

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: P387116

Luminaire Tested: GAW-SA2D-760-U-SL4-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387116  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2D-760-U-SL4-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13142 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

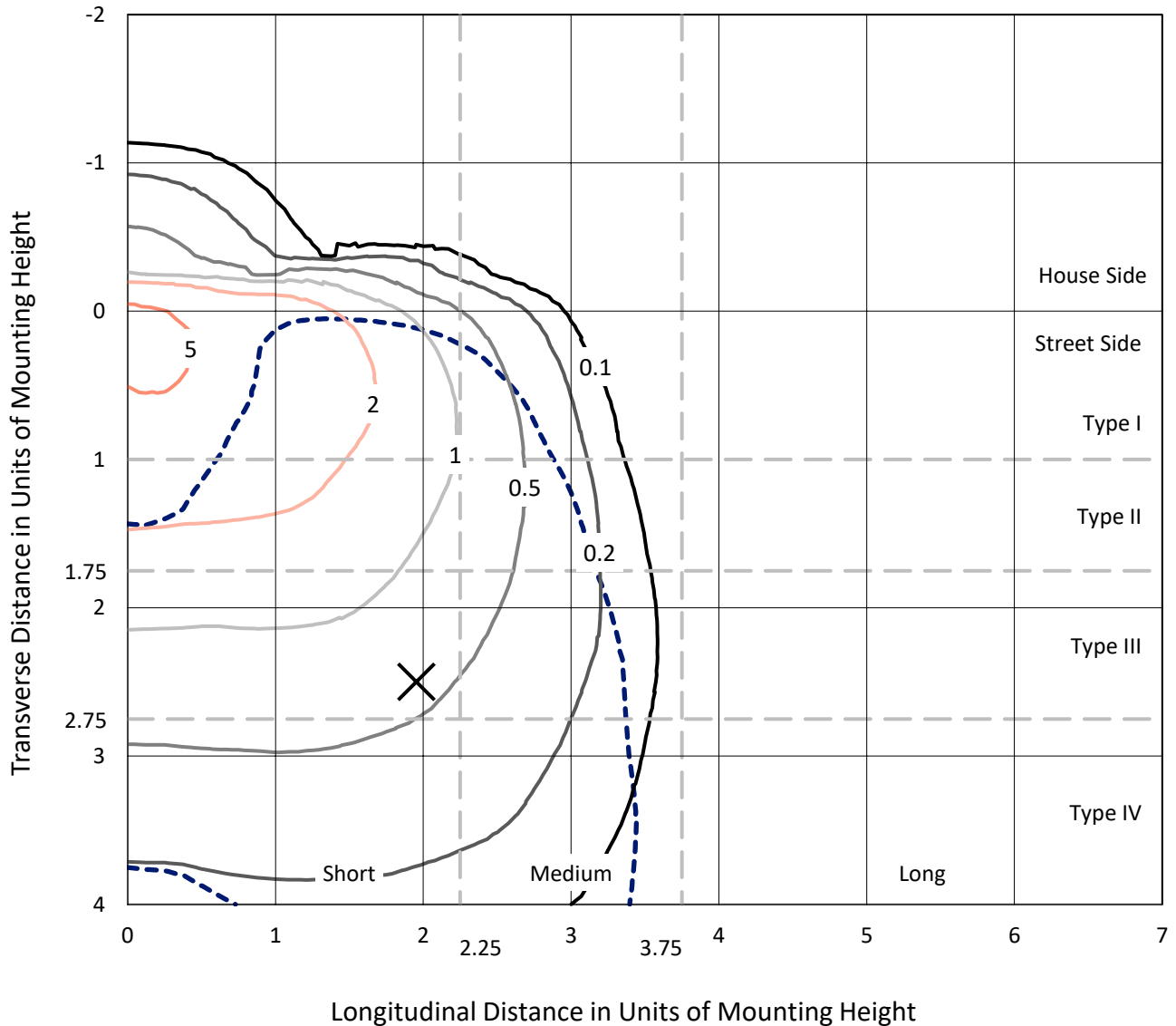
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

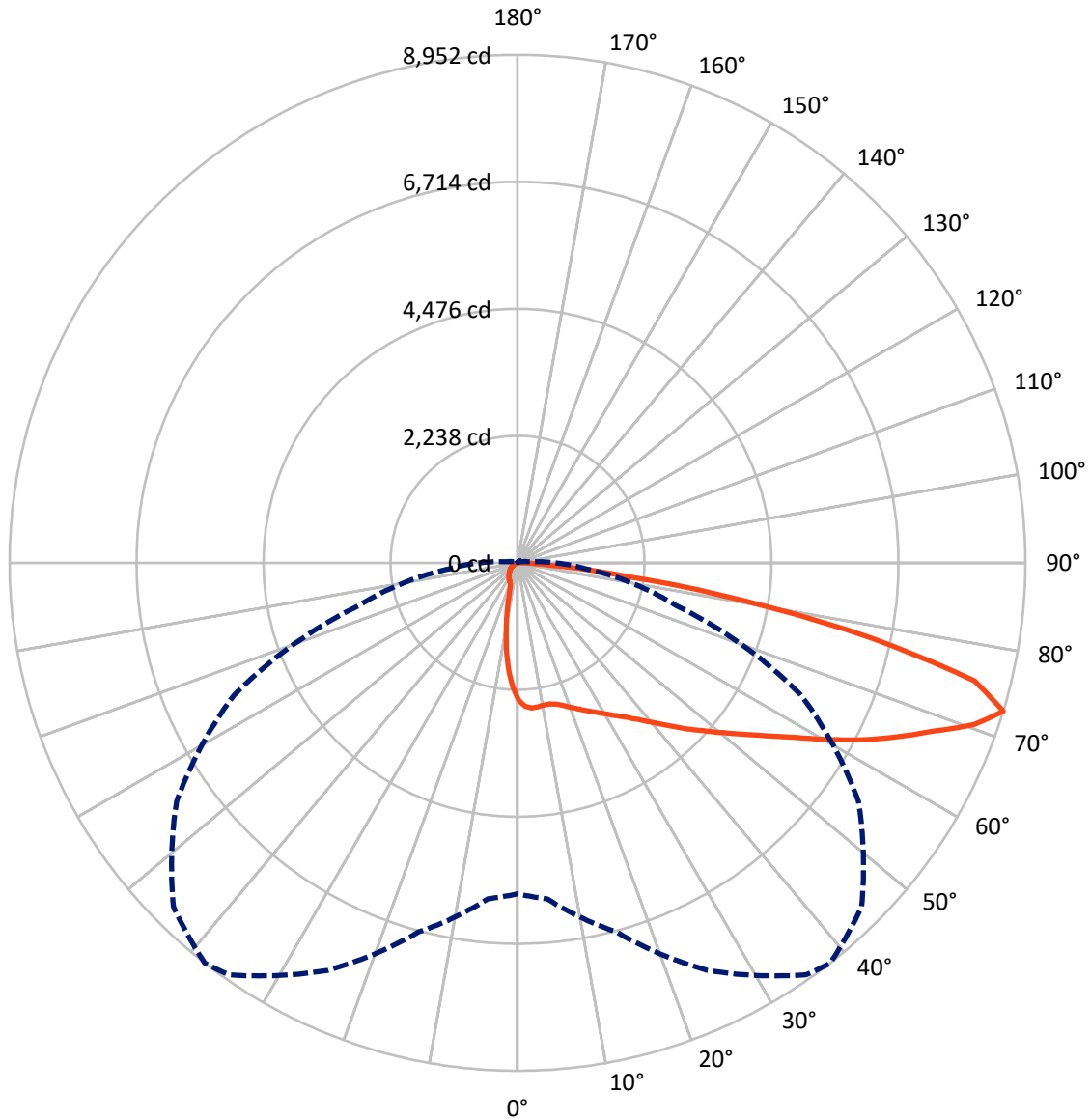
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1106.0	0.0	1106.0
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	12036.1	0.0	12036.1
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	13142.0	0.0	13142.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.0	1.6
10°-20°	503.6	3.8
20°-30°	801.0	6.1
30°-40°	1204.2	9.2
40°-50°	1837.1	14.0
50°-60°	2596.4	19.8
60°-70°	3256.7	24.8
70°-80°	2435.1	18.5
80°-90°	301.9	2.3
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°	13142.0	100.0
0°-180°	13142.0	100.0

**Coefficient of Utilization**

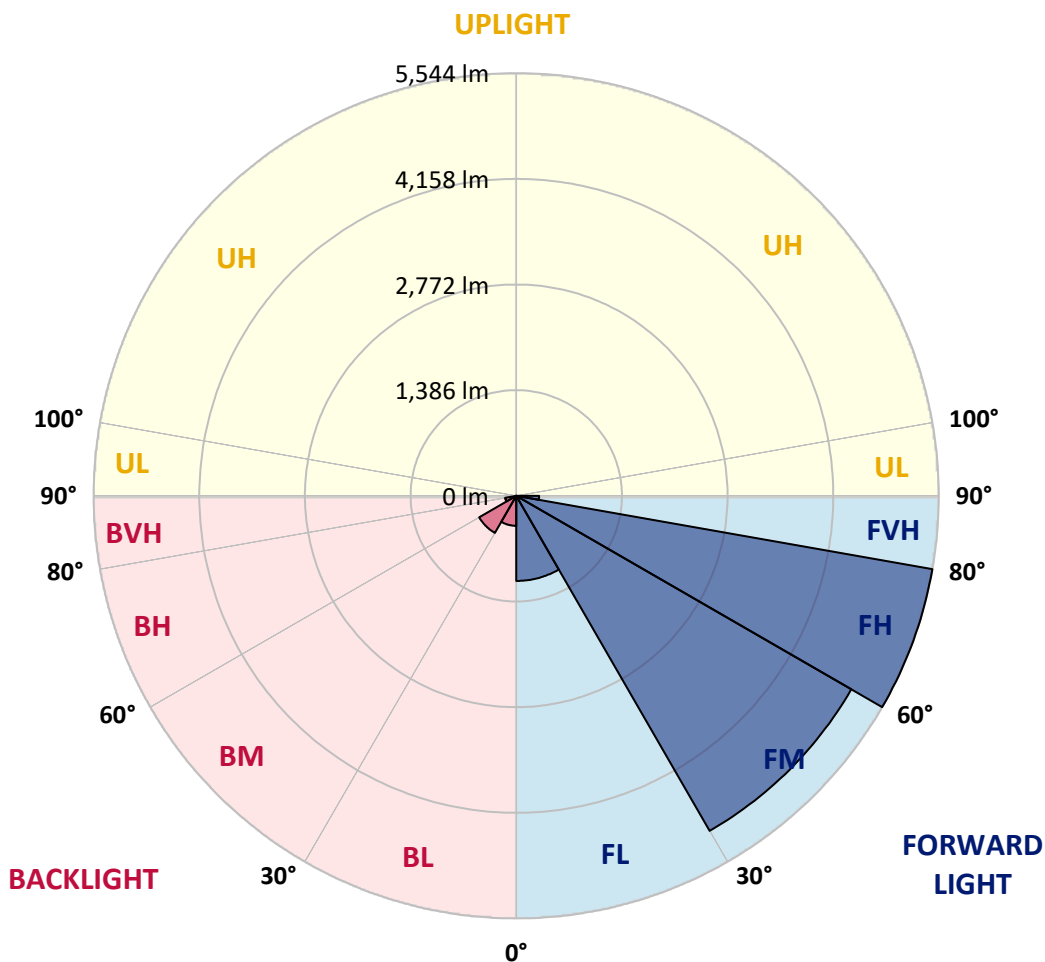


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1116.8	8.5			
FM (30°-60°)	5076.0	38.6			
FH (60°-80°)	5544.1	42.2			G3/7500
FVH (80°-90°)	299.1	2.3			G3/500
BL (0°-30°)	393.8	3.0	B1/500		
BM (30°-60°)	561.6	4.3	B1/1000		
BH (60°-80°)	147.7	1.1	B1/500		G1/500
