

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: P479986

Luminaire Tested: **IFLD-S-SA2C-727-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479986  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-727-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

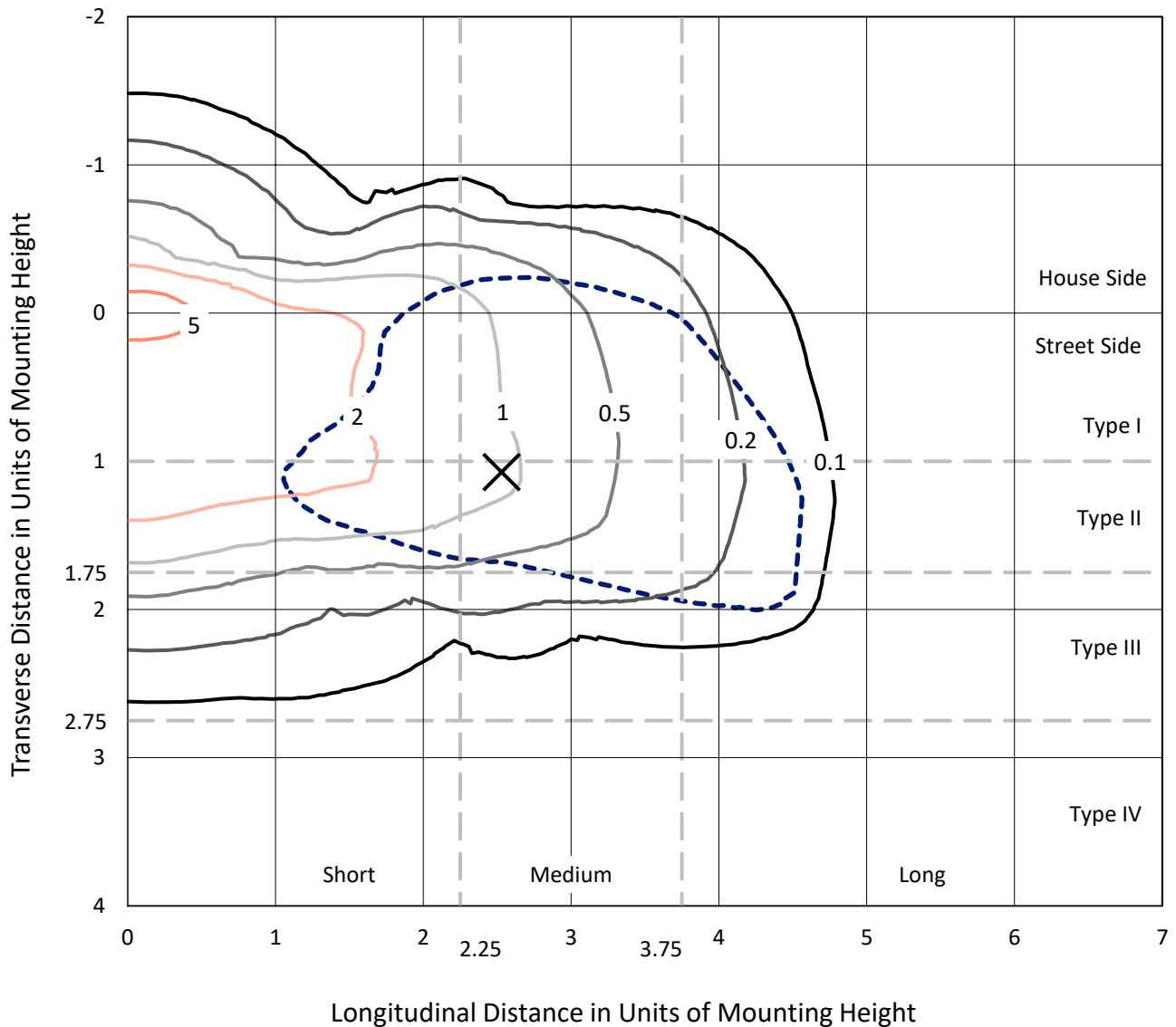
Lumens per Lamp: N/A  
Luminaire Lumens: 11851.7 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 108.2  
Input Voltage (V): 120  
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

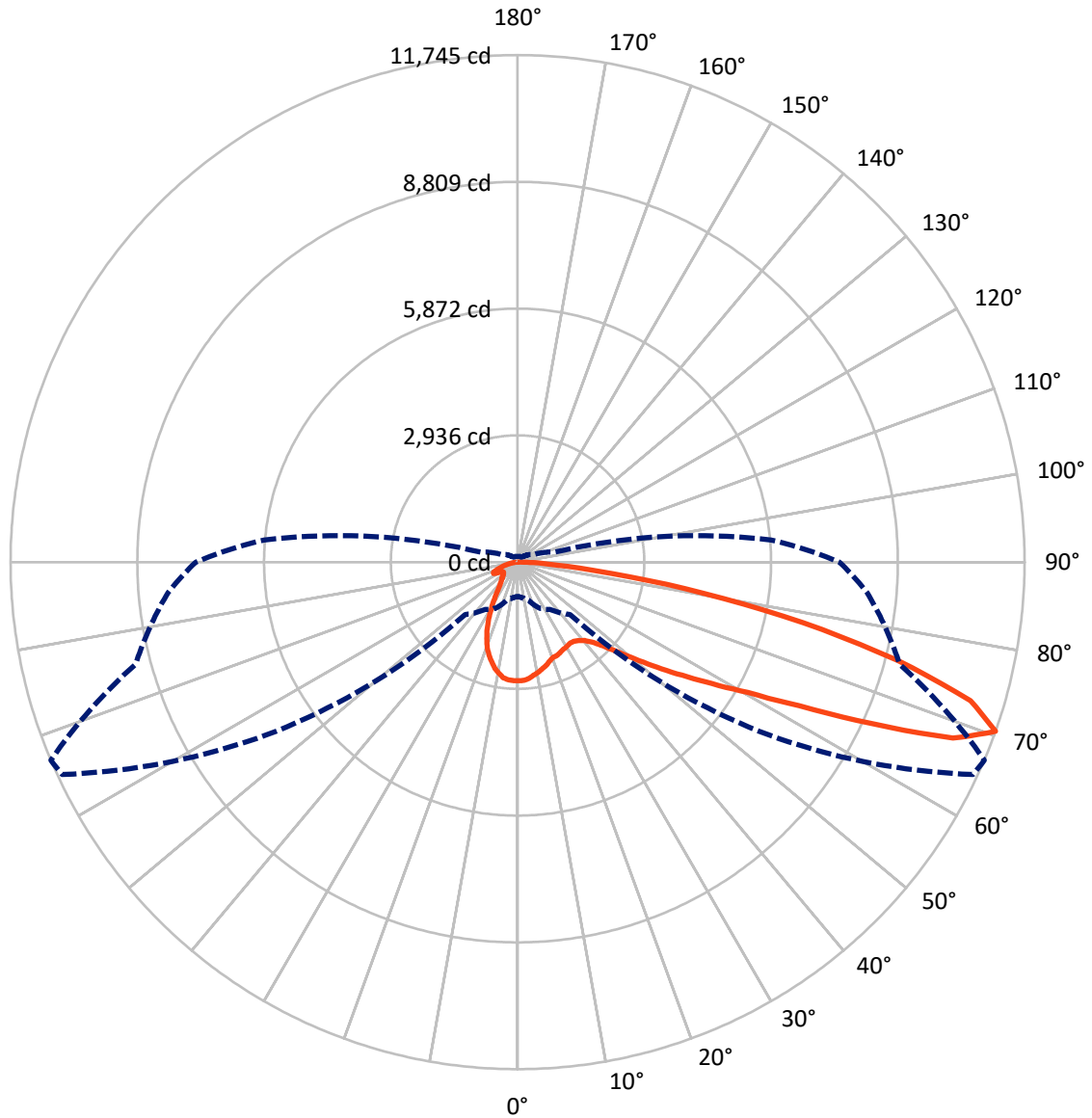
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2308.2	0.0	2308.2
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	9543.5	0.0	9543.5
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	11851.7	0.0	11851.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.4	2.0
10°-20°	573.3	4.8
20°-30°	774.2	6.5
30°-40°	1036.0	8.7
40°-50°	1523.4	12.9
50°-60°	2374.6	20.0
60°-70°	2925.1	24.7
70°-80°	2066.9	17.4
80°-90°	338.8	2.9
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°	11851.7	100.0
0°-180°	11851.7	100.0

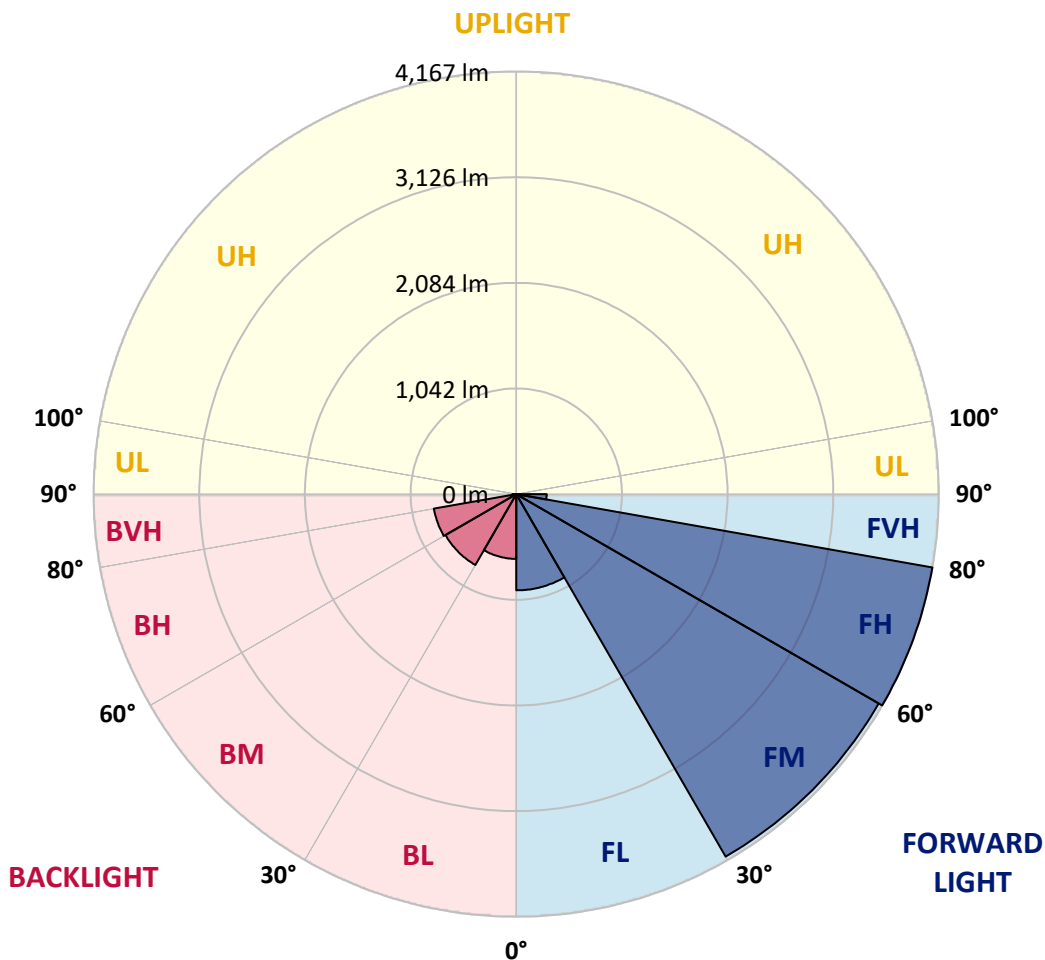


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	948.6	8.0			
FM (30°-60°)	4127.7	34.8			
FH (60°-80°)	4167.5	35.2			G2/5000
FVH (80°-90°)	299.7	2.5			G3/500
BL (0°-30°)	638.3	5.4	B2/1000		
BM (30°-60°)	806.3	6.8	B1/1000		
BH (60°-80°)	824.5	7.0	B2/1000		G2/1000
