

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: P321979

Luminaire Tested: **GAN-SA5D-750-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321979  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5D-750-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27586 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

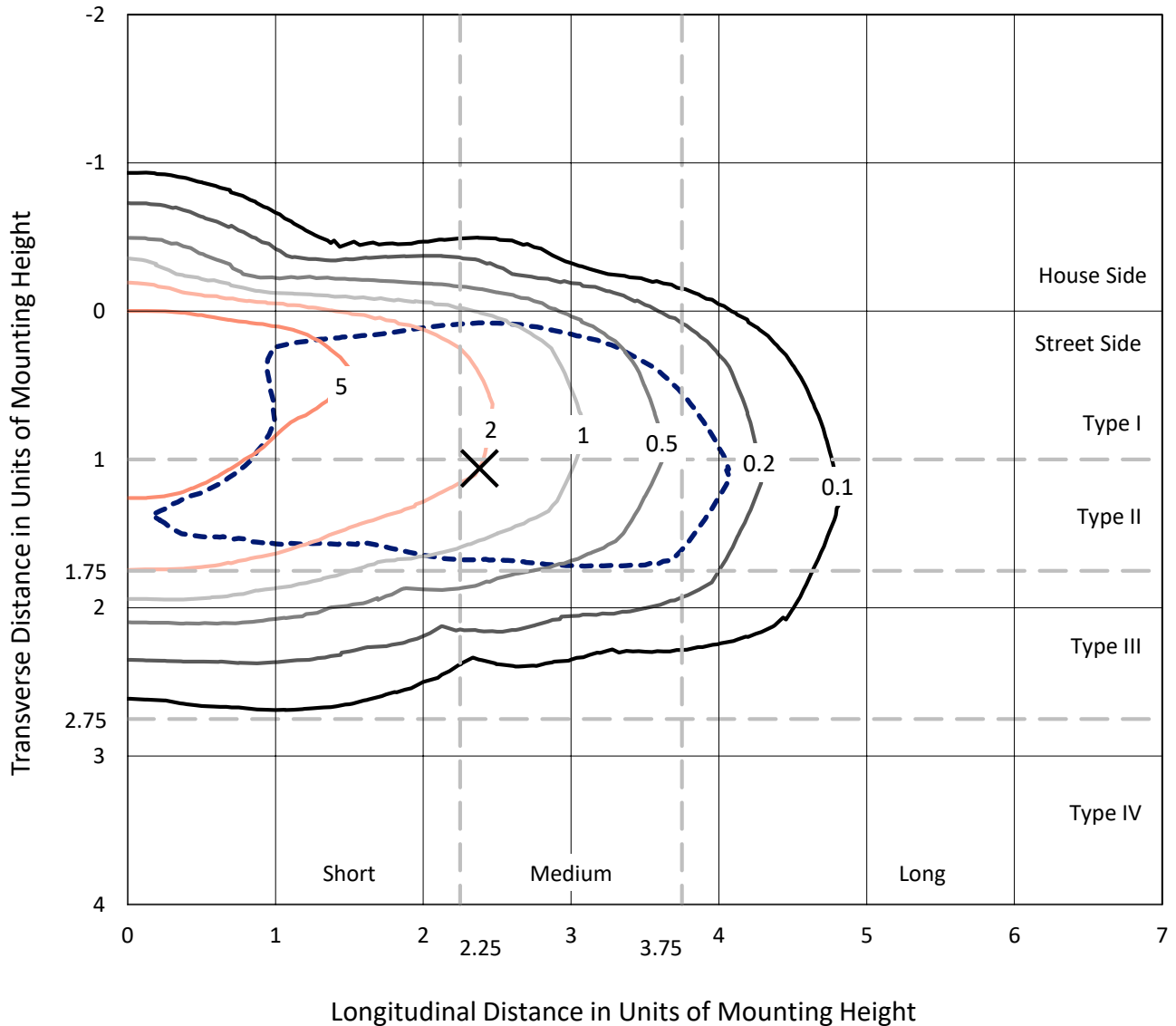
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

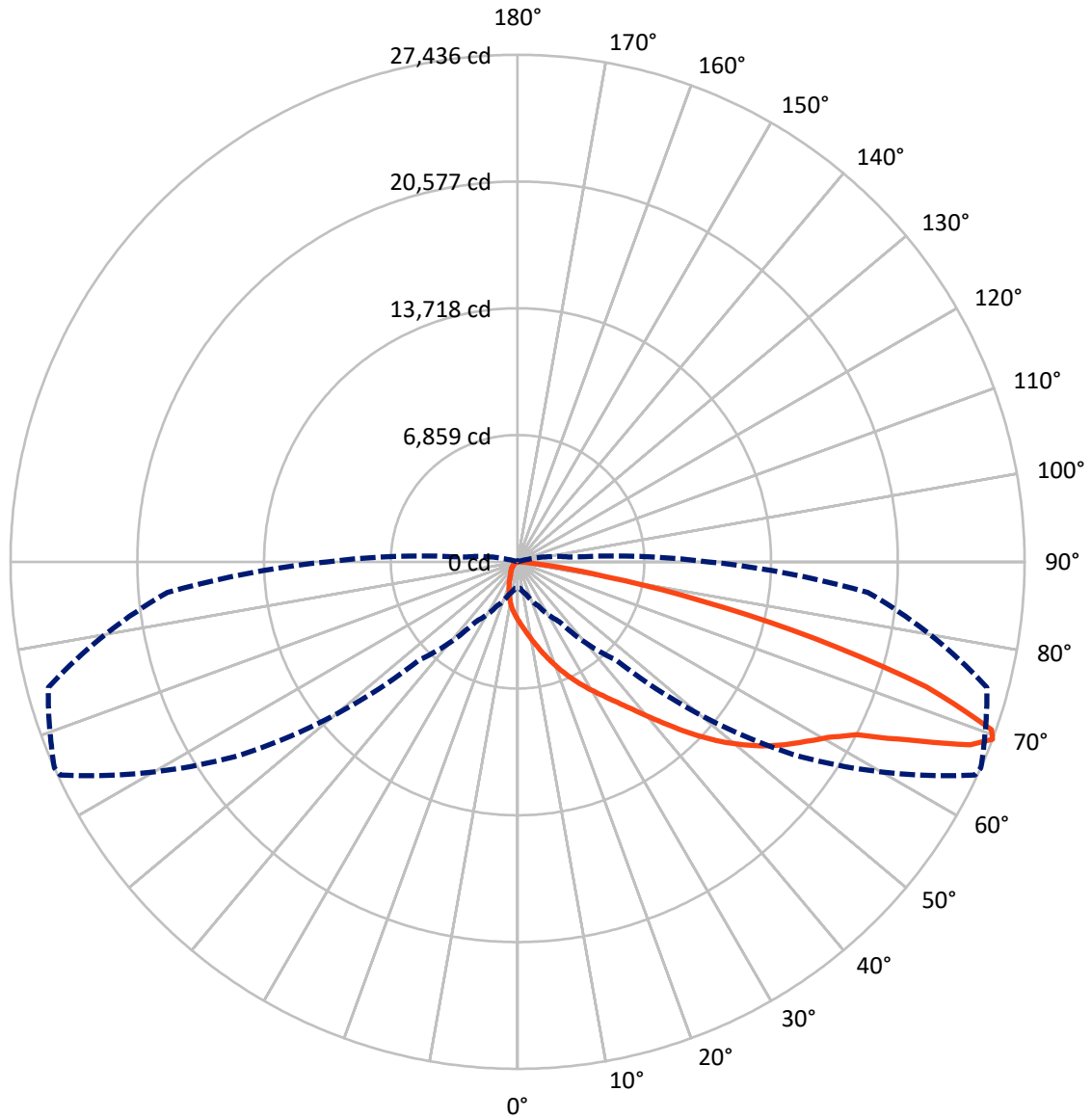
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1654.8	0.0	1654.8
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	25931.2	0.0	25931.2
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	27586.0	0.0	27586.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.5	1.1
10°-20°	903.2	3.3
20°-30°	1572.7	5.7
30°-40°	2759.4	10.0
40°-50°	4618.7	16.7
50°-60°	6789.1	24.6
60°-70°	6970.7	25.3
70°-80°	3441.2	12.5
80°-90°	227.5	0.8
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°	27586.0	100.0
0°-180°	27586.0	100.0

**Coefficient of Utilization**



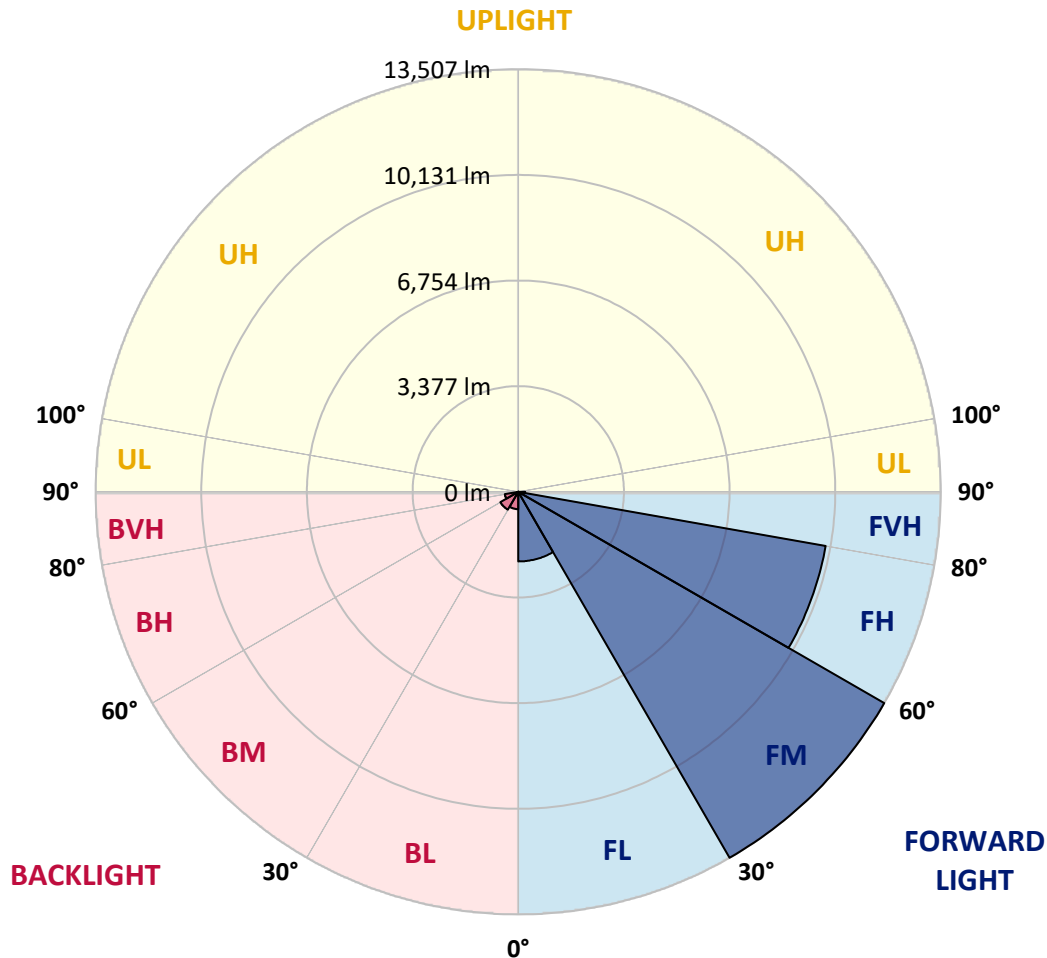
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2225.9	8.1			
FM (30°-60°)	13507.4	49.0			
FH (60°-80°)	9975.8	36.2			G4/12000
FVH (80°-90°)	222.0	0.8			G2/225
BL (0°-30°)	553.4	2.0	B2/1000		
BM (30°-60°)	659.8	2.4	B1/1000		
BH (60°-80°)	436.1	1.6	B1/500		G1/500
BVH (80°-90°)	5.5	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°	66°	75°	85°
