

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: P480611

Luminaire Tested: **IFLD-S-SA2D-827-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480611
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-827-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

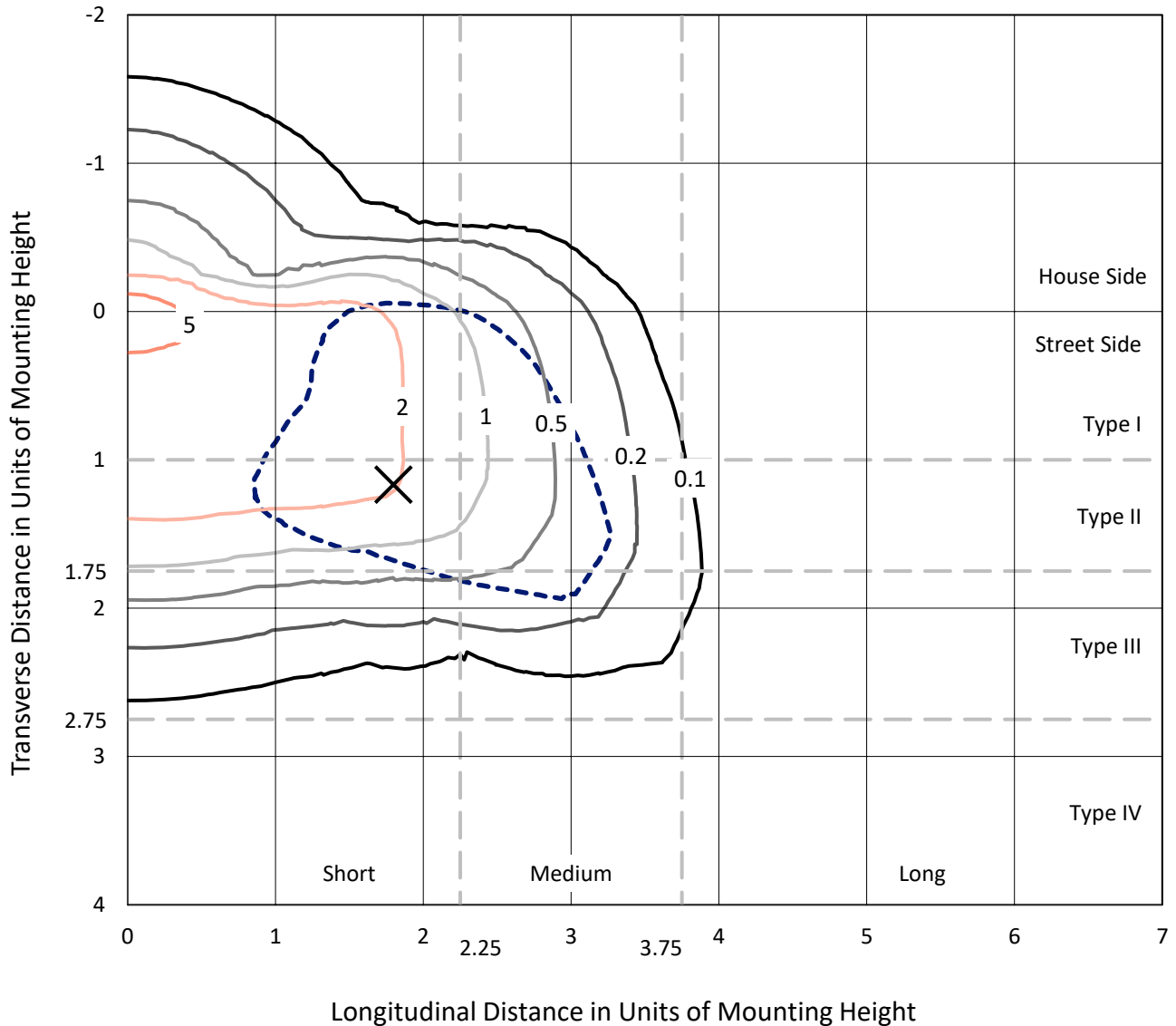
Lumens per Lamp: N/A
Luminaire Lumens: 11344 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9
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

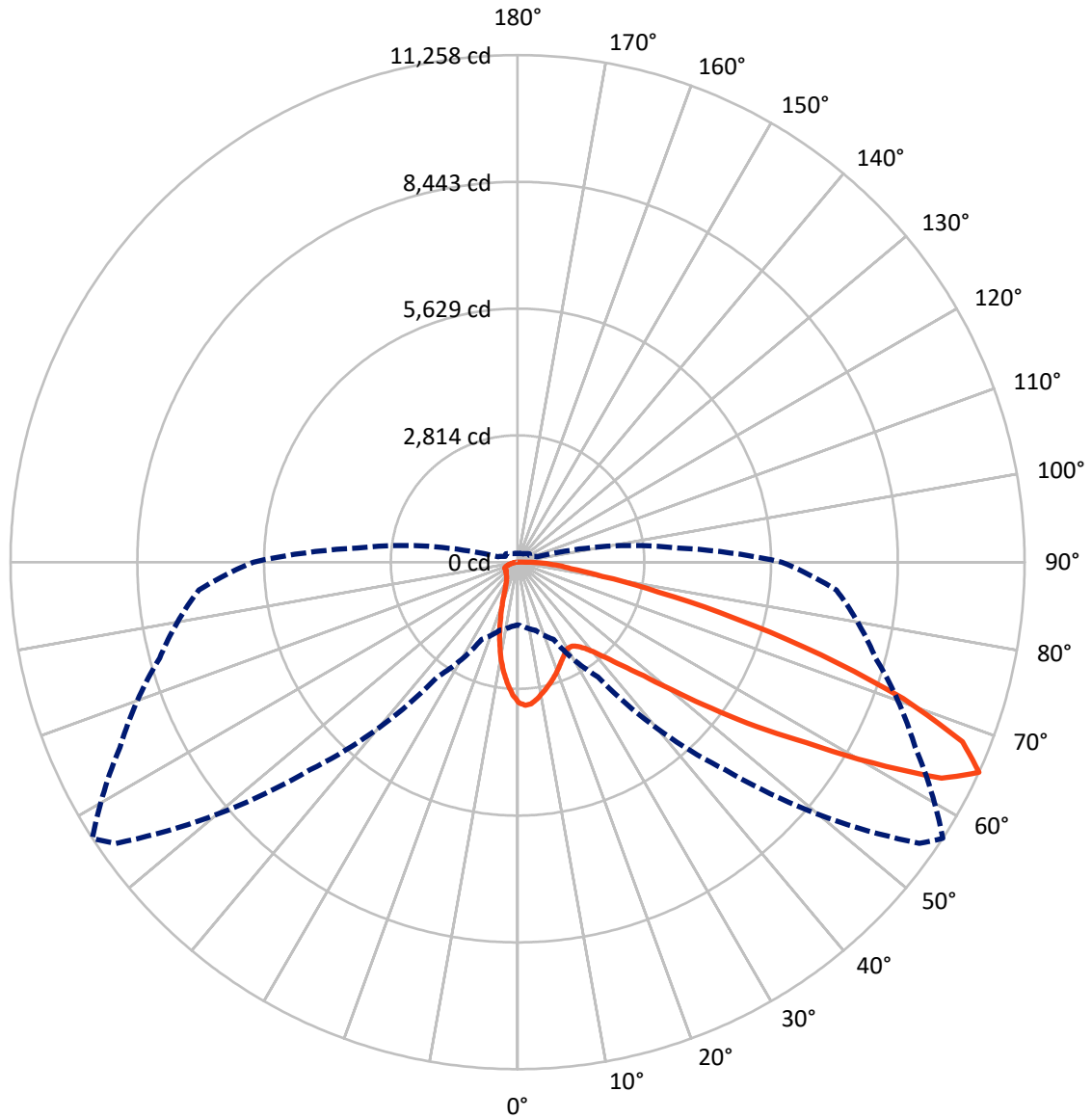
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 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
House Side	Lumens	1739.7	0.0	1739.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	9604.3	0.0	9604.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	11344.0	0.0	11344.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.2	2.3
10°-20°	562.2	5.0
20°-30°	726.9	6.4
30°-40°	978.1	8.6
40°-50°	1559.7	13.7
50°-60°	2754.8	24.3
60°-70°	3030.7	26.7
70°-80°	1267.8	11.2
80°-90°	202.6	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°	11344.0	100.0
0°-180°	11344.0	100.0

Coefficient of Utilization



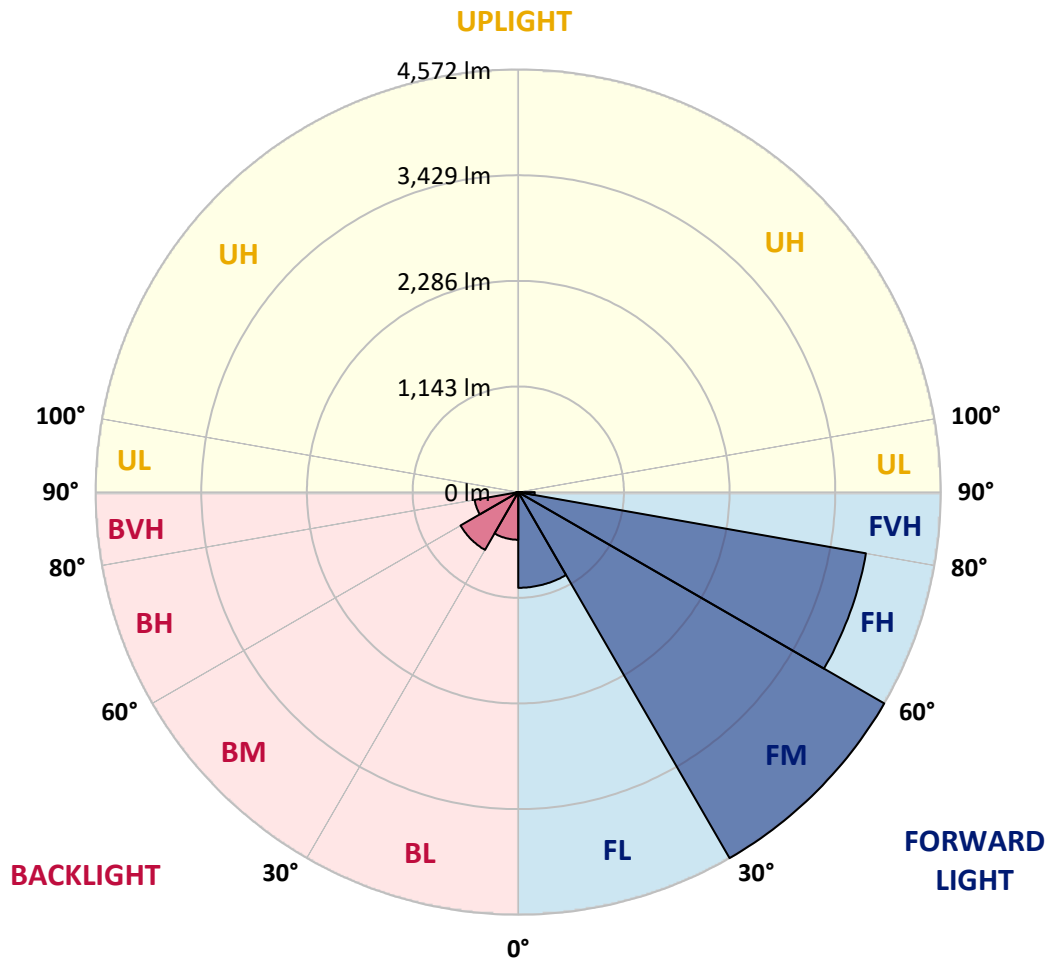
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1035.1	9.1			
FM (30°-60°)	4571.6	40.3			
FH (60°-80°)	3818.7	33.7			G2/5000
FVH (80°-90°)	178.9	1.6			G2/225
BL (0°-30°)	515.2	4.5	B2/1000		
BM (30°-60°)	721.0	6.4	B1/1000		
