

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P387086

Luminaire Tested: GAW-SA2D-750-U-SL3-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387086  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2D-750-U-SL3-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13834 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3

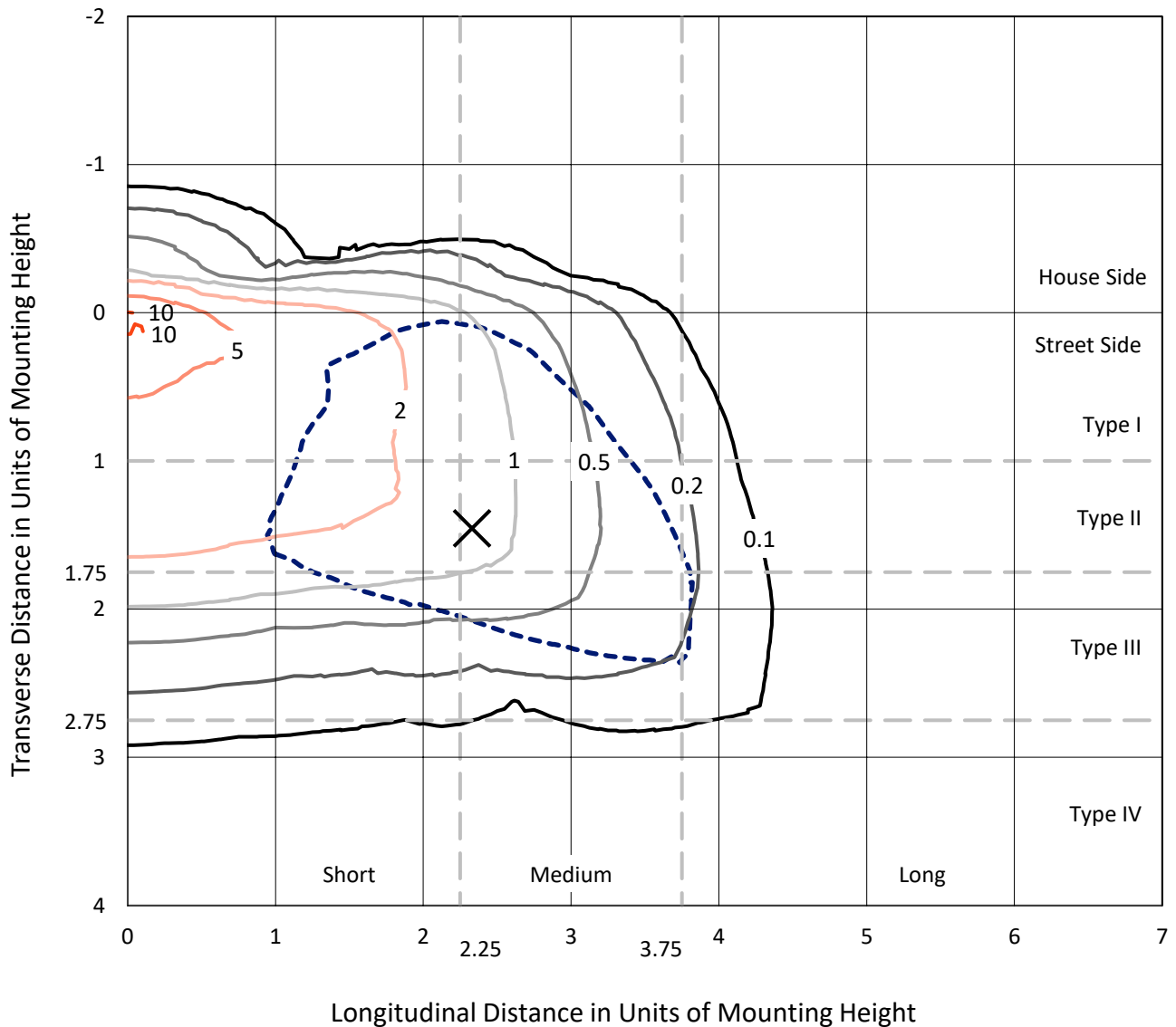
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

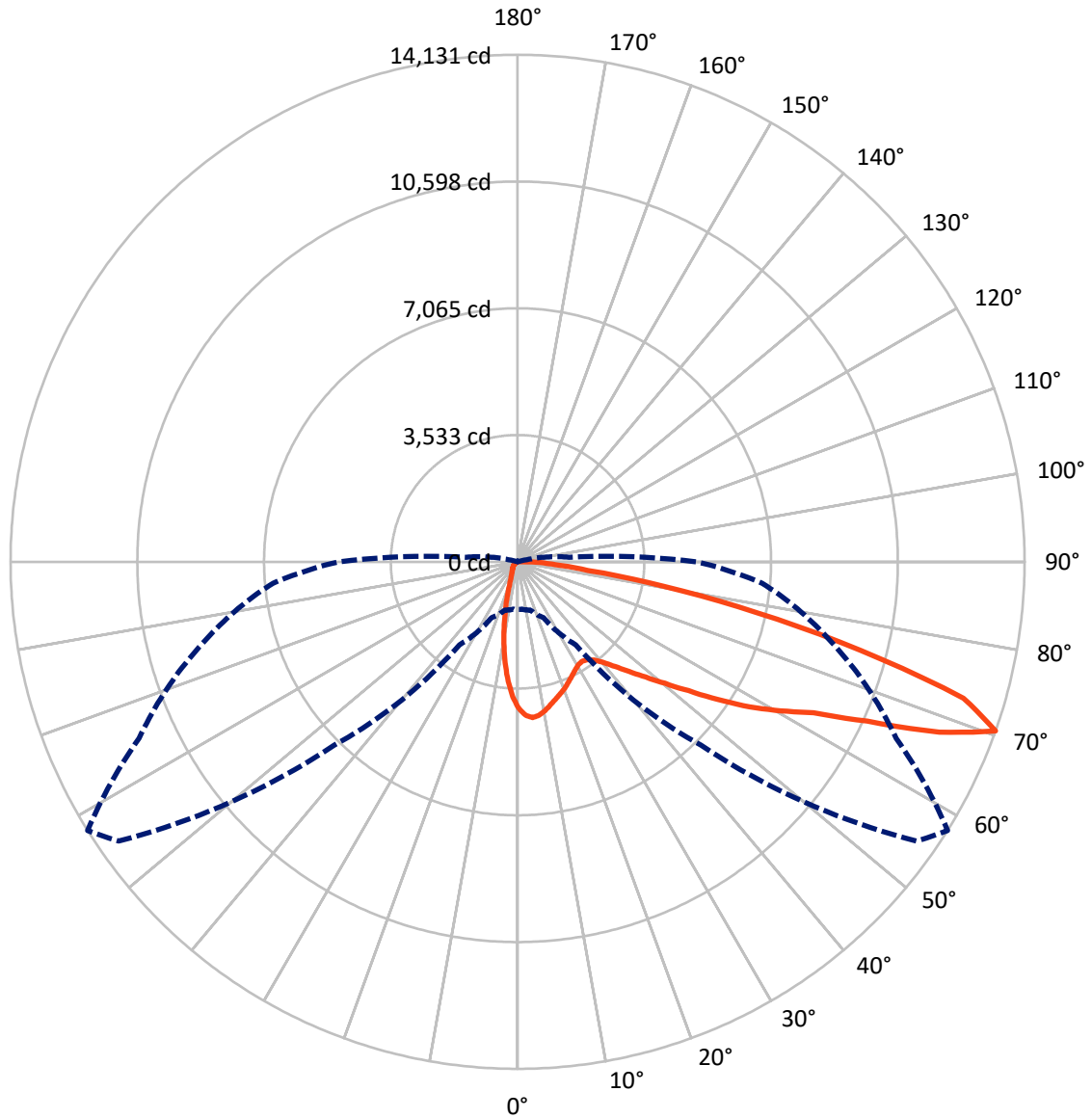
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1183.9	0.0	1183.9
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	12650.1	0.0	12650.1
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	13834.0	0.0	13834.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.2	2.4
10°-20°	701.3	5.1
20°-30°	922.0	6.7
30°-40°	1221.1	8.8
40°-50°	1825.2	13.2
50°-60°	2923.9	21.1
60°-70°	3685.6	26.6
70°-80°	1988.0	14.4
80°-90°	232.7	1.7
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°	13834.0	100.0
0°-180°	13834.0	100.0

**Coefficient of Utilization**

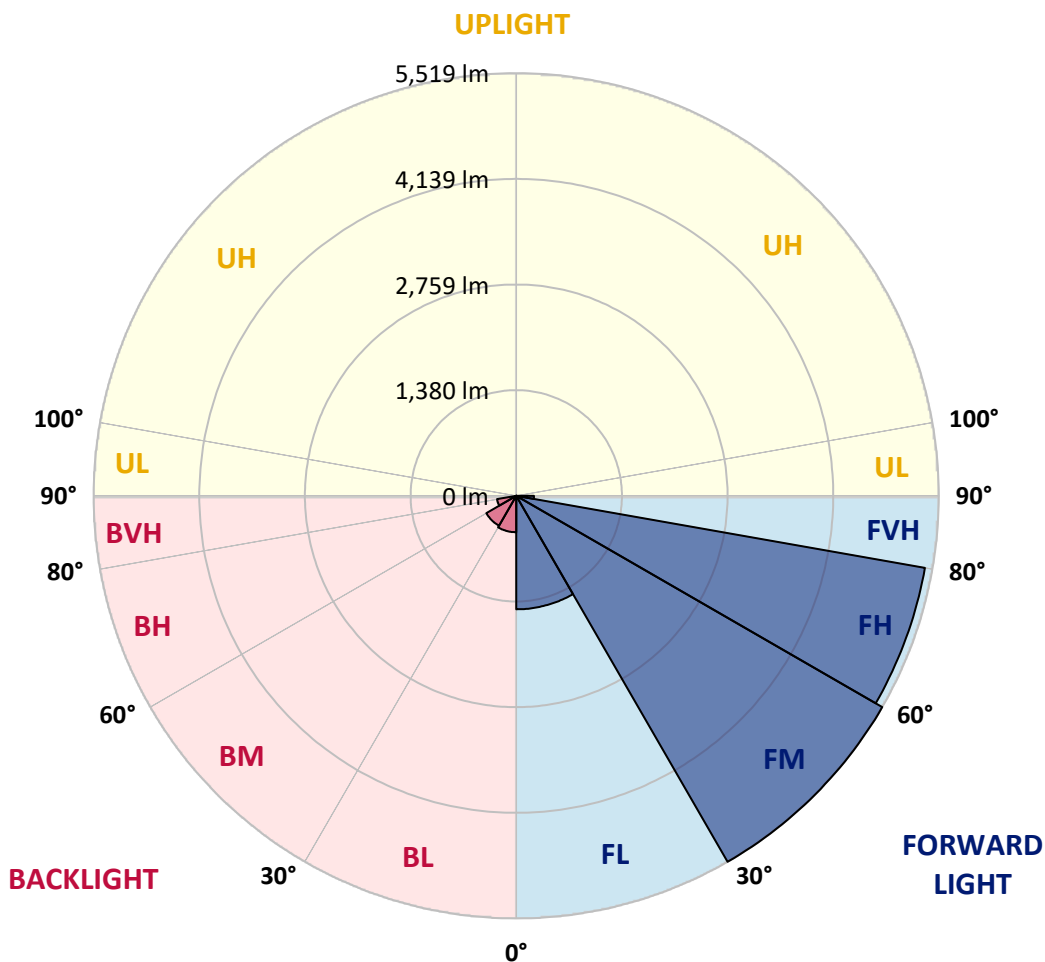


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1481.9	10.7			
FM (30°-60°)	5518.6	39.9			
FH (60°-80°)	5418.9	39.2			G3/7500
FVH (80°-90°)	230.7	1.7			G3/500
BL (0°-30°)	475.6	3.4	B1/500		
BM (30°-60°)	451.6	3.3	B1/1000		
BH (60°-80°)	254.6	1.8	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5