0°	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4
2.5°	3694.9	3679.2	3672.6	3643.8	3594.0	3556.0	3482.7	3397.5	3381.8	3299.2	3198.3
5°	4174.5	4161.4	4152.2	4111.6	4060.5	3964.8	3831.2	3672.6	3642.5	3485.3	3283.5
7.5°	4508.6	4532.2	4532.2	4506.0	4441.8	4369.7	4205.9	3989.7	3951.7	3710.6	3397.5
10°	4703.8	4732.6	4754.9	4777.2	4768.0	4739.2	4584.6	4340.9	4295.0	3975.3	3529.8
12.5°	4722.2	4751.0	4813.9	4906.9	4997.3	5062.8	4965.9	4730.0	4677.6	4281.9	3687.1
15°	4620.0	4650.1	4747.1	4927.9	5146.7	5338.0	5369.4	5161.1	5107.4	4647.5	3883.6
17.5°	4441.8	4461.4	4600.3	4850.6	5193.9	5545.0	5735.0	5623.6	5573.8	5065.5	4102.4
20°	4309.4	4323.8	4445.7	4714.3	5165.0	5674.7	6080.9	6115.0	6062.6	5513.6	4339.6
22.5°	4536.1	4562.3	4566.2	4693.3	5086.4	5738.9	6384.9	6598.5	6559.1	5989.2	4572.8
25°	5155.9	5186.0	5086.4	5007.8	5153.2	5767.8	6645.6	7093.7	7062.3	6501.5	4807.3
27.5°	5974.8	6006.2	5877.8	5643.3	5503.1	5876.5	6877.5	7596.9	7595.6	7043.9	5060.2
30°	6779.3	6810.7	6679.7	6445.2	6122.8	6184.4	7078.0	8123.6	8131.5	7603.4	5328.8
32.5°	7623.1	7662.4	7527.4	7226.1	6889.3	6716.4	7359.7	8652.9	8697.5	8252.0	5631.5
35°	8582.2	8587.4	8397.4	8081.7	7693.8	7427.8	7811.8	9246.5	9352.6	9055.2	6015.4
37.5°	9522.9	9560.9	9405.0	8907.1	8550.7	8249.4	8483.9	9988.1	10138.8	10036.6	6517.2
40°	10220.0	10299.9	10277.7	9740.4	9402.4	9187.5	9318.5	10869.9	11061.2	11179.1	7150.1
42.5°	10657.6	10717.9	10820.1	10496.5	10189.9	10225.2	10303.9	11897.1	12133.0	12481.5	7877.3