BH (60°-80°)	479.7	4.2	B1/500		G1/500
BVH (80°-90°)	23.8	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°	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4
2.5°	3203.7	3208.8	3208.8	3219.0	3184.5	3201.1	3198.6	3183.3	3188.4	3161.6	3134.8
5°	3113.1	3109.2	3129.7	3132.2	3159.0	3166.7	3173.0	3162.8	3165.4	3106.7	3081.2
7.5°	2880.8	2879.5	2913.9	2943.3	2999.5	3051.8	3086.3	3076.0	3090.1	3053.1	2993.1
10°	2605.1	2634.4	2670.2	2699.5	2802.9	2869.3	2958.6	2967.6	3021.2	3012.2	2903.7
12.5°	2398.3	2411.1	2437.9	2522.1	2616.6	2726.3	2854.0	2865.4	2917.8	2943.3	2848.9
15°	2228.5	2240.0	2274.5	2337.0	2443.0	2573.2	2735.3	2764.6	2869.3	2878.2	2777.4
17.5°	2104.7	2113.7	2136.6	2199.2	2286.0	2453.2	2606.3	2658.7	2796.5	2839.9	2703.3
20°	2056.2	2037.1	2049.8	2089.4	2176.2	2305.1	2503.0	2548.9	2725.0	2810.6	2633.1
22.5°	2034.5	2017.9	2025.6	2023.0	2092.0	2183.9	2391.9	2440.4	2657.4	2776.1	2570.6
25°	2051.1	2051.1	2043.5	2037.1	2044.7	2104.7	2271.9	2347.2	2566.8	2746.7	2506.8
27.5°	2140.5	2106.0	2109.8	2083.0	2075.4	2075.4	2218.3	2263.0	2537.4	2730.1	2454.5
30°	2197.9	2214.5	2215.8	2176.2	2136.6	2065.2	2168.5	2211.9	2513.2	2750.6	2423.8
32.5°	2344.7	2337.0	2315.3	2307.7	2249.0	2168.5	2192.8	2222.2	2499.1	2796.5	2432.8
35°	2491.5	2487.6	2488.9	2485.1	2423.8	2305.1	2257.9	2297.5	2524.7	2876.9	2463.4
37.5°	2643.4	2653.6	2697.0	2697.0	2631.9	2503.0	2440.4	2428.9	2617.8	3008.4	2536.1