BVH (80°-90°)	2.8	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8
2.5°	2565.2	2565.8	2559.8	2549.9	2537.4	2530.8	2519.9	2502.5	2483.9	2450.6	2414.6
5°	2617.6	2617.6	2610.0	2596.9	2576.7	2570.7	2549.9	2522.1	2483.9	2429.9	2369.3
7.5°	2612.2	2613.3	2602.9	2589.2	2569.0	2563.6	2538.5	2507.4	2459.9	2394.4	2316.9
10°	2583.8	2586.5	2578.3	2571.8	2553.2	2547.2	2523.7	2492.6	2445.2	2375.3	2286.3
12.5°	2554.9	2557.6	2560.3	2566.3	2554.9	2552.7	2534.1	2507.9	2462.6	2390.0	2289.6
15°	2536.3	2541.8	2561.4	2584.9	2587.6	2585.4	2573.4	2548.9	2503.0	2427.7	2313.1
17.5°	2536.3	2545.0	2586.0	2630.7	2646.5	2648.2	2637.8	2603.4	2548.9	2468.1	2334.9
20°	2557.6	2569.6	2633.5	2696.8	2723.0	2723.0	2702.8	2654.7	2590.9	2504.6	2349.6
22.5°	2612.2	2628.0	2708.2	2781.4	2809.2	2803.2	2775.9	2706.0	2634.5	2546.1	2368.2
25°	2719.7	2731.7	2815.2	2888.9	2905.8	2892.2	2857.8	2768.3	2690.2	2602.3	2402.0
27.5°	2858.3	2860.0	2946.2	3008.4	2998.0	2988.8	2945.6	2846.3	2770.4	2682.6	2460.4
30°	3010.6	3010.6	3086.5	3133.9	3102.3	3094.6	3051.5	2940.7	2873.1	2791.7	2543.4
32.5°	3158.0	3164.5	3226.2	3256.2	3220.7	3213.1	3171.1	3060.3	3009.5	2958.2	2672.7
35°	3300.4	3305.3	3363.7	3380.1	3346.3	3348.4	3318.4	3224.5	3205.4	3198.9	2867.6
37.5°	3438.5	3439.6	3499.1	3509.4	3492.5	3511.1	3513.8	3430.9	3466.3	3519.3	3142.1
40°	3564.6	3565.7	3624.6	3651.4	3680.3	3704.3	3725.6	3681.4	3798.7	3921.5	3469.1
