

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: P480377

Luminaire Tested: **IFLD-S-SA2D-727-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480377  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-727-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

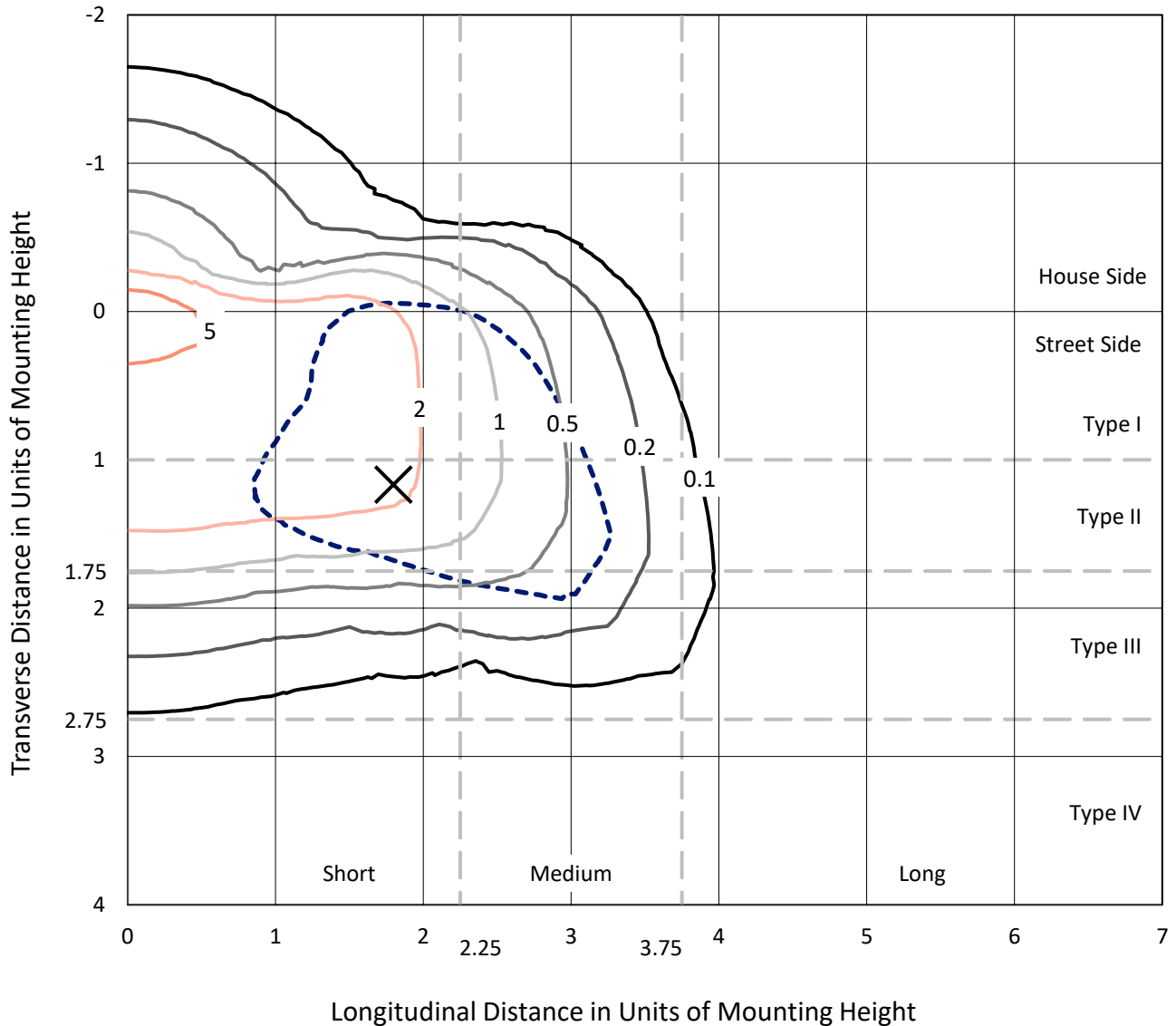
Lumens per Lamp: N/A  
Luminaire Lumens: 12905.7 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

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

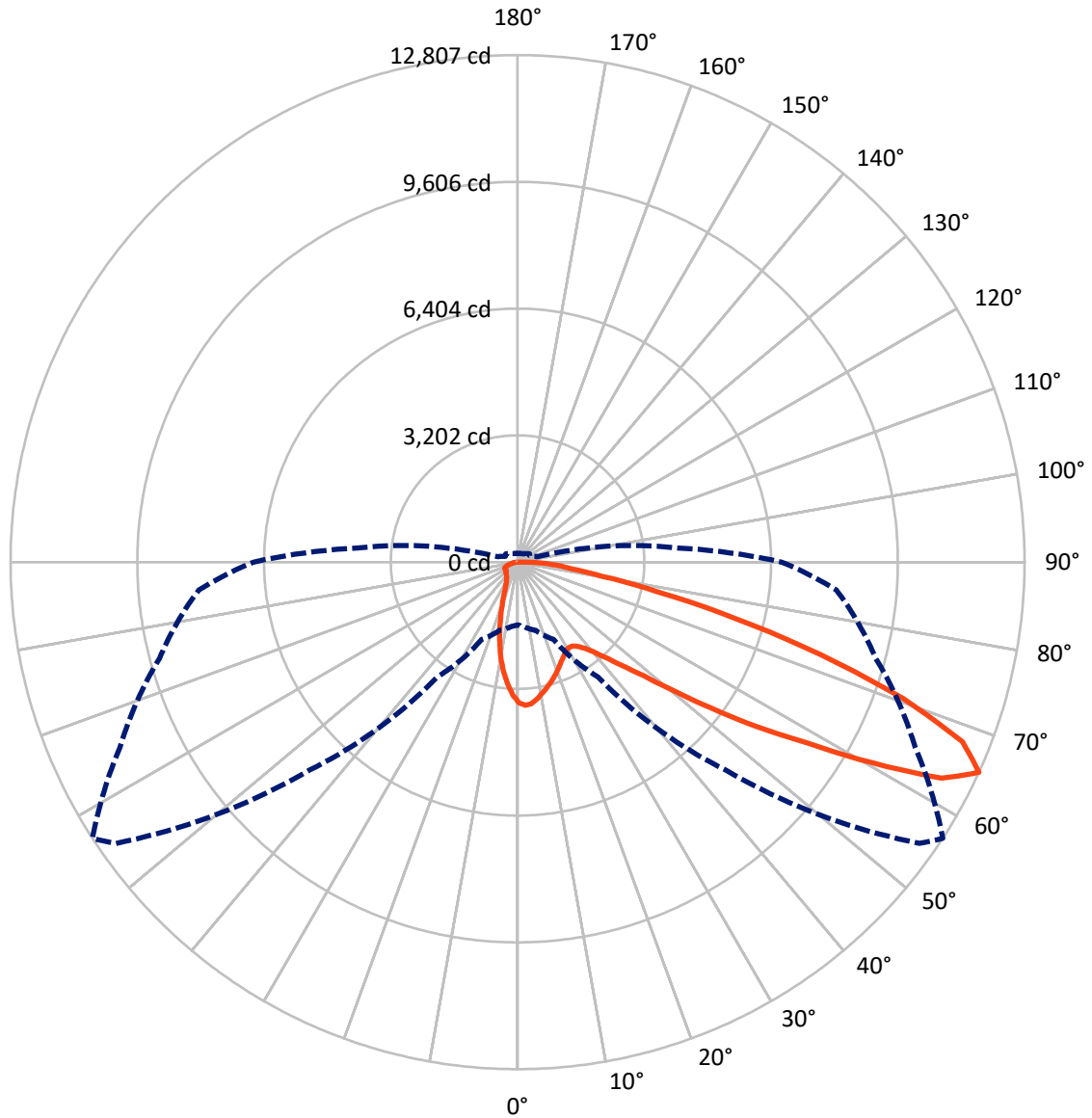
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.9 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	1979.2	0.0	1979.2
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	10926.5	0.0	10926.5
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	12905.7	0.0	12905.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.2	2.3
10°-20°	639.6	5.0
20°-30°	827.0	6.4
30°-40°	1112.8	8.6
40°-50°	1774.4	13.7
50°-60°	3134.1	24.3
60°-70°	3447.9	26.7
70°-80°	1442.3	11.2
80°-90°	230.5	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°	12905.7	100.0
0°-180°	12905.7	100.0

**Coefficient of Utilization**

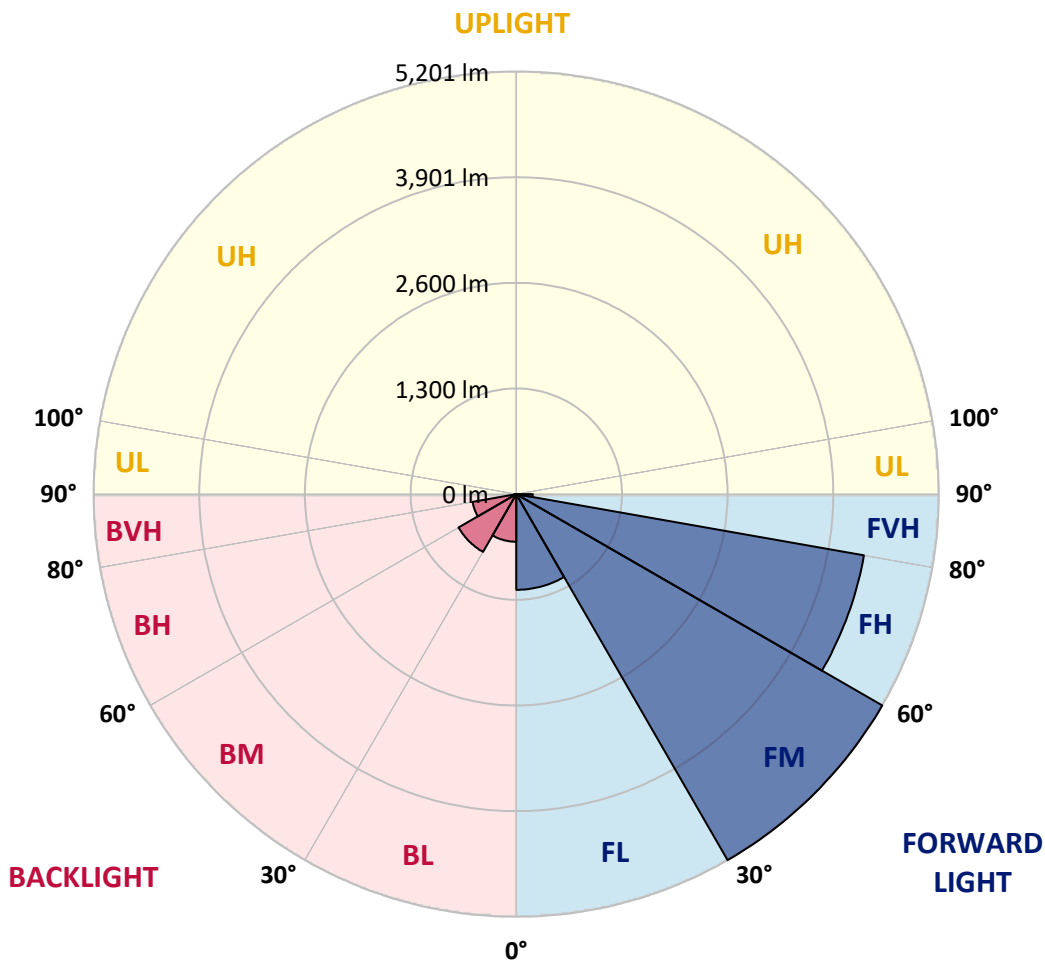


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1177.6	9.1			
FM (30°-60°)	5201.0	40.3			
FH (60°-80°)	4344.4	33.7			G2/5000
FVH (80°-90°)	203.5	1.6			G2/225
BL (0°-30°)	586.1	4.5	B2/1000		
BM (30°-60°)	820.3	6.4	B1/1000		
BH (60°-80°)	545.7	4.2	B2/1000		G2/1000
