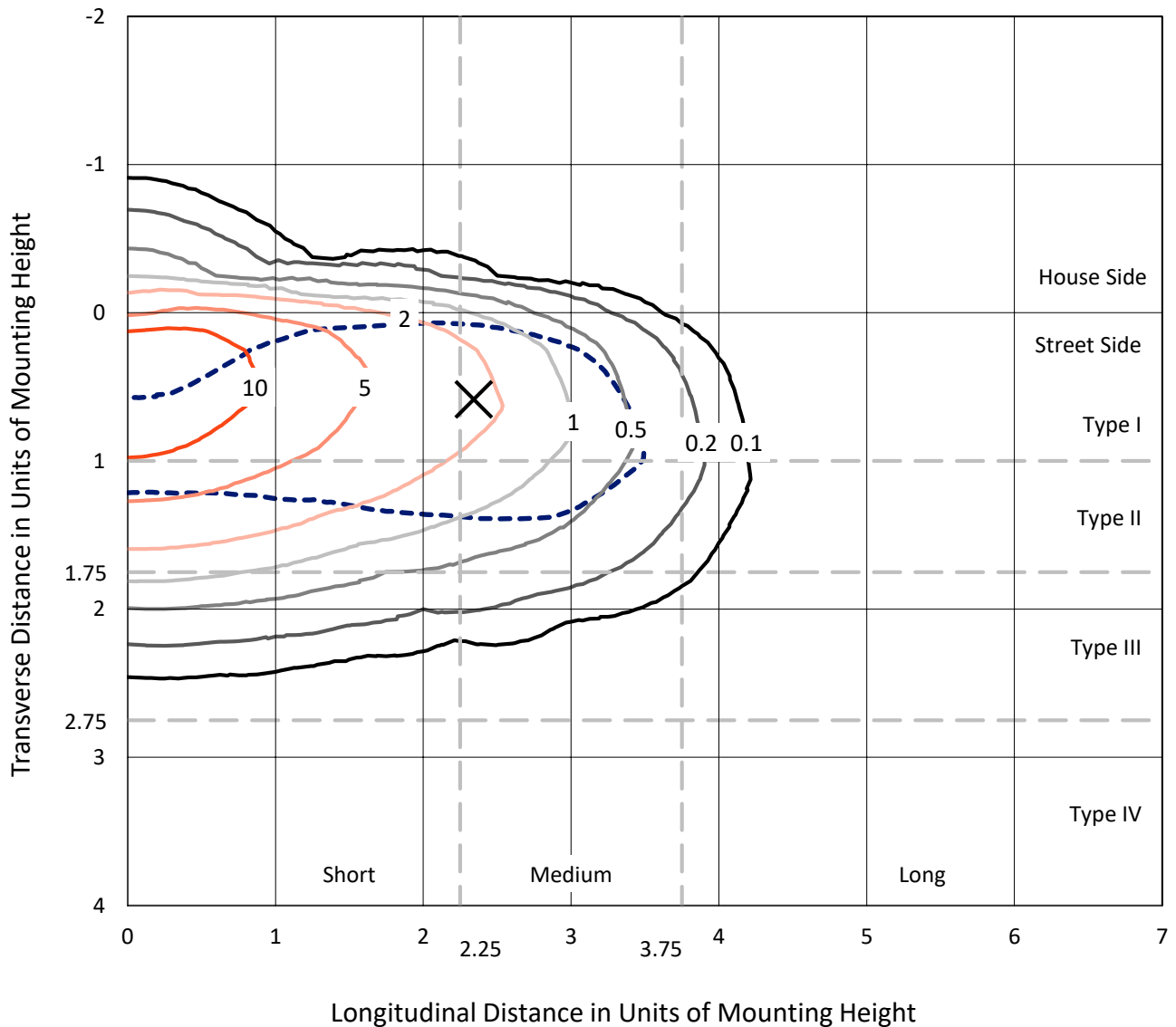
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

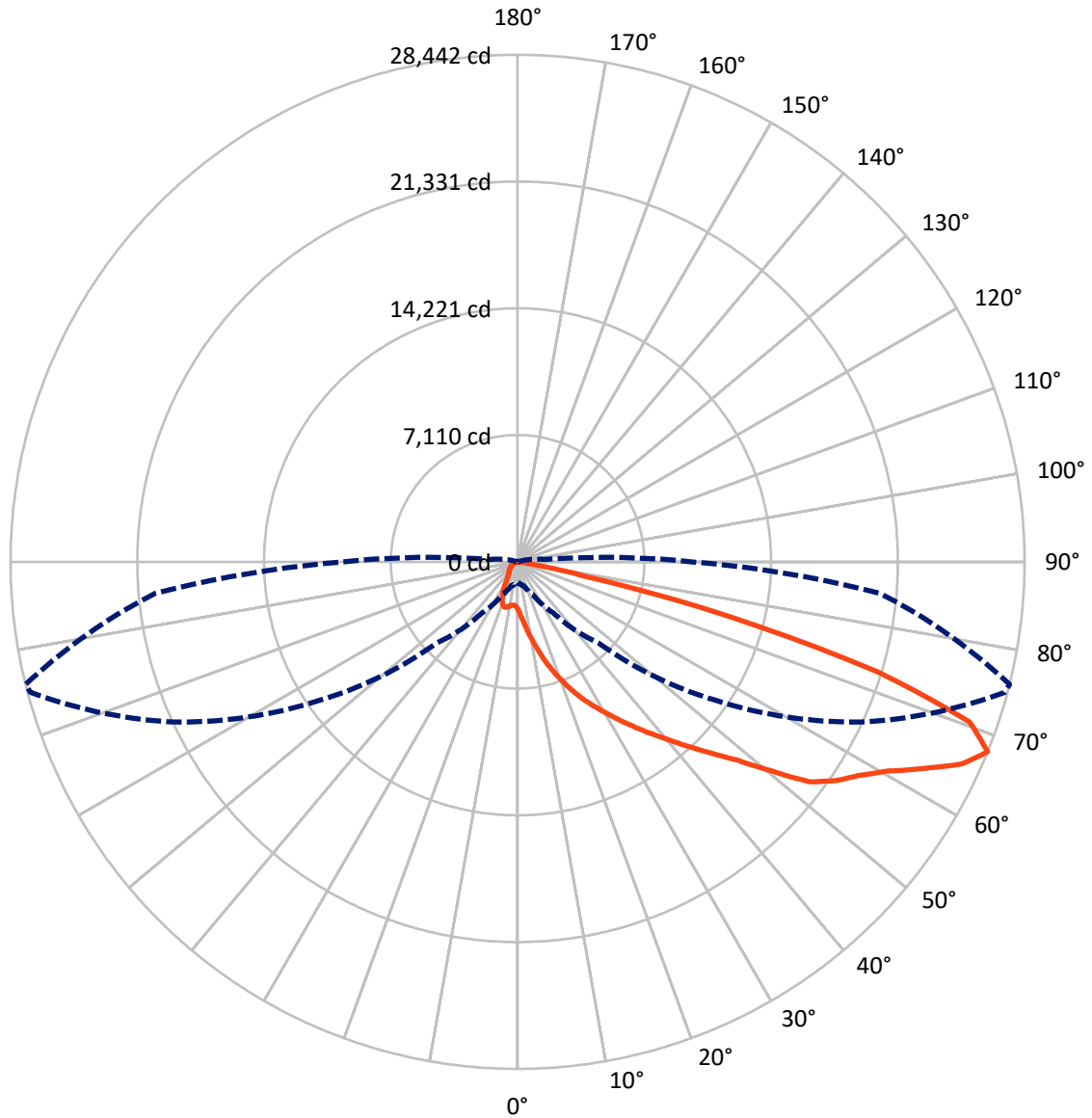
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1554.4	0.0	1554.4
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	29747.6	0.0	29747.6
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	31302.0	0.0	31302.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.2	1.1
10°-20°	1308.9	4.2
20°-30°	2663.2	8.5
30°-40°	4622.4	14.8
40°-50°	6530.9	20.9
50°-60°	7406.3	23.7
60°-70°	6142.8	19.6
70°-80°	2225.1	7.1
80°-90°	72.2	0.2
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°	31302.0	100.0
0°-180°	31302.0	100.0

**Coefficient of Utilization**

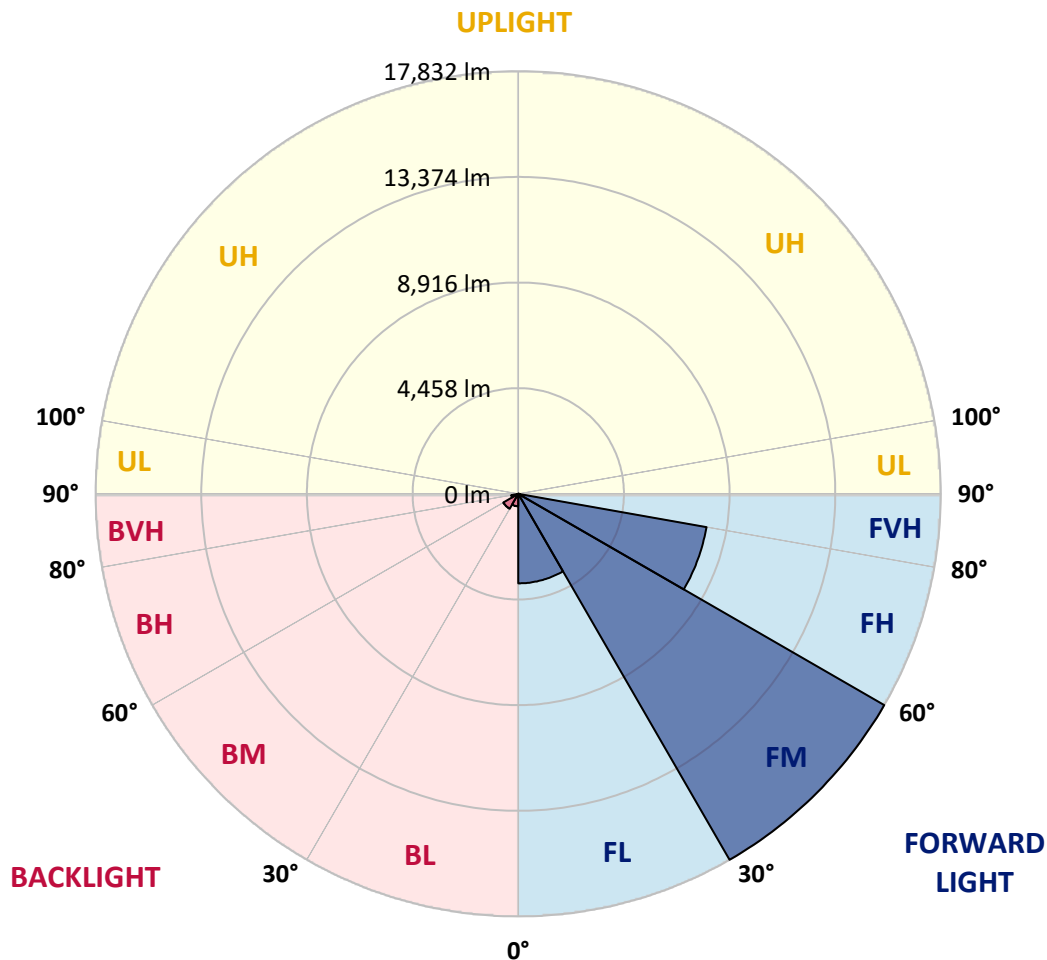


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3778.0	12.1			
FM (30°-60°)	17832.1	57.0			
FH (60°-80°)	8067.6	25.8			G4/12000
FVH (80°-90°)	69.9	0.2			G1/100
BL (0°-30°)	524.2	1.7	B2/1000		
BM (30°-60°)	727.5	2.3	B1/1000		
BH (60°-80°)	300.4	1.0	B1/500		G1/500
BVH (80°-90°)	2.3	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3
2.5°	3963.8	3874.6	3895.2	3837.6	3733.4	3519.4	3337.0	3164.2	2962.5	2955.7	2789.7
5°	5344.9	5269.5	5259.9	5143.3	4954.0	4590.6	4236.7	3833.5	3383.6	3350.7	2998.2
7.5°	6598.5	6538.2	6516.2	6377.7	6025.2	5671.3	5210.5	4618.0	3914.4	3854.0	3279.4
