

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: P480416

Luminaire Tested: **IFLD-S-SA2D-730-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480416  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-730-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

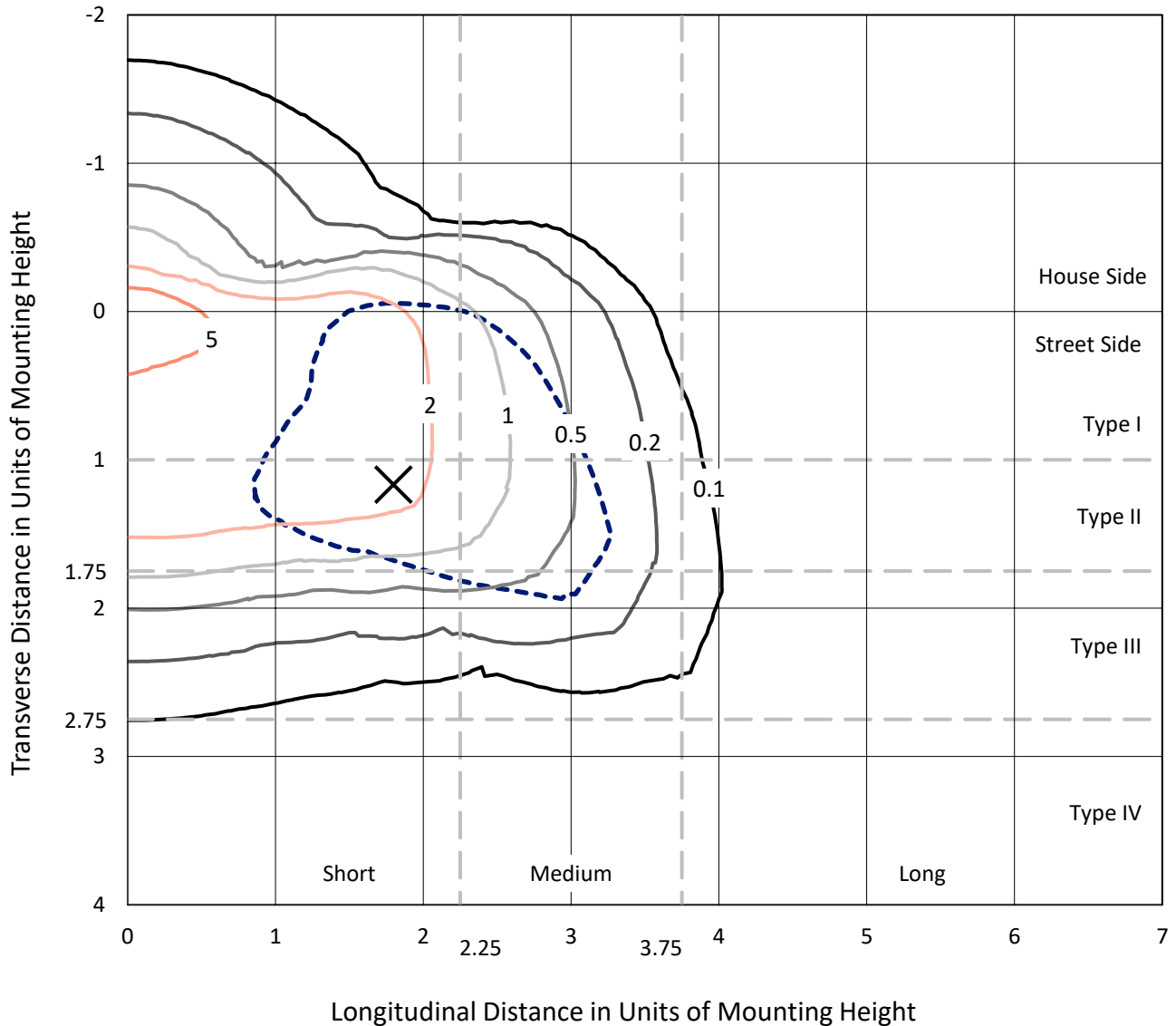
Lumens per Lamp: N/A  
Luminaire Lumens: 14052.3 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

