

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: P387061

Luminaire Tested: GAW-SA2D-735-U-SL4

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387061  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2D-735-U-SL4  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14454.5 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

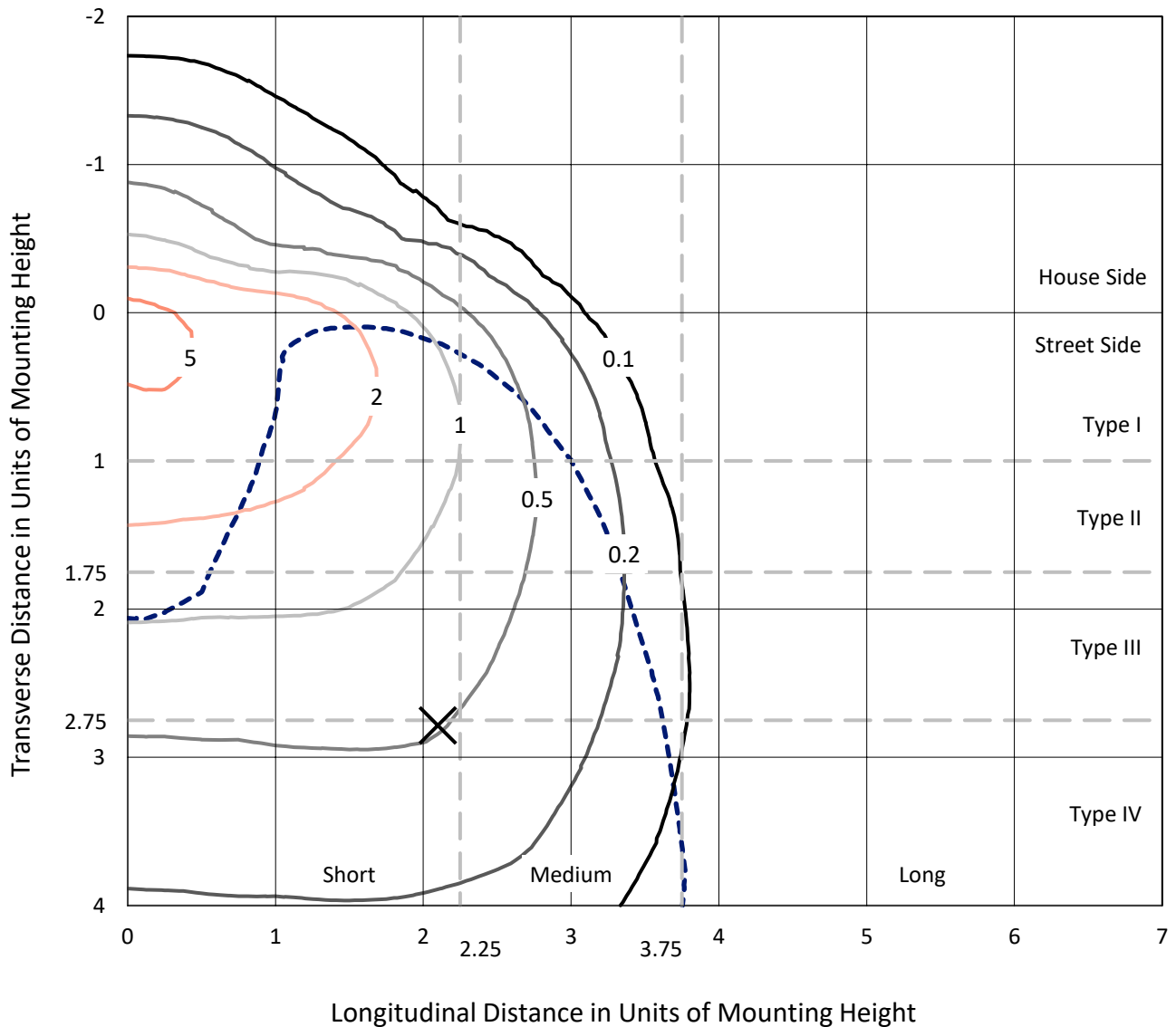
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

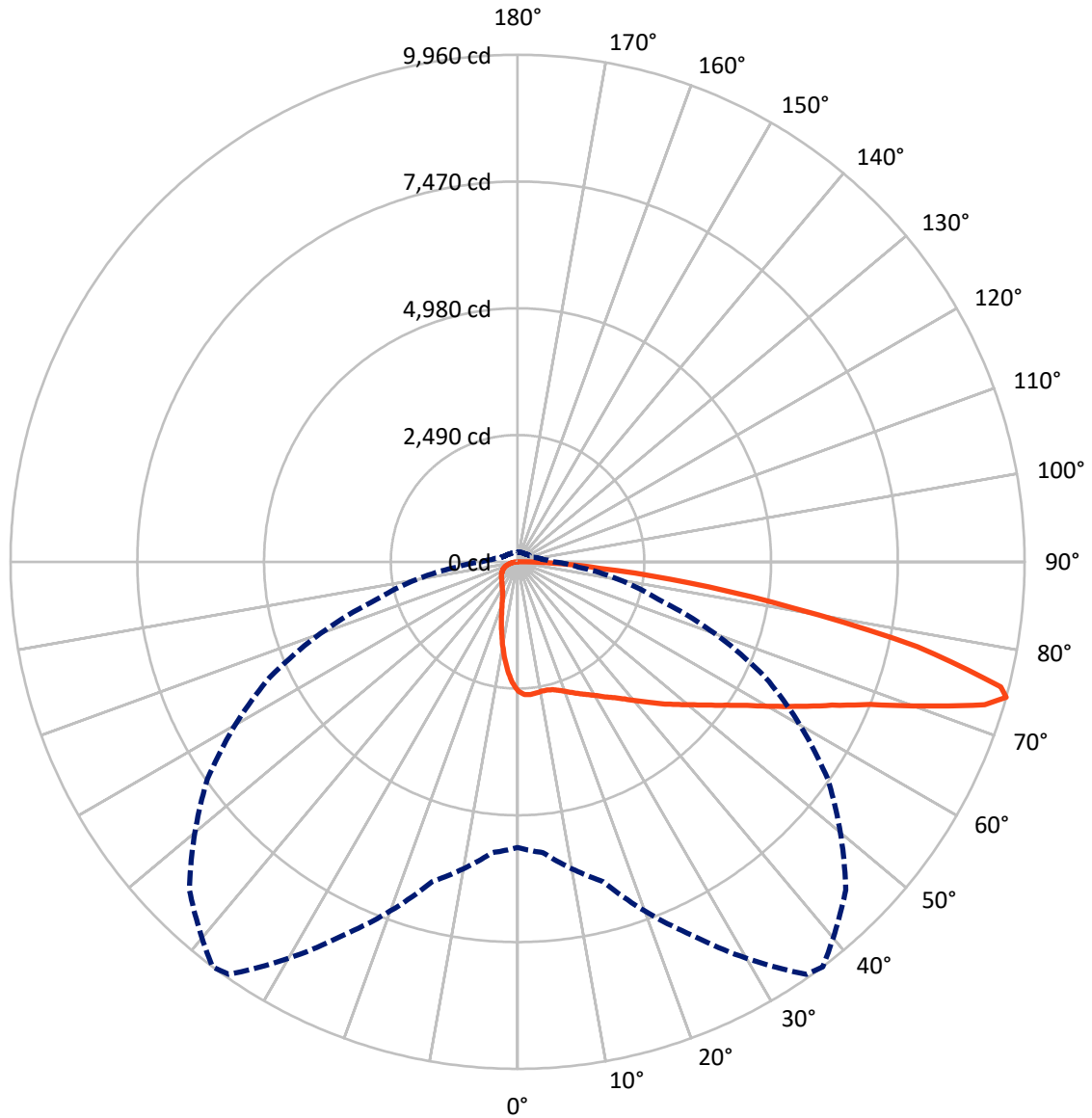
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1988.8	0.0	1988.8
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	12465.6	0.0	12465.6
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	14454.5	0.0	14454.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.3	1.6
10°-20°	574.9	4.0
20°-30°	885.8	6.1
30°-40°	1288.0	8.9
40°-50°	1895.8	13.1
50°-60°	2662.3	18.4
60°-70°	3369.6	23.3
70°-80°	2967.1	20.5
80°-90°	586.7	4.1
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°	14454.5	100.0
0°-180°	14454.5	100.0

**Coefficient of Utilization**

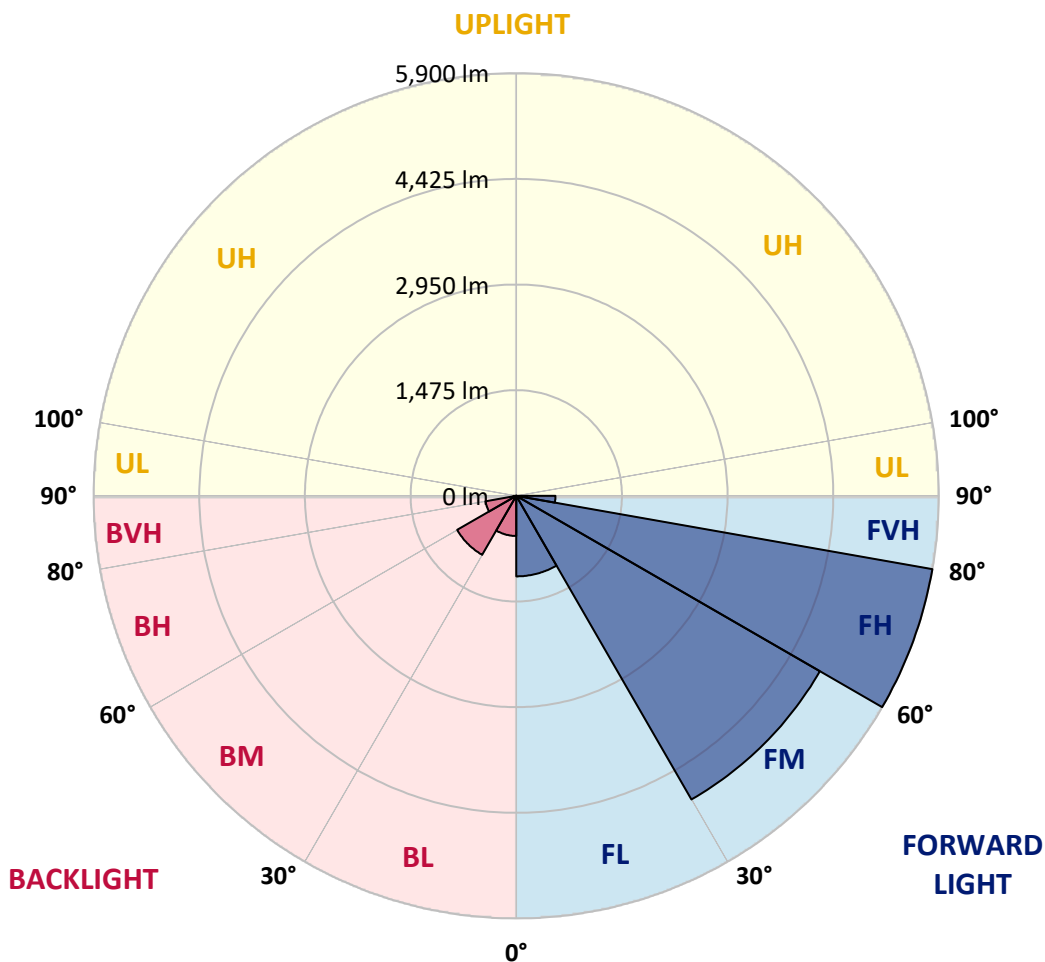


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1124.7	7.8			
FM (30°-60°)	4894.4	33.9			
FH (60°-80°)	5899.6	40.8			G3/7500
FVH (80°-90°)	546.9	3.8			G4/750
BL (0°-30°)	560.2	3.9	B2/1000		
BM (30°-60°)	951.7	6.6	B1/1000		
BH (60°-80°)	437.2	3.0	B1/500		G1/500
BVH (80°-90°)	39.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8