2.5°	4425.3	4414.4	4410.4	4403.5	4377.0	4351.1	4299.9	4285.5	4253.3	4176.8	4095.7
5°	4428.8	4428.2	4440.3	4437.4	4428.2	4416.1	4379.3	4360.3	4305.7	4196.4	4048.0
7.5°	4215.4	4226.3	4253.3	4275.2	4300.5	4333.3	4337.9	4319.5	4274.6	4156.7	3959.9
10°	3928.9	3946.1	3984.1	4027.2	4093.4	4159.0	4217.7	4215.4	4199.8	4083.6	3854.1
12.5°	3641.8	3662.0	3705.7	3769.5	3863.3	3970.3	4075.0	4089.4	4115.3	4018.0	3756.3
15°	3390.5	3407.7	3450.9	3529.1	3645.3	3789.1	3942.7	3969.1	4035.9	3966.8	3674.6
17.5°	3177.0	3188.0	3219.6	3306.5	3441.1	3615.4	3815.0	3866.8	3966.3	3926.6	3603.9
20°	3028.1	3029.8	3050.5	3111.5	3246.1	3441.1	3682.7	3756.9	3892.6	3892.1	3530.8
22.5°	2954.4	2948.7	2952.7	2987.8	3086.7	3274.8	3550.4	3638.4	3826.5	3862.7	3456.6
25°	2940.6	2936.0	2924.5	2929.1	2988.9	3129.3	3416.9	3518.7	3768.4	3844.9	3392.2
27.5°	2983.8	2988.4	2968.8	2948.1	2952.7	3035.0	3298.4	3416.3	3721.2	3844.9	3346.7
30°	3070.6	3072.9	3058.5	3031.5	2995.3	3008.5	3216.2	3334.1	3697.6	3871.4	3318.0
32.5°	3166.7	3179.3	3177.6	3155.8	3104.0	3050.5	3196.6	3304.2	3695.9	3930.0	3315.1
35°	3285.8	3300.1	3324.3	3319.7	3265.6	3177.6	3263.3	3347.9	3729.8	4026.7	3346.2
37.5°	3412.3	3434.2	3485.9	3510.7	3475.6	3376.1	3412.9	3473.3	3820.7	4183.1	3425.0
40°	3534.8	3559.6	3653.9	3751.1	3724.7	3622.3	3639.5	3687.9	3982.4	4408.1	3574.5