45°	11159.5	11188.3	11273.4	11130.6	10923.6	11280.0	11349.4	13054.1	13301.7	13882.2	8684.4
47.5°	11772.7	11840.8	11864.4	11733.3	11639.0	12212.9	12357.0	14106.2	14453.4	15382.4	9538.7
50°	12553.6	12571.9	12612.5	12527.4	12433.0	13014.8	13261.1	15210.8	15526.5	16887.9	10381.2
52.5°	13317.5	13383.0	13524.5	13470.8	13432.8	13697.4	14066.9	16206.6	16559.0	18143.1	11222.3
55°	13537.6	13593.9	14082.6	14416.8	14726.0	14538.6	14837.3	17098.9	17480.1	19264.7	12032.1
57.5°	12658.4	12772.4	13618.8	14488.8	15771.6	15846.2	15896.0	18014.7	18356.7	20124.2	12874.6
60°	10436.2	10458.5	11847.3	13339.7	15598.6	16987.5	17442.1	18998.7	19285.7	20924.8	13883.5
62.5°	6637.8	6864.4	8388.3	10495.2	13769.5	16822.4	19311.9	20487.2	20592.0	21885.2	15330.0
65°	3161.6	3308.4	4406.4	6484.5	9973.7	14708.9	20602.5	23179.8	23226.9	23789.0	17262.6
67.5°	1750.5	1821.3	2344.0	3490.5	5830.6	10402.1	20081.0	26368.9	26413.5	25733.4	18958.1
69°	1369.2	1429.5	1840.9	2631.0	3953.0	7476.3	18172.0	27303.1	27435.5	26290.3	19018.4
70°	1162.2	1221.2	1585.4	2222.2	3178.7	5776.9	16175.1	27071.2	27211.4	26237.9	18569.0
72.5°	711.5	745.5	1056.1	1564.4	2130.5	2906.1	9975.0	22894.1	23131.3	24068.1	15958.9
75°	479.6	497.9	660.4	1079.7	1523.8	1496.3	5182.1	16137.1	16650.7	18722.3	11787.1
77.5°	343.3	360.3	442.9	698.4	1067.9	987.9	2346.7	10028.7	10138.8	11228.9	6428.1
80°	195.2	211.0	313.2	415.4	724.6	659.1	932.9	4790.3	4845.3	4815.2	2146.2
