

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: P480649

Luminaire Tested: **IFLD-S-SA2C-830-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480649  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-830-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

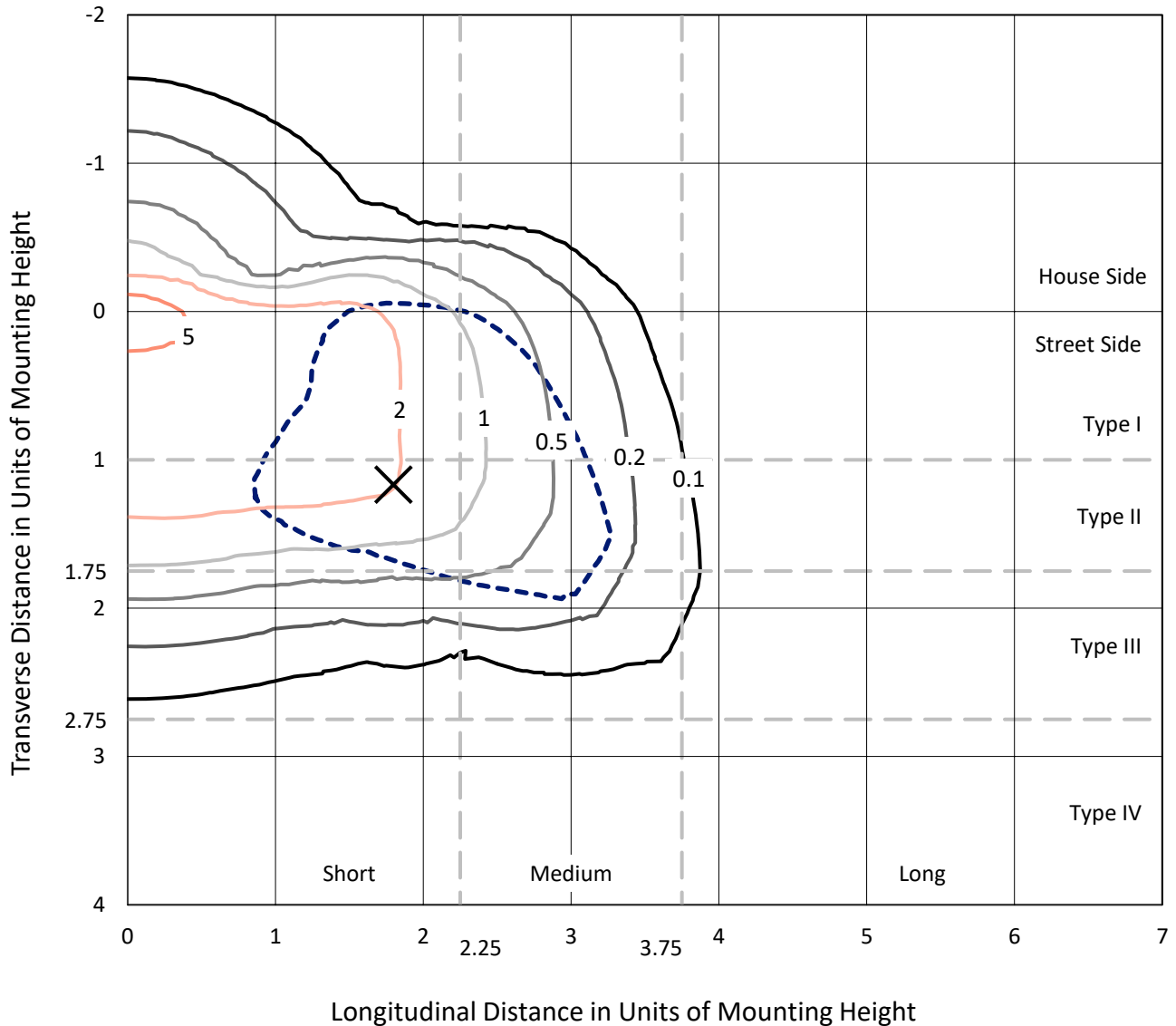
Lumens per Lamp: N/A  
Luminaire Lumens: 11144 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

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

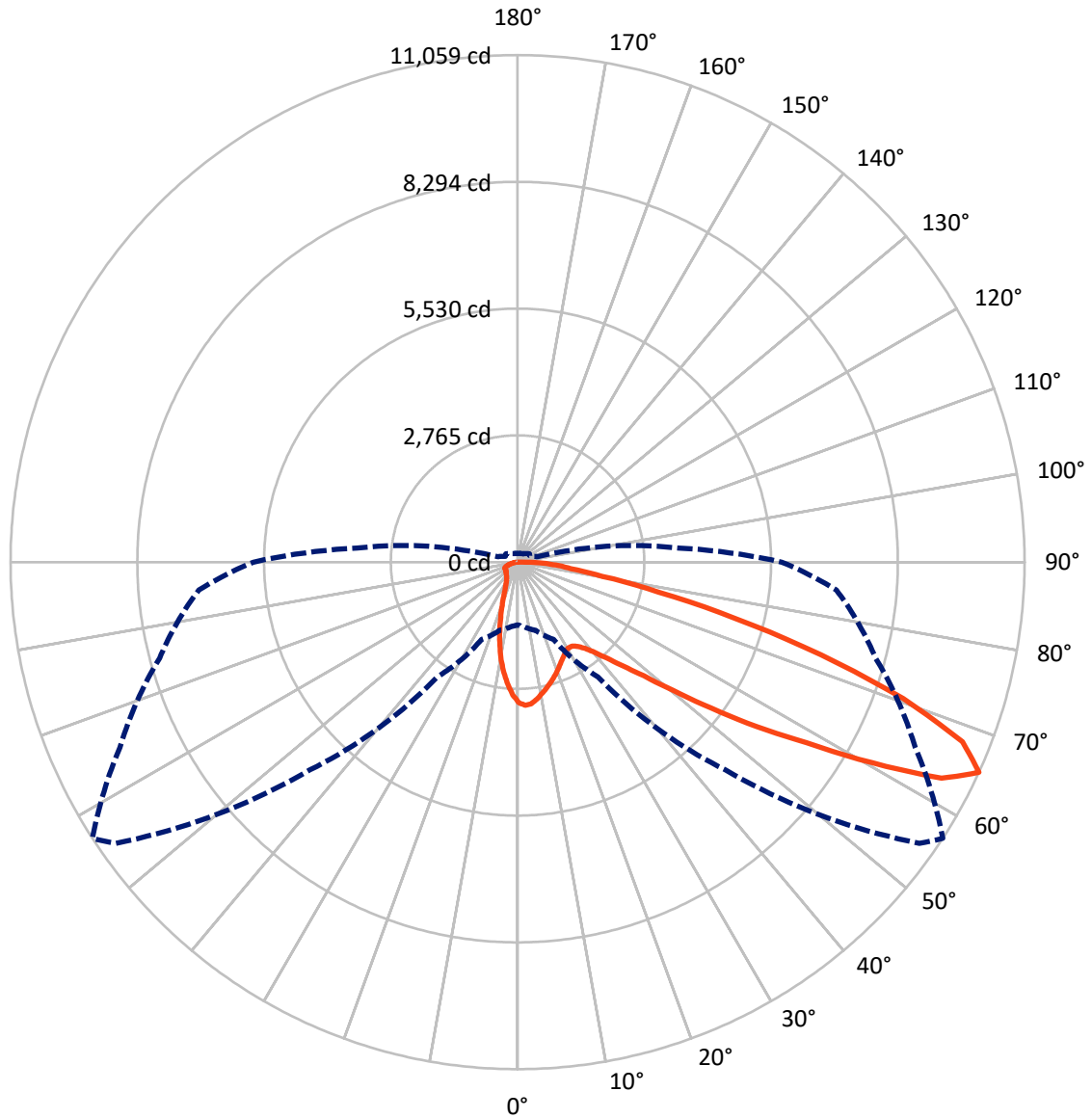
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1709.0	0.0	1709.0
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	9435.0	0.0	9435.0
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	11144.0	0.0	11144.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.6	2.3
10°-20°	552.3	5.0
20°-30°	714.1	6.4
30°-40°	960.9	8.6
40°-50°	1532.2	13.7
50°-60°	2706.2	24.3
60°-70°	2977.2	26.7
70°-80°	1245.4	11.2
80°-90°	199.0	1.8
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°	11144.0	100.0
0°-180°	11144.0	100.0

**Coefficient of Utilization**



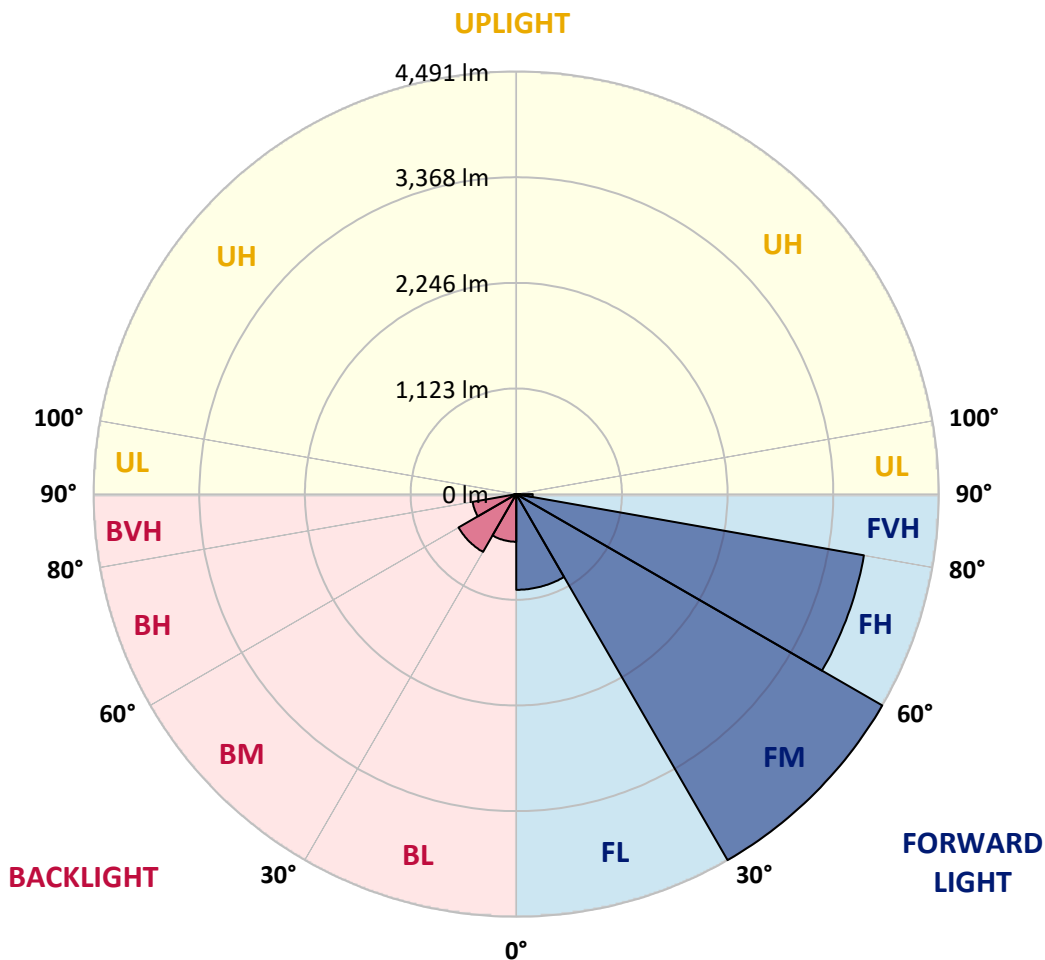
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1016.9	9.1			
FM (30°-60°)	4491.0	40.3			
FH (60°-80°)	3751.4	33.7			G2/5000
FVH (80°-90°)	175.7	1.6			G2/225
BL (0°-30°)	506.1	4.5	B2/1000		
BM (30°-60°)	708.3	6.4	B1/1000		
BH (60°-80°)	471.2	4.2	B1/500		G1/500
