

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: P480532

Luminaire Tested: **IFLD-S-SA2C-750-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480532  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-750-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

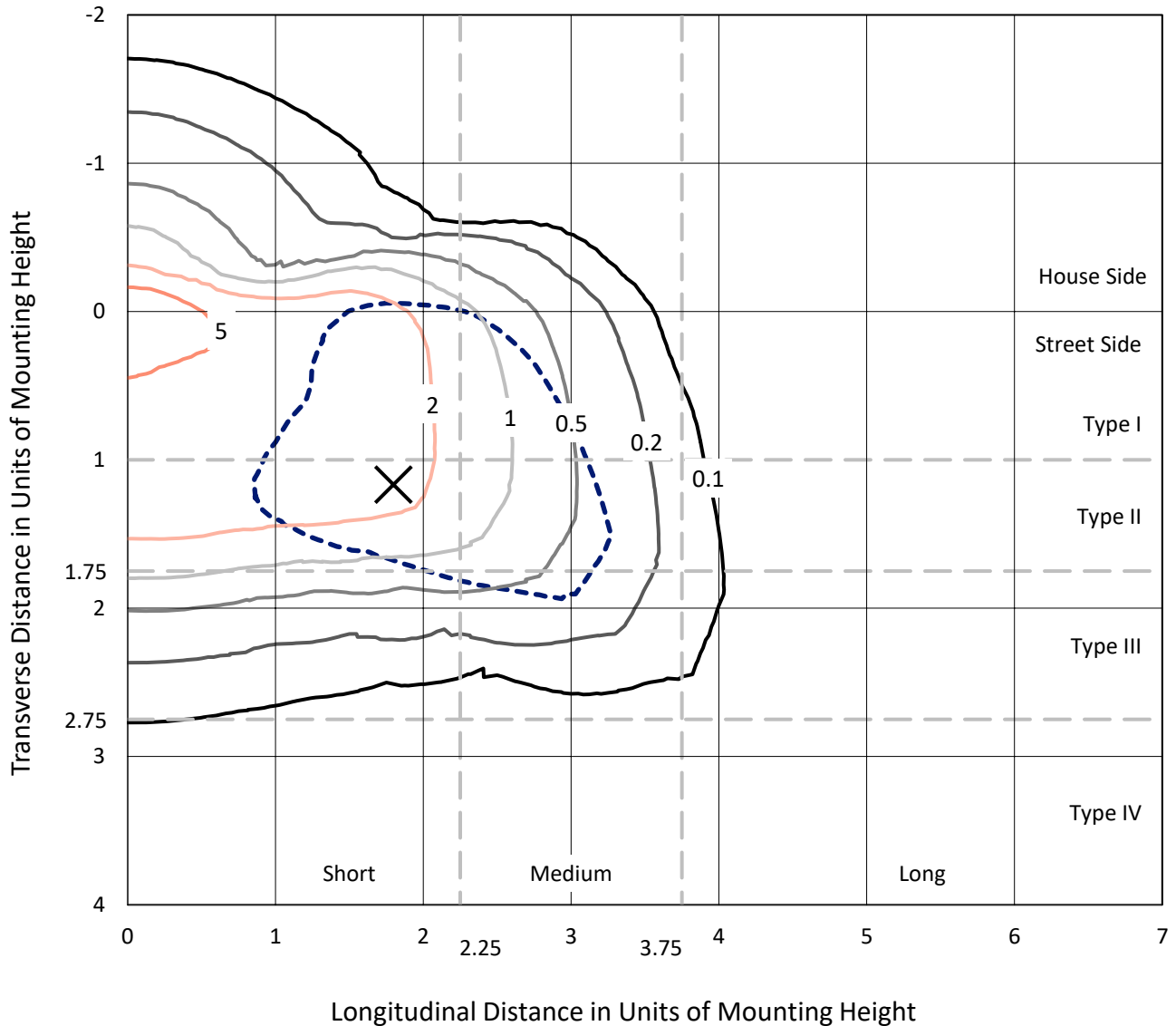
Lumens per Lamp: N/A  
Luminaire Lumens: 14345.9 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

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

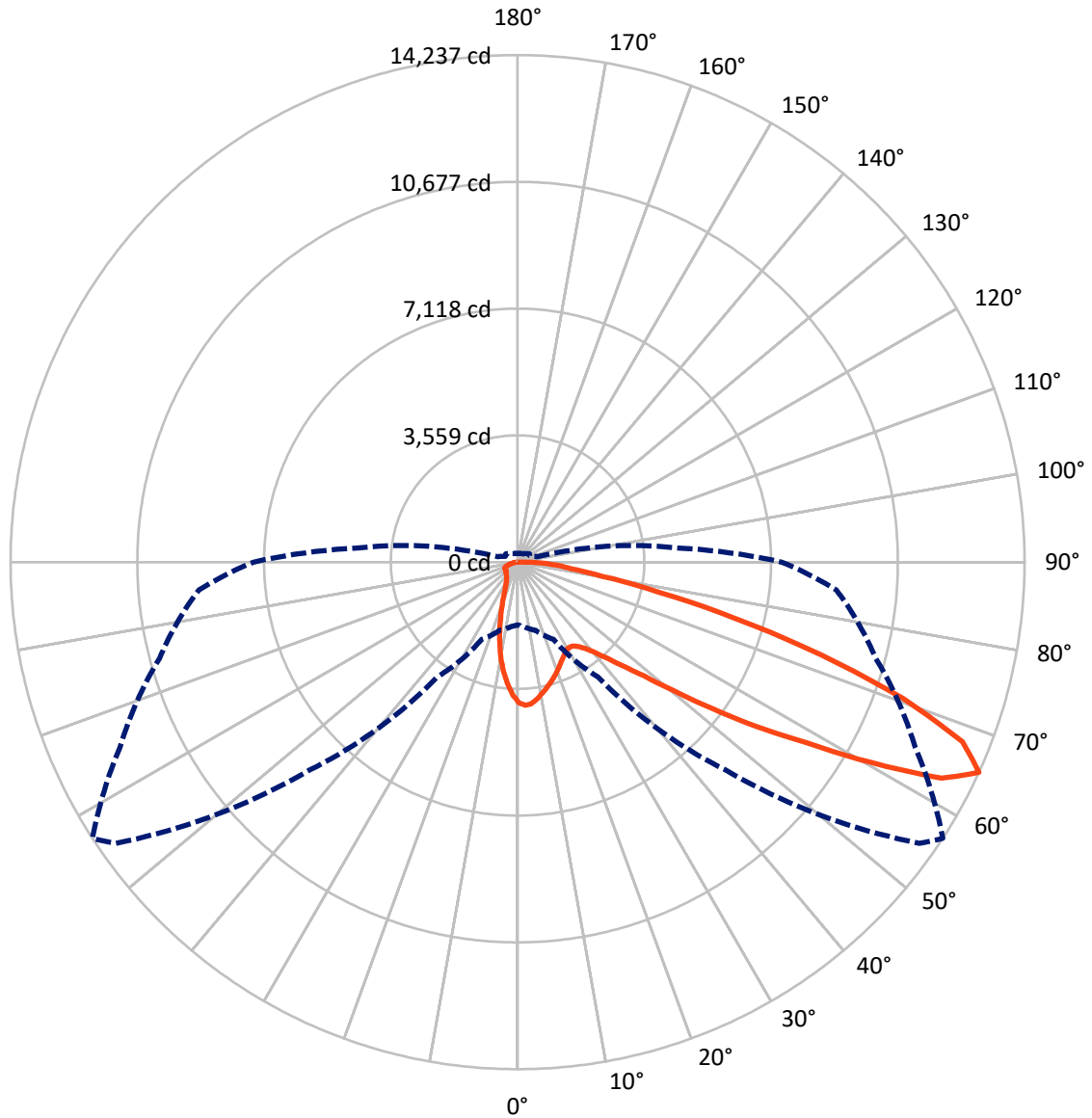
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.9 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	2200.1	0.0	2200.1
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	12145.8	0.0	12145.8
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	14345.9	0.0	14345.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.4	2.3
10°-20°	711.0	5.0
20°-30°	919.2	6.4
30°-40°	1237.0	8.6
40°-50°	1972.4	13.7
50°-60°	3483.8	24.3
60°-70°	3832.6	26.7
70°-80°	1603.3	11.2
80°-90°	256.2	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°	14345.9	100.0
0°-180°	14345.9	100.0

**Coefficient of Utilization**



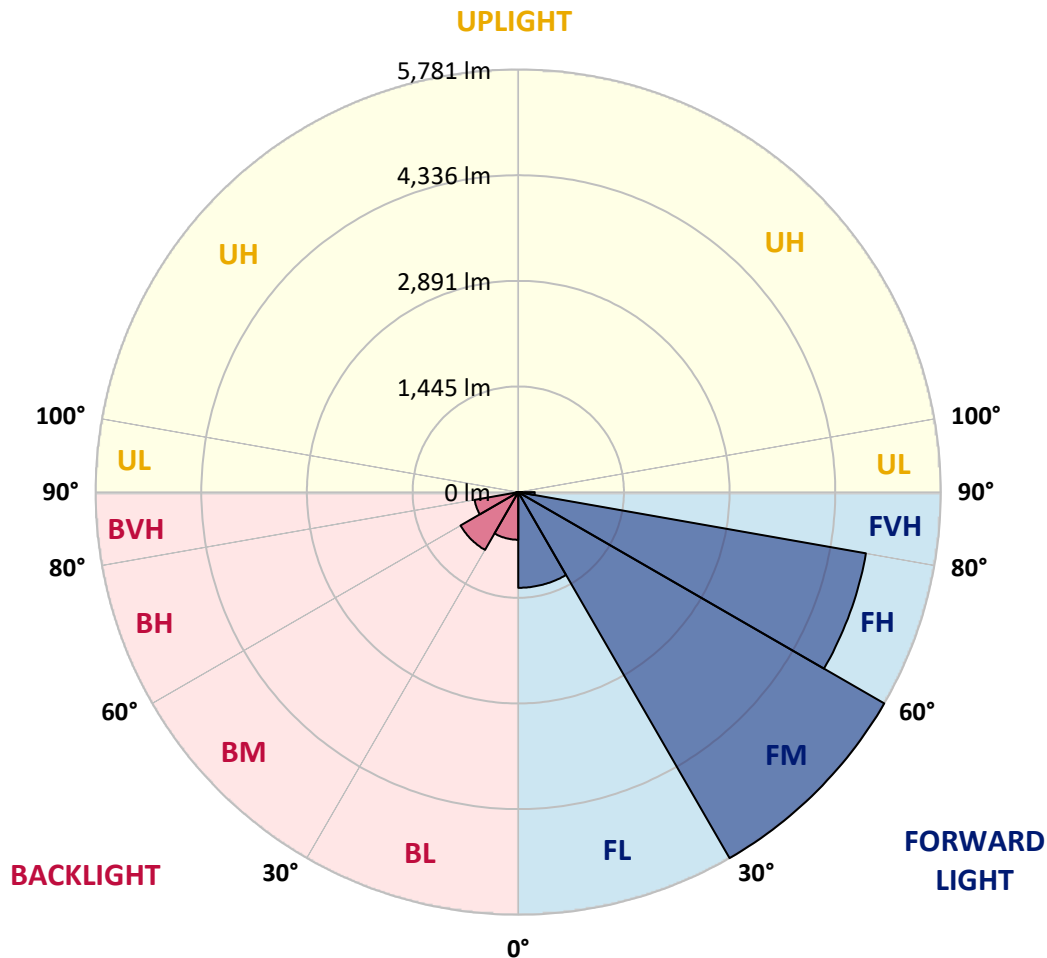
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1309.0	9.1			
FM (30°-60°)	5781.4	40.3			
FH (60°-80°)	4829.3	33.7			G2/5000
FVH (80°-90°)	226.2	1.6			G3/500
BL (0°-30°)	651.6	4.5	B2/1000		
BM (30°-60°)	911.8	6.4	B1/1000		
BH (60°-80°)	606.6	4.2	B2/1000		G2/1000