10°	7561.3	7532.5	7538.0	7439.3	7137.5	6808.4	6203.5	5447.8	4516.5	4423.2	3616.8
12.5°	8291.0	8297.9	8347.2	8286.9	8118.2	7874.1	7228.1	6332.4	5183.1	5055.5	4002.2
15°	8827.3	8861.6	8952.1	9027.5	9015.2	8804.0	8211.5	7230.8	5890.8	5749.5	4431.5
17.5°	9174.3	9212.7	9344.4	9511.7	9665.3	9615.9	9160.6	8097.6	6606.7	6443.5	4890.9
20°	9478.8	9524.0	9665.3	9886.1	10172.8	10234.5	9935.5	8938.4	7321.3	7122.4	5365.5
22.5°	10138.5	10137.1	10223.5	10352.4	10625.4	10784.5	10595.2	9718.8	8027.7	7820.6	5849.7
25°	11331.7	11286.5	11256.3	11154.8	11215.1	11313.9	11208.3	10448.4	8738.1	8528.3	6340.7
27.5°	12749.9	12777.3	12533.2	12260.3	12049.0	11947.6	11774.7	11124.6	9421.2	9190.7	6820.7
30°	14246.3	14254.5	13966.5	13618.1	13153.1	12767.7	12468.7	11770.6	10123.4	9872.4	7287.0
32.5°	15595.9	15542.4	15257.1	14782.5	14195.5	13762.1	13140.8	12492.1	10866.8	10624.0	7805.5
35°	16665.7	16602.6	16255.6	15823.5	15214.6	14778.4	14030.9	13212.1	11648.6	11411.3	8325.3
37.5°	17447.5	17373.4	17016.8	16572.4	16047.1	15793.4	15063.7	13995.3	12501.7	12246.5	8872.5
40°	17719.0	17654.6	17431.0	17105.9	16683.5	16625.9	16159.6	14896.4	13430.2	13158.6	9492.5
42.5°	17557.2	17494.1	17414.5	17304.8	17129.3	17184.1	17193.7	15923.7	14461.6	14194.1	10176.9
45°	16915.3	16859.1	16941.4	17101.8	17319.9	17591.5	18137.3	17027.8	15613.7	15328.4	10968.3