40°	2795.2	2820.8	2875.7	2962.4	2870.5	2750.6	2649.7	2631.9	2730.1	3184.5	2711.0
42.5°	2940.7	2982.9	3091.4	3220.3	3189.6	3069.7	2935.6	2915.2	2961.2	3446.2	2954.8
45°	3127.1	3162.8	3333.9	3531.7	3573.8	3467.9	3310.9	3294.3	3291.8	3829.1	3290.5
47.5°	3410.5	3448.7	3619.8	3818.9	3949.1	3965.7	3789.5	3771.7	3710.4	4346.0	3781.9
50°	3765.3	3827.8	3972.1	4204.4	4393.3	4570.7	4520.9	4468.6	4348.6	4947.2	4404.7
52.5°	4024.4	4101.0	4296.3	4593.6	4926.8	5208.9	5387.5	5387.5	5111.8	5607.1	5154.0
55°	4093.3	4139.3	4385.6	4815.7	5386.3	6099.8	6473.7	6445.7	6020.6	6301.4	6025.7
57.5°	3818.9	3878.9	4177.5	4628.1	5627.5	6933.2	7552.3	7558.6	7013.6	7108.1	6886.0
60°	3063.3	3082.4	3434.7	4037.1	5395.2	7604.6	9025.2	9049.4	8143.2	7826.7	7323.8
62.5°	2117.5	2178.8	2444.2	2972.7	4469.8	7529.3	10445.8	10565.8	9048.2	8205.8	7392.7
65°	1393.8	1430.8	1572.5	1894.1	3111.8	6526.1	10887.4	11257.6	9740.0	8227.5	7104.3
67.5°	1010.9	1017.3	1059.4	1225.3	1869.9	4693.2	10133.1	10655.1	9999.1	8046.2	6427.8
70°	816.9	822.0	837.3	943.2	1207.4	2936.9	8264.5	9082.6	9221.8	7187.2	5176.9
72.5°	663.7	670.1	689.2	788.8	995.6	1633.7	6043.6	7040.4	7501.2	5317.3	3441.1
75°	522.0	527.1	573.1	671.4	935.6	1121.9	4009.1	4985.5	5048.0	3108.0	1610.8
77.5°	357.4	366.3	422.5	569.3	880.7	981.5	2499.1	3193.5	2865.4	1216.4	553.9
80°	227.2	240.0	273.1	431.4	778.6	936.9	1554.6	1906.9	1254.7	416.1	266.8
82.5°	134.0	146.8	180.0	279.5	611.4	869.2	1095.1	1193.4	588.4	213.2	160.8