42.5°	3655.1	3691.9	3830.5	3990.4	4022.1	3940.4	3949.6	3988.1	4222.3	4717.5	3819.0
45°	3798.9	3840.3	4045.7	4243.0	4327.5	4291.9	4331.0	4356.3	4535.8	5126.5	4148.6
47.5°	4010.0	4057.7	4309.7	4534.6	4683.0	4706.0	4784.8	4801.5	4932.1	5602.8	4578.3
50°	4421.9	4435.1	4662.9	4867.1	5081.1	5219.1	5308.9	5321.5	5411.8	6123.4	5115.0
52.5°	4940.2	4948.8	5077.6	5214.5	5457.9	5739.7	5949.7	5967.5	5986.5	6630.8	5644.8
55°	5455.0	5453.8	5539.0	5619.5	5897.9	6307.5	6763.1	6774.0	6637.7	7112.3	6049.8
57.5°	5776.6	5807.6	5937.0	6040.6	6429.4	6954.6	7586.8	7627.1	7321.6	7468.9	6450.2
60°	5674.2	5689.1	5976.2	6359.3	7091.5	7874.4	8420.3	8430.7	7835.9	7825.0	6956.4
62.5°	4834.3	4842.4	5293.3	6083.2	7426.9	9067.5	9425.9	9257.3	8427.3	8319.1	7562.1
65°	3313.4	3365.7	3742.5	4718.7	6810.8	9815.9	10982.5	10703.5	9328.7	9031.3	8109.7
67.5°	1951.2	1940.3	2126.7	2845.7	5002.3	9318.9	12951.5	12674.2	10557.9	9508.1	7949.2
70°	1332.8	1325.4	1396.7	1722.8	2823.8	7229.0	13571.0	14130.7	11643.4	9187.1	6841.3
72.5°	951.4	955.5	1060.7	1338.6	1772.9	4211.9	11670.4	12995.2	11303.4	8009.1	5200.2
75°	646.0	656.9	807.6	1098.1	1554.3	2142.8	8281.7	9878.6	9204.4	5820.8	2988.9
77.5°	347.4	359.5	537.3	884.7	1405.3	1488.7	5327.3	6798.8	5781.7	2616.8	866.3
80°	145.0	151.9	251.4	643.1	1214.3	1307.5	3134.5	4122.7	2463.7	516.0	193.3
82.5°	62.7	66.2	104.7	383.7	907.7	1103.9	1659.6	1983.4	746.7	113.3	97.2