2.5°	2633.9	2634.4	2633.9	2629.8	2620.2	2612.0	2605.4	2595.7	2574.3	2558.1	2533.5
5°	2658.9	2655.8	2653.8	2646.1	2630.9	2621.7	2609.0	2590.6	2555.4	2522.9	2483.2
7.5°	2647.1	2643.5	2638.9	2629.8	2612.5	2604.8	2587.0	2563.1	2520.9	2478.1	2421.1
10°	2611.0	2609.9	2607.9	2605.9	2591.1	2585.0	2568.7	2543.2	2501.5	2449.6	2382.9
12.5°	2570.7	2573.3	2581.5	2592.2	2585.5	2582.5	2572.2	2555.0	2512.2	2456.2	2375.7
15°	2545.3	2552.4	2574.3	2602.3	2607.9	2606.9	2604.4	2593.2	2547.8	2485.7	2392.1
17.5°	2536.6	2548.4	2590.1	2636.4	2652.8	2656.3	2657.3	2637.9	2587.6	2521.9	2408.8
20°	2552.4	2567.2	2628.3	2691.9	2717.9	2719.9	2715.3	2681.8	2625.2	2552.9	2418.0
22.5°	2600.2	2613.5	2689.9	2761.7	2791.2	2794.2	2780.5	2729.6	2665.0	2589.6	2430.8
25°	2692.4	2708.7	2785.1	2856.9	2872.2	2872.7	2852.8	2789.7	2716.9	2641.0	2458.2
27.5°	2812.6	2828.9	2897.7	2967.9	2959.7	2955.1	2928.2	2865.1	2784.6	2711.7	2507.1
30°	2946.5	2964.4	3029.5	3079.4	3060.1	3050.9	3029.0	2947.5	2878.8	2808.5	2581.9
32.5°	3085.0	3101.3	3158.3	3192.4	3168.0	3163.9	3130.8	3056.5	3001.5	2956.2	2703.1
35°	3227.1	3238.7	3294.7	3314.1	3281.5	3280.6	3271.3	3203.1	3168.5	3189.9	2879.3
37.5°	3372.1	3375.2	3423.1	3424.1	3414.4	3418.5	3428.1	3385.4	3395.1	3461.8	3108.5
40°	3501.5	3509.7	3544.2	3554.9	3571.8	3586.0	3634.4	3606.4	3681.2	3799.4	3393.6
42.5°	3597.2	3613.0	3668.5	3696.0	3750.4	3772.9	3841.1	3867.1	4017.8	4195.0	3732.7
45°	3678.2	3702.6	3791.7	3848.2	3940.4	3979.6	4077.3	4164.4	4398.1	4624.2	4089.6