47.5°	15970.3	15929.2	16156.8	16557.3	17195.1	17944.0	19000.0	18188.1	16907.1	16642.4	11955.8
50°	14626.2	14619.3	15074.7	15805.7	16786.4	18114.0	19891.6	19507.5	18703.8	18425.4	13328.7
52.5°	12533.2	12546.9	13442.5	14612.5	16069.1	17998.8	20464.9	21202.8	20794.0	20504.6	14517.8
55°	10540.3	10622.6	11257.7	12944.7	14969.1	17570.9	20662.4	21994.1	21947.5	21673.2	15178.9
57.5°	8588.6	8738.1	9349.8	10925.7	13363.0	16584.8	20554.0	22337.0	22806.1	22596.2	16051.2
60°	6473.7	6542.3	7247.3	8720.3	11301.6	14785.3	19768.1	22523.6	23980.1	23834.8	17317.2
62.5°	4118.8	4290.2	4915.6	6336.5	8799.8	12286.3	18443.2	22520.8	25449.1	25528.6	18950.7
65°	2169.8	2370.0	2701.9	3926.7	6047.2	9495.2	16450.3	22309.6	27251.3	27362.4	20227.6
67.5°	1169.9	1227.5	1403.1	2038.1	3507.0	6432.6	13522.1	21267.2	28295.0	28441.8	20405.9
70°	855.8	887.4	953.2	1127.4	1765.2	3736.1	9866.9	18904.0	26949.5	26894.7	18130.5
72.5°	657.0	706.3	755.7	825.7	1014.9	1994.2	6143.2	14803.1	21503.1	21141.0	13552.3
75°	518.4	526.7	596.6	659.7	761.2	1135.6	2728.0	8621.5	13124.3	12267.1	7027.8
77.5°	414.2	419.7	460.8	515.7	611.7	746.1	844.9	3391.8	4190.1	3738.8	1525.2
80°	245.5	259.2	342.9	397.7	507.5	470.4	308.6	736.5	654.2	592.5	256.5
82.5°	137.2	148.1	193.4	314.1	353.9	224.9	153.6	198.9	153.6	149.5	72.7
85°	0.0	6.9	124.8	194.8	144.0	49.4	64.5	65.8	45.3	42.5	28.8