BVH (80°-90°)	39.1	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-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2743.6	2743.6	2743.6	2743.6	2743.6	2743.6	2743.6	2743.6	2743.6	2743.6	2743.6
2.5°	2554.7	2583.6	2594.0	2609.8	2650.5	2680.6	2699.0	2720.0	2744.9	2765.9	2779.1
5°	2376.2	2392.0	2416.9	2434.0	2485.1	2566.5	2621.6	2710.8	2708.2	2741.0	2790.9
7.5°	2203.0	2218.8	2230.6	2264.7	2338.2	2411.7	2512.7	2657.0	2646.5	2722.6	2800.1
10°	2095.4	2083.6	2087.6	2145.3	2203.0	2285.7	2413.0	2559.9	2598.0	2716.1	2826.3
12.5°	1994.4	1981.3	2012.8	2049.5	2120.4	2195.2	2347.4	2479.9	2537.6	2692.5	2838.1
15°	1931.4	1922.2	1961.6	1977.4	2061.3	2150.6	2258.1	2419.5	2482.5	2663.6	2819.7
17.5°	1896.0	1903.9	1918.3	1952.4	2006.2	2082.3	2200.4	2378.9	2406.4	2628.2	2815.8
20°	1902.6	1911.7	1913.1	1927.5	1964.2	2023.3	2144.0	2335.6	2353.9	2621.6	2826.3
22.5°	1955.0	1941.9	1947.2	1938.0	1948.5	1994.4	2100.7	2277.8	2348.7	2566.5	2804.0
25°	2033.8	2015.4	2012.8	1981.3	1961.6	1974.7	2092.8	2263.4	2309.3	2549.4	2802.7
27.5°	2172.9	2145.3	2145.3	2098.1	2018.0	1997.0	2070.5	2239.8	2280.5	2533.7	2772.5
30°	2306.7	2306.7	2308.0	2241.1	2151.9	2048.2	2079.7	2230.6	2256.8	2486.5	2731.8
32.5°	2469.4	2465.5	2458.9	2426.1	2288.3	2133.5	2124.3	2218.8	2231.9	2470.7	2720.0
35°	2628.2	2617.7	2668.8	2640.0	2499.6	2300.1	2170.2	2224.0	2252.9	2447.1	2683.3
37.5°	2747.6	2754.1	2860.4	2878.8	2758.1	2489.1	2300.1	2276.5	2304.1	2481.2	2683.3
40°	2902.4	2928.6	3028.4	3090.0	3016.5	2738.4	2506.1	2364.4	2384.1	2557.3	2741.0