BVH (80°-90°)	30.1	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3944.9	3944.9	3944.9	3944.9	3944.9	3944.9	3944.9	3944.9	3944.9	3944.9	3944.9
2.5°	4051.5	4057.9	4057.9	4070.8	4027.2	4048.2	4045.0	4025.6	4032.1	3998.2	3964.3
5°	3936.8	3932.0	3957.8	3961.1	3995.0	4004.6	4012.7	3999.8	4003.0	3928.8	3896.5
7.5°	3643.1	3641.5	3685.0	3722.2	3793.2	3859.4	3903.0	3890.0	3907.8	3861.0	3785.1
10°	3294.4	3331.6	3376.7	3413.9	3544.6	3628.6	3741.5	3752.8	3820.6	3809.3	3672.1
12.5°	3032.9	3049.1	3083.0	3189.5	3309.0	3447.8	3609.2	3623.7	3689.9	3722.2	3602.7
15°	2818.3	2832.8	2876.4	2955.5	3089.4	3254.1	3459.1	3496.2	3628.6	3639.8	3512.3
17.5°	2661.7	2673.0	2702.0	2781.1	2890.9	3102.3	3296.0	3362.2	3536.5	3591.4	3418.7
20°	2600.4	2576.1	2592.3	2642.3	2752.1	2915.1	3165.3	3223.4	3446.2	3554.3	3329.9
22.5°	2572.9	2551.9	2561.6	2558.4	2645.5	2761.8	3024.9	3086.2	3360.6	3510.7	3250.8
25°	2593.9	2593.9	2584.2	2576.1	2585.8	2661.7	2873.1	2968.4	3246.0	3473.6	3170.1
27.5°	2706.9	2663.3	2668.1	2634.2	2624.6	2624.6	2805.3	2861.8	3208.9	3452.6	3104.0
30°	2779.5	2800.5	2802.1	2752.1	2702.0	2611.7	2742.4	2797.3	3178.2	3478.4	3065.2
32.5°	2965.1	2955.5	2928.0	2918.3	2844.1	2742.4	2773.1	2810.2	3160.5	3536.5	3076.5
35°	3150.8	3145.9	3147.5	3142.7	3065.2	2915.1	2855.4	2905.4	3192.7	3638.2	3115.3
37.5°	3342.9	3355.8	3410.6	3410.6	3328.3	3165.3	3086.2	3071.7	3310.6	3804.5	3207.3
40°	3534.9	3567.2	3636.6	3746.4	3630.2	3478.4	3350.9	3328.3	3452.6	4027.2	3428.4