BVH (80°-90°)	23.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5
2.5°	3147.2	3152.2	3152.2	3162.3	3128.4	3144.7	3142.2	3127.1	3132.2	3105.8	3079.5
5°	3058.2	3054.4	3074.5	3077.0	3103.3	3110.8	3117.1	3107.1	3109.6	3051.9	3026.8
7.5°	2830.0	2828.7	2862.6	2891.4	2946.6	2998.0	3031.9	3021.8	3035.6	2999.3	2940.3
10°	2559.1	2588.0	2623.1	2651.9	2753.5	2818.7	2906.5	2915.2	2967.9	2959.1	2852.6
12.5°	2356.0	2368.6	2394.9	2477.6	2570.4	2678.3	2803.7	2814.9	2866.3	2891.4	2798.6
15°	2189.3	2200.5	2234.4	2295.8	2399.9	2527.8	2687.0	2715.9	2818.7	2827.5	2728.4
17.5°	2067.6	2076.4	2099.0	2160.4	2245.7	2409.9	2560.4	2611.8	2747.2	2789.9	2655.7
20°	2020.0	2001.2	2013.7	2052.6	2137.8	2264.5	2458.8	2504.0	2677.0	2761.0	2586.7
22.5°	1998.7	1982.4	1989.9	1987.4	2055.1	2145.4	2349.8	2397.4	2610.6	2727.2	2525.3
25°	2015.0	2015.0	2007.4	2001.2	2008.7	2067.6	2231.9	2305.9	2521.5	2698.3	2462.6
27.5°	2102.7	2068.9	2072.6	2046.3	2038.8	2038.8	2179.2	2223.1	2492.7	2682.0	2411.2
30°	2159.2	2175.5	2176.7	2137.8	2099.0	2028.8	2130.3	2173.0	2468.9	2702.1	2381.1
32.5°	2303.4	2295.8	2274.5	2267.0	2209.3	2130.3	2154.1	2183.0	2455.1	2747.2	2389.9
35°	2447.6	2443.8	2445.0	2441.3	2381.1	2264.5	2218.1	2257.0	2480.2	2826.2	2420.0
37.5°	2596.8	2606.8	2649.4	2649.4	2585.5	2458.8	2397.4	2386.1	2571.7	2955.4	2491.4
40°	2746.0	2771.1	2825.0	2910.2	2820.0	2702.1	2603.0	2585.5	2682.0	3128.4	2663.2