47.5°	3765.7	3796.8	3908.3	4016.3	4141.5	4185.8	4363.5	4493.9	4804.0	5056.0	4426.1
50°	3894.5	3918.5	4027.5	4197.0	4353.3	4410.4	4656.3	4843.1	5216.4	5467.4	4717.9
52.5°	4074.3	4065.1	4157.3	4395.0	4604.8	4675.1	4968.9	5214.9	5634.4	5839.6	4964.3
55°	4255.1	4239.8	4304.4	4602.3	4898.1	4971.9	5313.1	5588.1	6032.0	6174.5	5153.2
57.5°	4456.2	4427.2	4481.7	4836.0	5232.1	5320.3	5698.6	5984.7	6423.0	6445.5	5273.4
60°	4663.4	4624.2	4685.3	5125.7	5656.3	5760.1	6149.6	6371.6	6791.7	6662.4	5312.1
62.5°	4844.6	4817.1	4911.3	5449.0	6134.3	6248.4	6592.6	6783.0	7155.3	6752.5	5172.6
65°	5003.0	5007.6	5170.5	5812.6	6667.4	6789.1	7100.8	7290.2	7441.4	6699.0	4846.1
67.5°	5191.9	5217.9	5495.8	6291.2	7338.5	7471.9	7840.1	7843.1	7601.3	6385.3	4203.6
70°	5467.4	5520.8	5943.5	6955.1	8292.7	8476.0	8760.1	8167.9	7376.7	5535.1	3307.5
72.5°	5711.8	5811.6	6419.5	7714.8	9455.7	9594.6	9298.3	7980.6	6438.3	4148.1	2060.6
74°	5612.5	5736.2	6506.1	8089.0	9893.5	9960.2	9116.5	7433.7	5368.1	2872.7	1197.5
75°	5398.6	5533.0	6379.8	8085.5	9838.0	9800.8	8677.7	6809.0	4421.1	1959.3	796.8
77.5°	4356.9	4498.9	5375.7	6929.6	8066.7	8031.5	6665.9	4567.7	1936.4	642.5	404.8
80°	2533.1	2641.5	3337.0	4400.7	5439.4	5503.0	4383.9	2260.2	761.7	361.0	274.4
82.5°	1125.2	1200.1	1612.0	2246.4	3282.5	3364.5	2295.8	1184.3	470.4	219.4	165.0
85°	738.3	793.8	978.6	1069.8	1563.2	1619.1	1123.7	922.1	310.6	120.7	121.2
87.5°	531.0	584.5	727.1	634.9	717.4	679.2	611.5	853.3	124.8	68.8	40.8