42.5°	3105.8	3128.1	3255.4	3335.4	3314.4	3055.9	2709.5	2548.1	2532.4	2684.6	2827.6
45°	3374.8	3378.7	3507.3	3617.5	3660.8	3387.9	3032.3	2780.4	2767.2	2903.7	2986.4
47.5°	3694.9	3691.0	3771.0	3889.1	4005.9	3784.1	3403.6	3133.3	3086.1	3217.3	3250.1
50°	4004.6	3987.5	4005.9	4156.8	4381.1	4280.1	3855.0	3565.0	3517.8	3589.9	3646.4
52.5°	4175.1	4196.1	4146.3	4345.7	4780.0	4866.6	4453.3	4080.7	4040.0	4075.4	4173.8
55°	4055.7	4099.0	4066.2	4255.2	4954.5	5581.7	5227.5	4677.7	4625.2	4612.1	4773.5
57.5°	3548.0	3626.7	3633.2	3932.4	4894.2	6135.4	6316.5	5382.3	5303.6	5169.7	5336.4
60°	2723.9	2802.7	2863.0	3217.3	4377.2	6466.1	7578.8	6384.7	6124.9	5778.5	5878.3
62.5°	1909.1	1962.9	2023.3	2241.1	3374.8	6271.9	8670.4	7796.6	7317.7	6420.2	6544.8
65°	1390.8	1432.8	1494.5	1623.1	2073.1	5189.4	9176.9	9473.5	9019.5	7236.3	7220.6
67.5°	1047.1	1073.3	1154.7	1360.7	1436.8	3205.5	8652.1	11244.8	10877.4	8143.0	7763.8
70°	792.5	814.8	890.9	1173.0	1342.3	1718.9	6825.6	11639.8	11744.7	9159.9	8128.5
72.5°	545.8	570.8	656.1	977.5	1278.0	1363.3	4284.1	10574.3	10971.9	9578.4	7737.5
75°	334.6	351.6	401.5	741.3	1268.8	1333.1	2357.9	8665.2	9086.4	8850.2	6769.2
77.5°	236.2	234.9	244.1	434.3	1099.6	1341.0	1453.8	6349.3	6758.7	6522.5	4593.7
80°	171.9	173.2	182.4	259.8	746.6	1363.3	1145.5	4252.6	4374.6	3401.0	1812.0
82.5°	103.7	108.9	131.2	175.8	448.7	1230.8	1058.9	2363.1	2210.9	1091.7	498.6