42.5°	2888.9	2930.3	3036.9	3163.5	3133.4	3015.6	2883.9	2863.8	2909.0	3385.4	2902.7
45°	3072.0	3107.1	3275.1	3469.5	3510.8	3406.8	3252.5	3236.2	3233.7	3761.6	3232.5
47.5°	3350.3	3388.0	3556.0	3751.6	3879.5	3895.8	3722.7	3705.2	3645.0	4269.4	3715.2
50°	3698.9	3760.4	3902.0	4130.2	4315.8	4490.1	4441.2	4389.8	4271.9	4860.0	4327.1
52.5°	3953.4	4028.7	4220.5	4512.7	4839.9	5117.0	5292.6	5292.6	5021.7	5508.2	5063.1
55°	4021.2	4066.3	4308.3	4730.8	5291.3	5992.2	6359.6	6332.0	5914.5	6190.4	5919.5
57.5°	3751.6	3810.5	4103.9	4546.5	5528.3	6811.0	7419.1	7425.4	6890.0	6982.8	6764.6
60°	3009.3	3028.1	3374.2	3966.0	5300.1	7470.6	8866.1	8889.9	7999.7	7688.7	7194.7
62.5°	2080.2	2140.4	2401.2	2920.3	4391.0	7396.6	10261.7	10379.5	8888.7	8061.1	7262.4
65°	1369.2	1405.6	1544.8	1860.7	3056.9	6411.0	10695.5	11059.1	9568.3	8082.4	6979.0
67.5°	993.1	999.3	1040.7	1203.7	1836.9	4610.5	9954.5	10467.3	9822.8	7904.4	6314.5
70°	802.5	807.5	822.5	926.6	1186.2	2885.2	8118.8	8922.5	9059.2	7060.5	5085.7
72.5°	652.0	658.3	677.1	774.9	978.0	1605.0	5937.1	6916.3	7369.0	5223.6	3380.4
75°	512.8	517.8	563.0	659.5	919.1	1102.2	3938.4	4897.6	4959.1	3053.2	1582.4
77.5°	351.1	359.9	415.0	559.2	865.2	964.2	2455.1	3137.2	2814.9	1194.9	544.2
80°	223.2	235.7	268.3	423.8	764.9	920.3	1527.2	1873.3	1232.6	408.8	262.1
82.5°	131.7	144.2	176.8	274.6	600.6	853.9	1075.8	1172.4	578.0	209.4	158.0
85°	72.7	81.5	106.6	165.5	352.3	758.6	861.4	841.3	331.0	111.6	99.1