BVH (80°-90°)	27.0	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°	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9
2.5°	3644.7	3650.5	3650.5	3662.2	3622.9	3641.8	3638.9	3621.5	3627.3	3596.8	3566.3
5°	3541.6	3537.3	3560.5	3563.4	3593.9	3602.6	3609.9	3598.3	3601.2	3534.4	3505.3
7.5°	3277.3	3275.9	3315.1	3348.5	3412.4	3471.9	3511.1	3499.5	3515.5	3473.4	3405.1
10°	2963.7	2997.1	3037.8	3071.2	3188.8	3264.3	3365.9	3376.1	3437.1	3426.9	3303.5
12.5°	2728.5	2743.0	2773.5	2869.3	2976.8	3101.6	3246.9	3259.9	3319.5	3348.5	3241.0
15°	2535.3	2548.4	2587.6	2658.8	2779.3	2927.4	3111.8	3145.2	3264.3	3274.4	3159.7
17.5°	2394.5	2404.6	2430.8	2501.9	2600.7	2790.9	2965.2	3024.7	3181.5	3230.9	3075.5
20°	2339.3	2317.5	2332.0	2377.1	2475.8	2622.5	2847.5	2899.8	3100.2	3197.5	2995.6
22.5°	2314.6	2295.7	2304.5	2301.6	2380.0	2484.5	2721.2	2776.4	3023.2	3158.3	2924.5
25°	2333.5	2333.5	2324.8	2317.5	2326.2	2394.5	2584.7	2670.4	2920.1	3124.9	2851.9
27.5°	2435.1	2395.9	2400.3	2369.8	2361.1	2361.1	2523.7	2574.5	2886.7	3106.0	2792.4
30°	2500.5	2519.4	2520.8	2475.8	2430.8	2349.5	2467.1	2516.5	2859.2	3129.2	2757.5
32.5°	2667.5	2658.8	2634.1	2625.4	2558.6	2467.1	2494.7	2528.1	2843.2	3181.5	2767.7
35°	2834.5	2830.1	2831.6	2827.2	2757.5	2622.5	2568.7	2613.7	2872.2	3273.0	2802.5
37.5°	3007.3	3018.9	3068.3	3068.3	2994.2	2847.5	2776.4	2763.3	2978.2	3422.6	2885.3
40°	3180.1	3209.1	3271.5	3370.3	3265.7	3129.2	3014.5	2994.2	3106.0	3622.9	3084.2