85°	74.0	83.0	108.5	168.5	358.7	772.2	876.9	856.4	337.0	113.6	100.8
87.5°	24.3	28.1	39.6	67.6	148.1	363.8	525.9	494.0	174.9	52.3	39.6
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°	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4
2.5°	3116.9	3113.1	3055.6	3012.2	2938.2	2876.9	2852.7	2819.5	2818.2	2794.0	2787.6
5°	3041.6	3002.0	2913.9	2829.7	2698.2	2610.2	2529.8	2473.6	2450.6	2400.8	2389.4
7.5°	2944.6	2892.2	2757.0	2598.7	2444.2	2306.4	2181.3	2056.2	1986.0	1961.8	1935.0
10°	2843.7	2751.8	2551.5	2374.0	2158.3	1946.5	1749.9	1573.8	1478.0	1410.4	1381.0
12.5°	2763.3	2640.8	2385.5	2120.0	1835.4	1552.1	1323.6	1138.5	1030.0	979.0	956.0
15°	2672.7	2510.6	2204.3	1868.6	1513.8	1192.1	968.8	823.3	779.9	755.6	751.8
17.5°	2577.0	2389.4	2007.7	1621.0	1199.8	897.3	753.1	694.3	675.2	665.0	659.9
20°	2487.6	2280.9	1806.1	1345.3	939.4	719.9	652.2	621.6	620.3	625.4	624.1
22.5°	2361.3	2139.2	1606.9	1090.0	750.5	626.7	583.3	575.6	583.3	589.7	592.2
25°	2289.8	2023.0	1384.9	865.4	620.3	556.5	542.5	539.9	551.4	559.0	557.8
27.5°	2215.8	1903.1	1178.1	693.1	543.7	506.7	504.2	506.7	518.2	529.7	528.4
30°	2158.3	1807.3	984.1	579.5	485.0	471.0	468.4	471.0	477.4	478.6	478.6
32.5°	2111.1	1693.7	819.4	502.9	449.3	437.8	440.3	439.1	440.3	441.6	442.9
35°	2083.0	1626.1	684.1	455.7	419.9	411.0	409.7	405.9	407.2	408.4	407.2
37.5°	2143.0	1592.9	576.9	422.5	399.5	391.8	389.3	386.7	382.9	382.9	382.9