87.5°	0.0	0.0	38.4	37.0	5.5	8.2	15.1	21.9	17.8	17.8	15.1
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°	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3	2655.3
2.5°	2707.4	2633.4	2493.5	2356.3	2241.1	2146.5	2061.4	2027.1	1999.7	1995.6	1973.7
5°	2828.1	2678.6	2411.2	2191.7	2045.0	1940.7	1851.6	1796.7	1754.2	1737.8	1722.7
7.5°	3010.5	2784.2	2400.2	2147.8	1972.3	1796.7	1632.1	1453.8	1342.7	1300.2	1275.5
10°	3232.7	2924.1	2441.4	2135.5	1828.3	1458.0	1185.0	958.7	866.8	836.6	828.4
12.5°	3492.0	3098.3	2512.7	2058.7	1521.0	1035.5	817.4	740.6	720.1	710.5	710.5
15°	3789.6	3289.0	2563.4	1836.5	1124.7	783.2	707.7	672.1	650.1	637.8	639.1
17.5°	4094.1	3475.5	2538.7	1514.2	829.8	696.7	640.5	602.1	571.9	559.6	556.8
20°	4401.3	3648.3	2401.6	1127.4	702.2	632.3	569.2	526.7	496.5	484.2	481.4
22.5°	4719.5	3795.1	2160.2	827.0	630.9	561.0	499.2	456.7	427.9	417.0	411.5
25°	5029.5	3914.4	1822.8	669.3	563.7	493.8	434.8	395.0	368.9	358.0	356.6
27.5°	5318.9	3989.8	1431.9	591.1	504.7	433.4	379.9	344.3	322.3	314.1	312.7
30°	5579.5	3996.7	1058.8	533.5	452.6	381.3	331.9	300.4	281.2	272.9	270.2
32.5°	5842.8	3939.1	770.8	481.4	404.6	336.0	288.0	263.3	249.6	242.8	242.8
35°	6091.0	3806.0	600.7	436.2	358.0	292.1	253.7	235.9	227.7	220.8	220.8
37.5°	6333.8	3615.4	510.2	396.4	314.1	255.1	223.6	212.6	205.7	198.9	198.9