42.5°	3345.6	3393.5	3516.9	3663.6	3628.8	3492.3	3339.8	3316.6	3368.8	3920.6	3361.6
45°	3557.6	3598.3	3792.8	4017.9	4065.8	3945.3	3766.7	3747.8	3744.9	4356.2	3743.5
47.5°	3880.0	3923.5	4118.1	4344.6	4492.7	4511.6	4311.2	4290.9	4221.2	4944.3	4302.5
50°	4283.6	4354.8	4518.9	4783.2	4998.1	5199.9	5143.3	5083.7	4947.2	5628.3	5011.1
52.5°	4578.4	4665.5	4887.7	5226.0	5605.0	5925.9	6129.2	6129.2	5815.6	6379.0	5863.5
55°	4656.8	4709.1	4989.4	5478.7	6127.8	6939.5	7365.0	7333.0	6849.5	7168.9	6855.3
57.5°	4344.6	4412.9	4752.7	5265.3	6402.2	7887.7	8592.0	8599.2	7979.2	8086.6	7834.0
60°	3485.0	3506.8	3907.6	4592.9	6138.0	8651.5	10267.7	10295.3	9264.3	8904.2	8332.0
62.5°	2409.0	2478.7	2780.7	3381.9	5085.2	8565.8	11883.8	12020.3	10293.8	9335.4	8410.5
65°	1585.7	1627.8	1789.0	2154.9	3540.2	7424.5	12386.3	12807.4	11080.8	9360.1	8082.3
67.5°	1150.0	1157.3	1205.2	1394.0	2127.3	5339.3	11528.1	12122.0	11375.6	9153.9	7312.7
70°	929.3	935.1	952.6	1073.1	1373.7	3341.2	9402.2	10333.0	10491.3	8176.7	5889.6
72.5°	755.1	762.3	784.1	897.4	1132.6	1858.7	6875.6	8009.7	8533.9	6049.4	3914.8
75°	593.9	599.7	652.0	763.8	1064.4	1276.4	4561.0	5671.8	5743.0	3535.8	1832.5
77.5°	406.6	416.7	480.6	647.6	1001.9	1116.7	2843.2	3633.1	3259.9	1383.8	630.2
80°	258.5	273.0	310.7	490.8	885.8	1065.8	1768.6	2169.4	1427.4	473.4	303.5
82.5°	152.5	167.0	204.7	318.0	695.5	988.9	1245.9	1357.7	669.4	242.5	183.0