85°	55.1	55.1	77.4	111.5	238.8	918.5	1019.5	1124.5	942.1	338.5	185.0
87.5°	13.1	13.1	22.3	44.6	95.8	439.6	695.4	447.4	358.2	114.2	76.1
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°	2743.6	2743.6	2743.6	2743.6	2743.6	2743.6	2743.6	2743.6	2743.6	2743.6	2743.6
2.5°	2773.8	2758.1	2777.7	2738.4	2706.9	2708.2	2659.7	2657.0	2650.5	2616.4	2628.2
5°	2805.3	2792.2	2769.9	2726.6	2657.0	2587.5	2545.5	2491.7	2469.4	2457.6	2462.8
7.5°	2835.5	2811.9	2747.6	2687.2	2579.6	2448.4	2372.3	2300.1	2208.3	2197.8	2179.4
10°	2843.4	2793.5	2710.8	2582.2	2439.2	2293.6	2120.4	1986.5	1915.7	1860.6	1839.6
12.5°	2831.5	2810.5	2651.8	2486.5	2270.0	2041.6	1839.6	1650.6	1519.4	1451.2	1432.8
15°	2830.2	2793.5	2586.2	2340.8	2064.0	1766.1	1478.8	1251.8	1114.0	1057.6	1057.6
17.5°	2831.5	2743.6	2508.8	2193.9	1821.2	1418.4	1102.2	915.9	839.8	831.9	838.4
20°	2805.3	2706.9	2427.4	2020.7	1516.8	1065.4	800.4	724.3	724.3	734.8	738.7
22.5°	2781.7	2651.8	2298.8	1806.8	1207.1	771.5	650.8	628.5	653.4	671.8	679.7
25°	2748.9	2605.9	2167.6	1585.0	918.5	621.9	565.5	570.8	594.4	627.2	624.6
27.5°	2701.6	2525.8	2011.5	1327.9	683.6	536.7	522.2	524.8	549.8	564.2	561.6
30°	2647.8	2444.5	1867.1	1072.0	541.9	492.0	490.7	497.3	501.2	509.1	507.8
32.5°	2579.6	2336.9	1713.6	833.2	488.1	467.1	461.9	457.9	461.9	460.6	456.6
35°	2531.1	2279.1	1557.5	635.1	457.9	444.8	440.9	434.3	429.1	421.2	419.9
37.5°	2517.9	2221.4	1393.5	518.3	434.3	427.7	414.6	402.8	396.3	392.3	389.7