87.5°	23.8	27.6	38.9	66.5	145.4	357.4	516.6	485.2	171.8	51.4	38.9
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°	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5	3064.5
2.5°	3061.9	3058.2	3001.8	2959.1	2886.4	2826.2	2802.4	2769.8	2768.5	2744.7	2738.5
5°	2988.0	2949.1	2862.6	2779.8	2650.7	2564.2	2485.2	2430.0	2407.4	2358.5	2347.2
7.5°	2892.7	2841.3	2708.4	2552.9	2401.2	2265.7	2142.9	2020.0	1951.0	1927.2	1900.9
10°	2793.6	2703.3	2506.5	2332.2	2120.3	1912.2	1719.1	1546.0	1452.0	1385.5	1356.7
12.5°	2714.6	2594.3	2343.5	2082.7	1803.1	1524.7	1300.3	1118.5	1011.9	961.7	939.1
15°	2625.6	2466.4	2165.4	1835.7	1487.1	1171.1	951.7	808.7	766.1	742.3	738.5
17.5°	2531.6	2347.2	1972.3	1592.4	1178.6	881.5	739.8	682.1	663.3	653.3	648.3
20°	2443.8	2240.7	1774.2	1321.6	922.8	707.2	640.7	610.6	609.4	614.4	613.1
22.5°	2319.7	2101.5	1578.6	1070.8	737.3	615.6	573.0	565.5	573.0	579.3	581.8
25°	2249.4	1987.4	1360.4	850.1	609.4	546.7	532.9	530.4	541.7	549.2	547.9
27.5°	2176.7	1869.5	1157.3	680.9	534.1	497.8	495.3	497.8	509.1	520.4	519.1
30°	2120.3	1775.5	966.7	569.3	476.5	462.7	460.2	462.7	468.9	470.2	470.2
32.5°	2073.9	1663.9	805.0	494.0	441.4	430.1	432.6	431.3	432.6	433.8	435.1
35°	2046.3	1597.4	672.1	447.6	412.5	403.7	402.5	398.7	400.0	401.2	400.0
37.5°	2105.2	1564.8	566.7	415.0	392.5	384.9	382.4	379.9	376.2	376.2	376.2
40°	2194.3	1547.3	502.8	393.7	377.4	368.6	361.1	358.6	358.6	359.9	361.1