42.5°	3665.5	3677.0	3751.8	3802.5	3878.9	3924.8	3982.7	3980.5	4194.4	4378.9	3864.2
45°	3754.5	3774.2	3878.4	3967.4	4098.4	4171.5	4262.1	4333.0	4639.8	4888.1	4264.3
47.5°	3871.9	3890.4	4009.4	4155.1	4329.8	4425.8	4575.9	4729.3	5129.4	5388.1	4655.1
50°	4037.2	4029.0	4146.4	4355.4	4579.7	4705.8	4919.8	5149.6	5615.1	5823.6	4884.8
52.5°	4213.5	4210.2	4297.0	4573.2	4874.5	5021.8	5304.6	5584.0	6079.6	6123.8	4990.2
55°	4431.8	4408.4	4481.5	4821.5	5224.3	5382.6	5715.5	6014.1	6449.6	6293.0	5043.1
57.5°	4660.5	4621.8	4691.6	5098.3	5618.9	5806.1	6170.7	6433.3	6695.8	6408.7	5042.6
60°	4896.9	4851.0	4934.0	5444.3	6109.1	6325.7	6664.1	6716.5	6925.6	6467.1	5005.5
62.5°	5094.4	5067.1	5190.5	5814.3	6656.5	6869.3	7036.9	6974.1	7119.3	6512.4	4918.7
65°	5303.5	5305.1	5504.3	6246.1	7238.3	7381.8	7396.0	7308.2	7281.4	6503.1	4625.0
67.5°	5586.2	5612.4	5944.8	6832.2	7804.3	7915.1	7914.0	7670.0	7399.9	6134.2	3973.9
70°	5885.3	5947.0	6452.4	7503.0	8422.1	8534.6	8476.7	7900.4	6967.6	4960.2	2812.5
72.5°	5835.1	5942.0	6734.5	7926.0	8865.9	8951.5	8575.5	7334.4	5507.0	2882.9	1197.5
75°	4501.7	4625.6	6175.1	7506.8	8400.3	8323.3	7368.2	5707.4	3009.5	804.5	269.6
77.5°	2378.0	2444.1	4079.3	5718.8	6550.1	6389.1	5190.5	3166.1	917.5	199.2	121.2
80°	1245.5	1260.8	1777.6	3244.7	4042.7	4043.8	3076.1	1390.7	378.2	102.1	81.3
82.5°	667.0	680.1	939.3	1499.3	2118.2	1920.1	1177.8	765.2	220.0	57.9	78.0