85°	84.2	94.4	123.4	191.7	408.0	878.5	997.6	974.3	383.3	129.2	114.7
87.5°	27.6	31.9	45.0	77.0	168.4	413.8	598.3	562.0	198.9	59.5	45.0
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°	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9	3548.9
2.5°	3546.0	3541.6	3476.3	3426.9	3342.7	3273.0	3245.4	3207.6	3206.2	3178.6	3171.3
5°	3460.3	3415.3	3315.1	3219.3	3069.7	2969.5	2878.0	2814.1	2788.0	2731.4	2718.3
7.5°	3350.0	3290.4	3136.5	2956.4	2780.7	2623.9	2481.6	2339.3	2259.4	2231.9	2201.4
10°	3235.2	3130.7	2902.7	2700.9	2455.5	2214.4	1990.8	1790.4	1681.5	1604.6	1571.2
12.5°	3143.8	3004.4	2713.9	2411.9	2088.1	1765.7	1505.8	1295.3	1171.8	1113.7	1087.6
15°	3040.7	2856.2	2507.7	2125.8	1722.2	1356.2	1102.1	936.6	887.2	859.6	855.3
17.5°	2931.8	2718.3	2284.1	1844.1	1365.0	1020.8	856.7	789.9	768.2	756.5	750.7
20°	2830.1	2594.9	2054.7	1530.5	1068.7	819.0	742.0	707.2	705.7	711.5	710.1
22.5°	2686.4	2433.7	1828.2	1240.1	853.8	713.0	663.6	654.9	663.6	670.9	673.8
25°	2605.0	2301.6	1575.5	984.5	705.7	633.1	617.1	614.2	627.3	636.0	634.6
27.5°	2520.8	2165.1	1340.3	788.5	618.6	576.5	573.6	576.5	589.5	602.6	601.2
30°	2455.5	2056.1	1119.6	659.2	551.8	535.8	532.9	535.8	543.1	544.5	544.5
32.5°	2401.7	1926.9	932.2	572.1	511.1	498.1	501.0	499.5	501.0	502.4	503.9
35°	2369.8	1850.0	778.3	518.4	477.7	467.6	466.1	461.8	463.2	464.7	463.2
37.5°	2438.0	1812.2	656.3	480.6	454.5	445.8	442.9	440.0	435.6	435.6	435.6