82.5°	102.2	115.3	171.6	273.8	465.1	431.1	387.8	1603.8	1611.6	1340.4	470.4
85°	19.7	23.6	85.2	187.4	239.8	187.4	158.5	376.0	383.9	339.4	116.6
87.5°	0.0	1.3	34.1	41.9	47.2	48.5	51.1	73.4	78.6	106.1	31.4
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°	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4
2.5°	3153.8	3106.6	3016.2	2911.4	2830.2	2750.2	2687.3	2621.8	2598.2	2586.4	2585.1
5°	3185.2	3085.7	2894.4	2697.8	2536.7	2384.7	2275.9	2172.4	2123.9	2101.7	2092.5
7.5°	3237.6	3077.8	2769.9	2469.8	2237.9	2047.9	1897.3	1784.6	1728.2	1704.6	1695.5
10°	3299.2	3067.3	2624.4	2228.7	1932.6	1736.1	1586.7	1475.3	1413.8	1387.6	1374.5
12.5°	3371.3	3049.0	2456.7	1985.0	1671.9	1475.3	1294.5	1157.0	1086.2	1056.1	1041.7
15°	3460.4	3030.6	2281.2	1755.7	1442.6	1202.8	1005.0	911.9	897.5	892.3	893.6
17.5°	3548.2	3001.8	2089.9	1529.1	1201.5	939.5	838.6	833.3	835.9	835.9	835.9
20°	3626.8	2936.3	1881.5	1335.2	972.2	792.7	771.7	762.6	756.0	750.8	744.2
22.5°	3688.4	2848.5	1681.1	1142.5	794.0	725.9	693.1	664.3	640.7	625.0	617.1
25°	3730.3	2731.9	1497.6	957.8	714.1	660.4	601.4	552.9	516.2	494.0	484.8
27.5°	3761.7	2606.1	1333.8	801.9	659.1	584.4	507.1	449.4	411.4	391.8	383.9
30°	3784.0	2463.3	1189.7	704.9	597.5	504.4	421.9	365.6	338.0	327.6	322.3
32.5°	3805.0	2304.7	1053.4	659.1	539.8	431.1	353.8	310.5	293.5	280.4	276.5
35°	3857.4	2158.0	923.7	610.6	480.9	368.2	304.0	272.5	255.5	247.6	245.0
37.5°	3981.9	2049.2	799.3	560.8	421.9	318.4	266.0	243.7	228.0	220.1	217.5