85°	160.5	163.2	532.7	685.0	832.9	594.9	349.9	642.4	59.5	33.8	63.3
87.5°	61.7	62.8	197.6	296.4	212.3	137.5	163.7	239.6	7.6	13.1	9.8
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°	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8	2416.8
2.5°	2392.8	2378.6	2343.6	2299.4	2260.1	2231.7	2189.2	2161.3	2142.8	2142.2	2135.1
5°	2332.2	2303.2	2227.9	2138.4	2057.1	1984.0	1897.7	1829.5	1778.7	1770.6	1753.1
7.5°	2267.2	2219.7	2104.0	1964.3	1827.9	1689.2	1528.2	1428.3	1342.7	1301.7	1297.3
10°	2227.4	2160.8	1996.5	1794.6	1580.6	1355.2	1144.5	998.8	893.5	863.4	841.1
12.5°	2219.2	2131.3	1913.5	1635.2	1329.6	1031.5	798.5	643.5	559.4	532.7	525.6
15°	2227.4	2117.7	1843.7	1477.5	1075.2	731.9	536.0	445.9	414.3	406.6	406.1
17.5°	2232.3	2101.3	1764.5	1302.3	828.5	522.9	410.4	384.2	379.3	378.8	379.9
20°	2231.7	2076.2	1670.1	1106.9	616.2	411.0	371.1	365.7	364.6	365.1	364.6
22.5°	2227.9	2046.7	1566.4	905.5	465.6	367.3	354.2	350.9	350.4	350.4	350.4
25°	2235.0	2023.3	1452.4	712.8	383.7	347.1	338.9	336.2	335.7	335.7	334.6
27.5°	2260.7	2010.2	1327.4	548.5	346.6	329.1	322.6	322.0	320.4	319.8	320.9
30°	2302.2	2010.2	1190.4	426.8	324.2	310.6	305.6	304.6	304.0	303.5	304.0
32.5°	2375.3	2025.4	1040.8	354.8	302.9	289.8	286.5	288.2	286.5	286.5	286.5
35°	2507.4	2071.3	884.2	309.5	280.5	269.6	266.3	268.5	267.4	267.4	266.9