40°	2510.1	2183.4	1233.4	455.3	414.6	408.1	392.3	376.6	370.0	366.1	367.4
42.5°	2537.6	2162.4	1070.7	423.8	397.6	385.8	368.7	350.3	349.0	346.4	350.3
45°	2634.7	2188.6	919.8	401.5	380.5	360.8	338.5	329.3	328.0	325.4	328.0
47.5°	2855.2	2254.2	791.2	387.1	362.1	345.1	321.5	308.3	307.0	305.7	305.7
50°	3159.6	2456.3	683.6	370.0	350.3	326.7	304.4	290.0	287.4	282.1	282.1
52.5°	3637.2	2796.1	619.3	360.8	329.3	309.7	286.0	270.3	263.7	258.5	258.5
55°	4175.1	3217.3	607.5	345.1	307.0	288.7	267.7	251.9	245.4	238.8	236.2
57.5°	4787.9	3775.0	691.5	334.6	291.3	267.7	244.1	229.6	224.4	217.8	215.2
60°	5358.7	4331.3	952.6	318.8	276.9	248.0	224.4	209.9	203.4	196.8	196.8
62.5°	6018.7	5020.1	1394.8	318.8	263.7	227.0	203.4	192.9	188.9	182.4	181.1
65°	6799.4	5732.6	1717.6	338.5	259.8	208.6	183.7	173.2	169.3	165.3	164.0
67.5°	7393.8	6142.0	1477.4	391.0	276.9	192.9	164.0	157.5	154.8	150.9	148.3
70°	7456.7	5892.7	890.9	422.5	293.9	177.1	147.0	140.4	140.4	136.5	133.8
72.5°	6891.2	5228.8	599.6	376.6	266.4	158.8	129.9	124.7	122.0	119.4	118.1
75°	5766.7	4434.9	473.7	300.5	204.7	131.2	112.8	107.6	103.7	102.3	99.7
77.5°	3873.4	2882.7	350.3	234.9	150.9	106.3	94.5	89.2	85.3	84.0	80.0
80°	1487.9	1098.2	225.7	170.6	106.3	84.0	74.8	69.5	66.9	63.0	60.4
82.5°	438.2	355.6	126.0	105.0	68.2	57.7	53.8	49.9	45.9	42.0	40.7
85°	181.1	162.7	77.4	55.1	42.0	34.1	31.5	27.6	23.6	21.0	18.4
87.5°	84.0	69.5	35.4	21.0	14.4	7.9	3.9	1.3	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)