40°	2541.1	1791.9	582.3	456.0	437.1	426.9	418.2	415.3	415.3	416.7	418.2
42.5°	2745.9	1825.3	531.5	437.1	415.3	403.7	395.0	396.4	400.8	405.1	402.2
45°	3042.1	1926.9	508.2	422.6	402.2	386.3	380.4	379.0	383.3	390.6	396.4
47.5°	3429.8	2085.2	499.5	409.5	393.5	371.7	364.5	368.8	374.6	384.8	380.4
50°	4064.4	2441.0	506.8	397.9	380.4	364.5	355.8	351.4	355.8	363.0	365.9
52.5°	4893.5	3087.1	534.4	392.1	371.7	358.7	344.1	336.9	341.2	347.0	347.0
55°	5885.3	3970.0	611.3	384.8	357.2	350.0	334.0	319.5	322.4	322.4	320.9
57.5°	6759.4	4636.5	702.8	374.6	348.5	338.3	318.0	300.6	297.7	299.1	300.6
60°	7151.5	4813.7	746.4	371.7	348.5	323.8	296.2	278.8	274.4	271.5	271.5
62.5°	7083.3	4507.3	657.8	358.7	357.2	312.2	275.9	257.0	251.2	245.4	246.9
65°	6670.9	4070.2	518.4	341.2	358.7	304.9	255.6	236.7	226.5	219.3	217.8
67.5°	5917.2	3474.8	410.9	328.2	344.1	291.9	238.1	216.4	207.6	200.4	197.5
70°	4629.2	2724.1	357.2	310.7	309.3	259.9	217.8	198.9	185.9	177.2	177.2
72.5°	3001.5	1722.2	306.4	275.9	267.2	217.8	188.8	177.2	167.0	159.7	159.7
75°	1359.1	800.1	246.9	230.9	217.8	174.2	159.7	153.9	145.2	137.9	137.9
77.5°	487.9	341.2	184.4	181.5	162.6	135.0	129.2	124.9	119.1	111.8	111.8
80°	273.0	216.4	137.9	132.1	113.3	100.2	92.9	92.9	90.0	85.7	84.2
82.5°	172.8	140.9	101.6	88.6	74.1	66.8	63.9	62.4	61.0	55.2	53.7
85°	108.9	95.8	66.8	52.3	43.6	33.4	31.9	30.5	27.6	24.7	24.7
87.5°	49.4	55.2	26.1	16.0	11.6	7.3	4.4	1.5	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)