42.5°	2371.1	1576.1	458.9	377.4	358.6	348.6	341.1	342.3	346.1	349.8	347.3
45°	2626.9	1663.9	438.9	364.9	347.3	333.5	328.5	327.3	331.0	337.3	342.3
47.5°	2961.6	1800.6	431.3	353.6	339.8	321.0	314.7	318.5	323.5	332.3	328.5
50°	3509.6	2107.8	437.6	343.6	328.5	314.7	307.2	303.4	307.2	313.5	316.0
52.5°	4225.5	2665.7	461.4	338.5	321.0	309.7	297.2	290.9	294.7	299.7	299.7
55°	5081.9	3428.1	527.9	332.3	308.5	302.2	288.4	275.9	278.4	278.4	277.1
57.5°	5836.8	4003.6	606.9	323.5	300.9	292.2	274.6	259.6	257.0	258.3	259.6
60°	6175.3	4156.6	644.5	321.0	300.9	279.6	255.8	240.7	237.0	234.5	234.5
62.5°	6116.4	3892.0	568.0	309.7	308.5	269.6	238.2	221.9	216.9	211.9	213.2
65°	5760.3	3514.6	447.6	294.7	309.7	263.3	220.7	204.4	195.6	189.3	188.1
67.5°	5109.5	3000.5	354.8	283.4	297.2	252.0	205.6	186.8	179.3	173.0	170.5
70°	3997.3	2352.3	308.5	268.3	267.1	224.4	188.1	171.8	160.5	153.0	153.0
72.5°	2591.7	1487.1	264.6	238.2	230.7	188.1	163.0	153.0	144.2	137.9	137.9
75°	1173.6	690.9	213.2	199.4	188.1	150.5	137.9	132.9	125.4	119.1	119.1
77.5°	421.3	294.7	159.2	156.7	140.4	116.6	111.6	107.8	102.8	96.5	96.5
80°	235.7	186.8	119.1	114.1	97.8	86.5	80.2	80.2	77.7	74.0	72.7
82.5°	149.2	121.6	87.8	76.5	63.9	57.7	55.2	53.9	52.7	47.6	46.4
85°	94.0	82.8	57.7	45.1	37.6	28.8	27.6	26.3	23.8	21.3	21.3
87.5°	42.6	47.6	22.6	13.8	10.0	6.3	3.8	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)