37.5°	2700.0	2156.4	726.5	282.2	260.9	249.4	245.1	248.3	247.2	247.2	246.7
40°	2934.7	2280.3	576.4	261.4	241.8	229.8	226.0	227.6	224.9	224.9	226.0
42.5°	3224.5	2437.5	445.4	241.2	222.7	211.2	209.0	207.4	202.5	199.8	200.3
45°	3546.6	2601.2	347.1	221.6	204.7	195.4	192.1	187.8	179.6	174.1	174.7
47.5°	3834.2	2727.3	282.2	202.5	188.3	181.2	176.3	168.1	156.1	149.5	150.1
50°	3985.4	2746.4	240.1	183.4	173.0	165.9	158.8	146.3	132.1	125.0	124.4
52.5°	4024.1	2656.9	209.0	165.9	157.7	149.5	140.3	123.3	107.5	99.9	98.8
55°	4038.3	2520.5	181.2	149.5	141.4	132.1	120.1	101.0	86.2	78.6	78.0
57.5°	3991.4	2316.9	159.4	134.8	125.0	113.5	98.8	80.8	66.6	60.6	60.6
60°	3887.1	2041.3	142.5	119.0	108.1	95.0	79.7	62.8	49.7	44.8	44.8
62.5°	3679.2	1684.3	126.6	102.6	92.2	78.6	64.4	47.5	34.9	32.2	32.7
65°	3286.8	1277.7	110.8	87.9	78.6	64.9	50.2	33.8	23.5	23.5	24.6
67.5°	2680.4	887.5	94.4	74.8	67.7	52.9	38.2	23.5	16.4	18.6	20.7
70°	1774.4	497.8	80.8	61.7	57.9	42.0	28.4	15.8	13.1	17.5	21.3
72.5°	669.7	193.8	67.7	49.7	50.2	32.2	20.2	12.0	12.0	19.1	25.1
75°	186.7	95.0	48.6	36.6	39.3	23.5	14.7	10.4	11.5	21.8	29.5
77.5°	109.7	69.9	31.7	21.3	26.7	16.4	9.8	8.2	9.8	18.6	28.4
80°	88.4	37.1	18.6	10.9	14.7	9.3	6.5	4.9	2.7	7.1	14.7
82.5°	88.4	22.4	8.7	7.6	7.6	4.9	3.3	2.2	0.5	0.0	3.8
85°	59.5	9.3	5.5	4.9	3.8	1.6	1.1	0.5	0.0	0.0	0.0
87.5°	9.8	3.8	2.2	1.1	0.5	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)