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°	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8	2546.8
2.5°	2522.9	2514.8	2496.4	2461.8	2442.4	2426.2	2399.1	2383.3	2376.3	2375.7	2378.8
5°	2460.3	2441.4	2394.0	2336.0	2289.7	2247.4	2195.0	2163.4	2141.0	2127.8	2131.4
7.5°	2387.5	2357.9	2283.6	2190.9	2116.5	2034.6	1953.7	1905.3	1867.6	1839.6	1844.7
10°	2337.6	2296.8	2188.4	2054.9	1931.2	1812.1	1700.6	1633.9	1580.9	1540.2	1543.2
12.5°	2320.8	2265.7	2115.5	1937.3	1763.7	1600.8	1455.2	1352.8	1298.3	1252.0	1255.6
15°	2323.3	2249.5	2054.5	1831.4	1613.0	1407.9	1231.2	1111.5	1037.7	1005.6	1006.1
17.5°	2325.4	2230.6	1990.3	1717.9	1463.9	1227.6	1035.6	914.4	844.7	815.2	815.7
20°	2318.7	2200.1	1910.9	1587.6	1308.0	1062.1	876.3	773.4	720.4	697.6	697.6
22.5°	2310.1	2163.9	1821.3	1456.7	1154.2	918.5	762.2	683.8	653.3	637.9	637.5
25°	2314.1	2136.9	1729.6	1322.3	1012.8	803.9	686.3	634.4	614.1	604.4	603.8
27.5°	2336.0	2124.3	1645.1	1188.3	888.9	717.9	635.4	598.8	585.5	579.4	579.4
30°	2375.7	2124.3	1557.0	1074.3	786.2	654.3	596.2	571.2	562.1	558.0	558.0
32.5°	2445.0	2135.9	1471.9	961.3	704.2	604.4	563.6	546.8	539.7	537.7	537.7
35°	2564.2	2175.6	1389.0	854.4	637.9	563.6	532.5	522.9	517.8	517.3	518.8
37.5°	2731.7	2256.6	1311.1	775.5	591.2	530.6	506.6	499.0	495.9	498.4	500.5
40°	2942.5	2366.6	1240.3	704.2	555.5	504.1	482.7	477.6	476.1	479.7	482.7
42.5°	3197.0	2515.2	1182.2	652.8	528.0	481.6	462.3	456.2	454.7	458.8	462.8