40°	2233.6	1575.0	511.8	400.8	384.2	375.3	367.6	365.0	365.0	366.3	367.6
42.5°	2413.6	1604.4	467.2	384.2	365.0	354.8	347.2	348.4	352.3	356.1	353.6
45°	2674.0	1693.7	446.7	371.4	353.6	339.5	334.4	333.1	337.0	343.3	348.4
47.5°	3014.8	1832.9	439.1	359.9	345.9	326.7	320.4	324.2	329.3	338.2	334.4
50°	3572.6	2145.6	445.5	349.7	334.4	320.4	312.7	308.9	312.7	319.1	321.6
52.5°	4301.4	2713.6	469.7	344.6	326.7	315.3	302.5	296.1	299.9	305.1	305.1
55°	5173.1	3489.6	537.4	338.2	314.0	307.6	293.6	280.8	283.4	283.4	282.1
57.5°	5941.5	4075.4	617.8	329.3	306.3	297.4	279.5	264.2	261.7	262.9	264.2
60°	6286.1	4231.2	656.1	326.7	306.3	284.6	260.4	245.1	241.2	238.7	238.7
62.5°	6226.1	3961.8	578.2	315.3	314.0	274.4	242.5	225.9	220.8	215.7	217.0
65°	5863.6	3577.7	455.7	299.9	315.3	268.0	224.6	208.0	199.1	192.7	191.5
67.5°	5201.2	3054.3	361.2	288.5	302.5	256.5	209.3	190.2	182.5	176.1	173.6
70°	4069.1	2394.5	314.0	273.1	271.9	228.5	191.5	174.9	163.4	155.7	155.7
72.5°	2638.3	1513.8	269.3	242.5	234.9	191.5	165.9	155.7	146.8	140.4	140.4
75°	1194.7	703.3	217.0	202.9	191.5	153.2	140.4	135.3	127.6	121.3	121.3
77.5°	428.9	299.9	162.1	159.5	143.0	118.7	113.6	109.8	104.7	98.3	98.3
80°	240.0	190.2	121.3	116.1	99.6	88.1	81.7	81.7	79.1	75.3	74.0
82.5°	151.9	123.8	89.3	77.9	65.1	58.7	56.2	54.9	53.6	48.5	47.2
85°	95.7	84.2	58.7	45.9	38.3	29.4	28.1	26.8	24.3	21.7	21.7
87.5°	43.4	48.5	23.0	14.0	10.2	6.4	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)