42.5°	3718.9	3772.2	3909.4	4072.4	4033.7	3882.0	3712.5	3686.7	3744.8	4358.1	3736.7
45°	3954.6	3999.8	4216.1	4466.3	4519.5	4385.6	4187.0	4166.1	4162.8	4842.4	4161.2
47.5°	4312.9	4361.4	4577.7	4829.5	4994.1	5015.1	4792.3	4769.7	4692.3	5496.1	4782.6
50°	4761.7	4840.8	5023.2	5316.9	5555.8	5780.2	5717.2	5651.0	5499.3	6256.3	5570.3
52.5°	5089.3	5186.2	5433.1	5809.2	6230.5	6587.2	6813.2	6813.2	6464.6	7090.8	6517.8
55°	5176.5	5234.6	5546.1	6090.1	6811.6	7713.9	8186.8	8151.3	7613.8	7968.9	7620.3
57.5°	4829.5	4905.3	5283.0	5852.8	7116.7	8767.9	9550.8	9558.8	8869.6	8989.1	8708.2
60°	3873.9	3898.1	4343.6	5105.5	6822.9	9616.9	11413.5	11444.1	10298.1	9897.8	9261.8
62.5°	2677.8	2755.3	3091.0	3759.3	5652.7	9521.7	13210.0	13361.7	11442.5	10377.2	9349.0
65°	1762.6	1809.4	1988.6	2395.4	3935.2	8253.0	13768.5	14236.6	12317.4	10404.6	8984.2
67.5°	1278.4	1286.5	1339.7	1549.6	2364.7	5935.1	12814.5	13474.7	12645.0	10175.4	8128.7
70°	1033.0	1039.5	1058.9	1192.8	1527.0	3714.1	10451.5	11486.1	11662.0	9089.1	6546.9
72.5°	839.3	847.4	871.6	997.5	1259.0	2066.1	7642.9	8903.5	9486.2	6724.4	4351.7
75°	660.2	666.6	724.7	849.0	1183.2	1418.8	5070.0	6304.8	6383.9	3930.4	2037.0
77.5°	452.0	463.3	534.3	719.9	1113.7	1241.3	3160.5	4038.5	3623.7	1538.3	700.5
80°	287.3	303.5	345.4	545.6	984.6	1184.8	1966.0	2411.5	1586.7	526.2	337.4
82.5°	169.5	185.6	227.6	353.5	773.2	1099.2	1384.9	1509.2	744.1	269.6	203.4