85°	12.1	12.7	43.1	203.1	579.3	623.0	1075.7	1054.4	335.4	48.9	70.8
87.5°	0.0	0.0	10.4	63.9	170.3	339.4	656.3	648.3	113.9	23.6	26.5
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°	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5
2.5°	4054.3	4014.6	3931.2	3828.2	3749.4	3662.5	3593.5	3506.1	3468.1	3469.8	3449.1
5°	3963.4	3881.7	3697.1	3464.1	3284.6	3099.4	2940.0	2781.3	2687.5	2657.0	2628.3
7.5°	3833.4	3704.0	3409.4	3050.5	2746.8	2449.9	2191.7	1964.4	1820.6	1750.5	1724.6
10°	3686.7	3504.9	3078.7	2605.8	2172.1	1770.6	1435.8	1144.7	1028.5	949.7	929.6
12.5°	3557.9	3311.7	2755.4	2149.7	1634.8	1150.5	831.2	650.0	571.2	540.1	535.0
15°	3436.5	3131.0	2444.2	1736.6	1132.1	708.1	528.6	467.1	448.7	443.5	443.5
17.5°	3322.0	2959.0	2139.9	1330.0	749.0	496.4	437.8	424.0	418.2	417.6	418.2
20°	3202.4	2787.0	1840.8	974.5	522.9	420.5	404.4	396.9	395.2	395.2	395.2
22.5°	3087.9	2615.0	1549.7	696.0	419.3	383.7	375.6	370.5	368.7	368.2	367.0
25°	2978.0	2451.7	1265.5	491.8	368.2	351.5	344.6	337.7	332.5	329.6	327.9
27.5°	2887.7	2306.1	1000.9	394.6	332.5	318.1	309.5	299.1	286.5	280.7	278.4
30°	2815.8	2173.3	771.4	333.1	299.1	284.7	271.5	253.7	235.3	225.5	224.9
32.5°	2759.4	2042.7	585.6	294.5	269.2	251.4	232.4	210.0	188.7	177.7	177.2
35°	2731.8	1927.6	447.5	266.3	242.8	220.3	196.7	172.0	151.3	140.9	139.8