40°	4182.3	1994.2	694.4	507.1	364.3	280.4	241.1	220.1	203.1	191.3	188.7
42.5°	4477.1	2002.1	621.1	453.3	318.4	250.3	217.5	192.6	174.3	163.8	161.2
45°	4834.8	2059.7	570.0	400.9	280.4	226.7	191.3	165.1	148.1	138.9	136.3
47.5°	5222.7	2152.8	528.0	353.8	250.3	204.4	165.1	137.6	123.2	115.3	114.0
50°	5631.5	2243.2	484.8	307.9	224.1	182.1	138.9	114.0	102.2	95.6	93.0
52.5°	6045.5	2348.0	445.5	266.0	201.8	155.9	115.3	93.0	83.9	78.6	76.0
55°	6491.0	2426.6	407.5	233.2	179.5	132.3	95.6	77.3	69.4	62.9	61.6
57.5°	7015.1	2548.4	368.2	201.8	153.3	110.1	78.6	61.6	55.0	48.5	47.2
60°	7722.7	2691.3	326.3	178.2	125.8	90.4	64.2	49.8	41.9	36.7	35.4
62.5°	8655.6	2849.8	273.8	155.9	102.2	73.4	51.1	39.3	30.1	23.6	23.6
65°	9838.7	3107.9	224.1	131.0	83.9	60.3	39.3	28.8	17.0	10.5	10.5
67.5°	10529.2	3152.5	180.8	107.4	68.1	51.1	32.8	19.7	5.2	1.3	0.0
69°	10307.8	2894.4	153.3	91.7	59.0	48.5	30.1	14.4	2.6	0.0	0.0
70°	9891.1	2646.7	135.0	81.2	53.7	45.9	28.8	10.5	2.6	0.0	0.0
72.5°	8173.4	1884.1	102.2	60.3	39.3	40.6	26.2	6.6	2.6	0.0	0.0
75°	5953.8	1145.2	73.4	41.9	24.9	30.1	18.3	2.6	1.3	0.0	0.0
77.5°	3312.3	539.8	45.9	23.6	15.7	18.3	9.2	0.0	0.0	0.0	0.0
80°	1075.7	146.7	21.0	13.1	9.2	10.5	3.9	0.0	0.0	0.0	0.0
82.5°	199.2	41.9	11.8	6.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0
85°	43.2	17.0	6.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.4	5.2	1.3	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)