85°	93.6	104.9	137.2	213.1	453.6	976.5	1108.9	1083.1	426.1	143.7	127.5
87.5°	30.7	35.5	50.0	85.5	187.2	460.0	665.0	624.7	221.1	66.2	50.0
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°	3944.9	3944.9	3944.9	3944.9	3944.9	3944.9	3944.9	3944.9	3944.9	3944.9	3944.9
2.5°	3941.7	3936.8	3864.2	3809.3	3715.7	3638.2	3607.6	3565.6	3564.0	3533.3	3525.2
5°	3846.5	3796.4	3685.0	3578.5	3412.3	3300.9	3199.2	3128.2	3099.1	3036.2	3021.6
7.5°	3723.8	3657.6	3486.5	3286.4	3091.0	2916.7	2758.5	2600.4	2511.6	2480.9	2447.0
10°	3596.3	3480.1	3226.6	3002.3	2729.5	2461.5	2213.0	1990.2	1869.2	1783.6	1746.5
12.5°	3494.6	3339.6	3016.8	2681.1	2321.1	1962.8	1673.8	1439.8	1302.6	1238.0	1209.0
15°	3380.0	3175.0	2787.6	2363.1	1914.4	1507.6	1225.1	1041.1	986.2	955.6	950.7
17.5°	3258.9	3021.6	2539.0	2049.9	1517.3	1134.7	952.3	878.1	853.9	841.0	834.5
20°	3145.9	2884.4	2284.0	1701.3	1188.0	910.4	824.8	786.1	784.5	790.9	789.3
22.5°	2986.1	2705.3	2032.2	1378.5	949.1	792.5	737.7	728.0	737.7	745.7	749.0
25°	2895.7	2558.4	1751.3	1094.4	784.5	703.8	686.0	682.8	697.3	707.0	705.4
27.5°	2802.1	2406.7	1489.8	876.5	687.6	640.8	637.6	640.8	655.3	669.9	668.2
30°	2729.5	2285.6	1244.5	732.8	613.4	595.6	592.4	595.6	603.7	605.3	605.3
32.5°	2669.8	2141.9	1036.3	636.0	568.2	553.6	556.9	555.3	556.9	558.5	560.1
35°	2634.2	2056.4	865.2	576.2	531.0	519.7	518.1	513.3	514.9	516.5	514.9
37.5°	2710.1	2014.4	729.6	534.3	505.2	495.5	492.3	489.1	484.2	484.2	484.2