37.5°	2750.2	1830.4	349.2	242.8	220.3	194.4	166.8	140.9	122.5	113.3	112.7
40°	2817.5	1768.3	283.6	222.6	201.3	169.7	139.8	115.6	100.1	92.6	92.0
42.5°	2960.8	1745.3	242.2	205.9	182.9	146.7	116.2	95.5	81.1	75.9	74.8
45°	3200.1	1779.2	214.0	189.8	163.9	124.8	96.1	78.2	65.6	61.6	61.0
47.5°	3518.7	1868.4	193.9	174.3	146.7	105.3	80.0	63.3	53.5	49.5	48.9
50°	3929.5	2009.9	177.2	158.8	130.6	89.2	66.2	50.0	41.4	38.5	38.5
52.5°	4376.4	2178.4	162.2	144.4	114.5	74.2	53.5	38.5	32.8	29.3	29.3
55°	4745.7	2325.7	146.1	133.5	94.9	61.6	40.8	29.3	24.2	22.4	22.4
57.5°	5114.5	2482.7	127.7	114.5	75.9	50.0	31.1	21.9	17.8	16.7	16.7
60°	5592.5	2674.9	109.9	93.2	59.8	38.0	23.0	15.5	13.2	12.7	12.7
62.5°	6118.2	2787.6	93.8	74.8	46.6	28.2	16.7	10.4	9.8	9.8	9.2
65°	6439.8	2628.3	78.8	59.8	36.2	21.3	10.9	7.5	8.6	8.1	6.9
67.5°	6029.7	2057.6	64.4	46.6	28.2	16.1	6.9	5.2	9.2	7.5	5.8
70°	4992.5	1440.4	50.0	32.8	22.4	13.8	4.6	3.5	9.8	7.5	4.6
72.5°	3736.2	964.1	39.7	21.9	16.7	12.1	4.0	1.7	8.6	6.3	4.0
75°	2041.5	388.3	31.6	13.8	10.4	8.6	2.9	1.2	5.8	4.6	2.9
77.5°	537.3	102.4	23.0	9.2	5.8	3.5	1.7	0.6	2.9	2.3	1.2
80°	136.9	39.7	15.0	6.3	4.0	1.7	0.0	0.0	0.6	0.0	0.0
82.5°	73.1	16.7	9.2	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	55.2	10.9	5.2	2.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.3	3.5	1.7	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)