45°	3472.5	2675.1	1141.6	614.6	506.6	464.9	444.5	437.9	434.8	436.8	441.4
47.5°	3723.0	2826.4	1125.2	587.6	486.2	450.6	428.7	420.6	415.5	414.5	418.0
50°	3934.3	2938.9	1132.9	571.2	470.0	434.8	413.4	404.3	396.6	392.0	394.6
52.5°	4088.1	3009.6	1140.0	564.1	457.2	417.5	396.6	388.0	377.8	370.1	370.1
55°	4199.6	3026.0	1124.3	558.6	447.5	398.7	377.8	369.7	359.5	350.8	349.8
57.5°	4243.3	2980.1	1065.6	550.4	441.0	380.8	357.9	351.8	343.2	333.0	332.5
60°	4184.2	2838.6	952.6	533.1	432.3	366.1	338.1	334.0	329.9	320.2	319.8
62.5°	3947.1	2528.0	806.5	498.0	414.9	350.3	319.8	321.7	322.3	315.6	314.7
65°	3516.8	2101.3	664.0	452.1	389.0	331.4	300.9	310.6	316.2	315.2	313.7
67.5°	2891.5	1635.4	562.6	403.8	354.9	305.5	280.5	291.8	296.3	299.9	298.9
70°	2146.1	1153.3	465.4	352.8	313.7	275.0	254.1	259.6	256.6	260.7	262.2
72.5°	1196.5	692.0	379.3	301.9	270.8	239.3	224.5	223.5	216.9	216.9	216.9
74°	717.9	507.6	333.5	270.4	244.9	215.9	203.2	198.6	192.5	193.0	192.5
75°	577.4	436.3	306.0	249.5	226.6	202.2	189.4	183.3	178.7	178.7	178.2
77.5°	364.6	331.4	246.4	198.6	181.3	166.5	157.8	149.7	149.7	149.2	148.7
80°	275.4	263.8	191.9	150.2	139.0	127.8	122.2	118.6	118.6	120.1	119.7
82.5°	188.9	198.6	134.9	104.9	99.3	91.1	90.1	90.7	89.1	87.1	86.5
85°	138.0	149.2	91.1	66.2	60.6	55.5	59.6	61.6	59.1	54.5	52.4
87.5°	53.0	97.8	48.8	27.5	25.5	21.9	25.5	26.5	28.6	22.4	22.9
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)