40°	2824.7	1991.8	647.3	506.8	485.9	474.6	464.9	461.6	461.6	463.3	464.9
42.5°	3052.3	2029.0	590.8	485.9	461.6	448.7	439.0	440.7	445.5	450.3	447.1
45°	3381.6	2141.9	564.9	469.7	447.1	429.4	422.9	421.3	426.1	434.2	440.7
47.5°	3812.6	2317.9	555.3	455.2	437.4	413.2	405.1	410.0	416.4	427.7	422.9
50°	4517.9	2713.3	563.3	442.3	422.9	405.1	395.5	390.6	395.5	403.5	406.8
52.5°	5439.6	3431.6	594.0	435.8	413.2	398.7	382.5	374.5	379.3	385.8	385.8
55°	6542.0	4413.0	679.5	427.7	397.1	389.0	371.2	355.1	358.3	358.3	356.7
57.5°	7513.7	5153.9	781.2	416.4	387.4	376.1	353.5	334.1	330.9	332.5	334.1
60°	7949.6	5350.8	829.7	413.2	387.4	359.9	329.3	309.9	305.1	301.8	301.8
62.5°	7873.7	5010.2	731.2	398.7	397.1	347.0	306.7	285.7	279.2	272.8	274.4
65°	7415.3	4524.4	576.2	379.3	398.7	339.0	284.1	263.1	251.8	243.7	242.1
67.5°	6577.6	3862.6	456.8	364.8	382.5	324.4	264.7	240.5	230.8	222.7	219.5
70°	5145.8	3028.1	397.1	345.4	343.8	288.9	242.1	221.1	206.6	196.9	196.9
72.5°	3336.4	1914.4	340.6	306.7	297.0	242.1	209.8	196.9	185.6	177.6	177.6
75°	1510.8	889.4	274.4	256.6	242.1	193.7	177.6	171.1	161.4	153.3	153.3
77.5°	542.3	379.3	205.0	201.8	180.8	150.1	143.7	138.8	132.4	124.3	124.3
80°	303.5	240.5	153.3	146.9	125.9	111.4	103.3	103.3	100.1	95.2	93.6
82.5°	192.1	156.6	113.0	98.5	82.3	74.2	71.0	69.4	67.8	61.3	59.7
85°	121.1	106.5	74.2	58.1	48.4	37.1	35.5	33.9	30.7	27.4	27.4
87.5°	54.9	61.3	29.1	17.8	12.9	8.1	4.8	1.6	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)