40°	6580.7	3375.4	463.6	359.3	278.4	226.3	198.9	189.3	182.4	176.9	175.6
42.5°	6883.8	3098.3	433.4	325.1	246.9	200.2	175.6	164.6	159.1	153.6	150.9
45°	7234.9	2859.7	408.7	290.8	220.8	178.3	152.2	141.3	133.0	126.2	124.8
47.5°	7741.0	2686.9	375.8	253.7	196.1	155.0	131.7	119.3	107.0	100.1	98.8
50°	8387.0	2544.2	333.3	220.8	171.4	131.7	109.7	94.6	83.7	76.8	76.8
52.5°	8708.0	2357.7	294.9	192.0	144.0	111.1	89.2	71.3	65.8	59.0	59.0
55°	8836.9	2215.0	256.5	163.2	119.3	91.9	69.9	54.9	50.7	46.6	45.3
57.5°	9199.0	2173.9	223.6	138.5	98.8	72.7	53.5	41.1	38.4	32.9	32.9
60°	9781.9	2194.5	193.4	118.0	79.5	56.2	39.8	31.5	28.8	23.3	23.3
62.5°	10411.4	2168.4	163.2	101.5	61.7	41.1	27.4	23.3	23.3	13.7	12.3
65°	10532.1	1931.1	139.9	83.7	48.0	30.2	17.8	15.1	20.6	2.7	0.0
67.5°	9775.0	1497.7	120.7	64.5	35.7	23.3	13.7	6.9	17.8	0.0	0.0
70°	7816.4	951.9	97.4	46.6	27.4	19.2	11.0	2.7	13.7	0.0	0.0
72.5°	5527.3	552.7	76.8	32.9	23.3	15.1	8.2	0.0	8.2	0.0	0.0
75°	2795.2	294.9	48.0	24.7	17.8	11.0	5.5	0.0	1.4	0.0	0.0
77.5°	604.9	137.2	30.2	17.8	12.3	6.9	2.7	0.0	0.0	0.0	0.0
80°	131.7	60.3	19.2	11.0	6.9	4.1	0.0	0.0	0.0	0.0	0.0
82.5°	48.0	31.5	9.6	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.1	16.5	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.7	5.5	1.4	1.4	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)