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

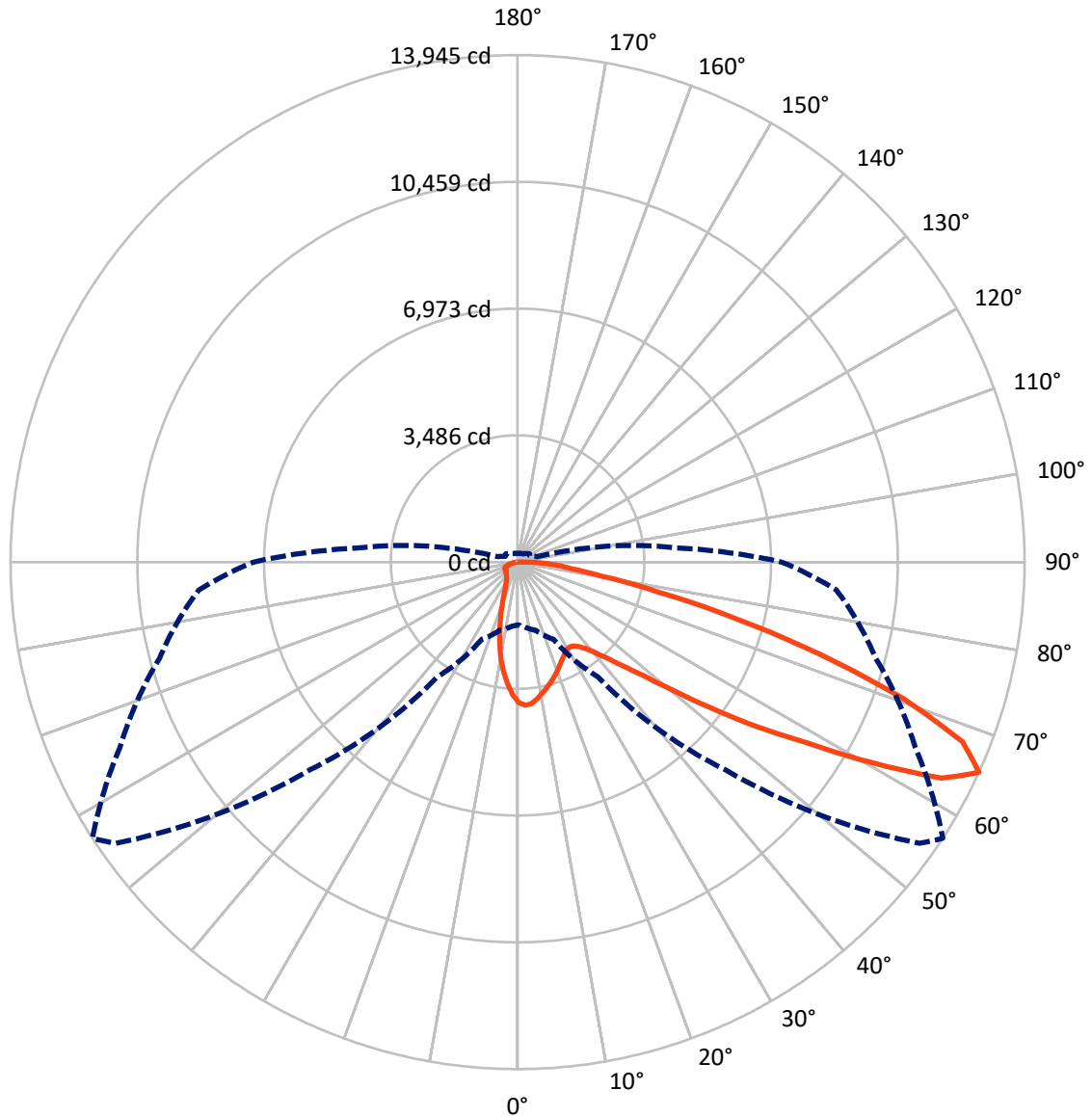
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.7 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	2155.0	0.0	2155.0
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	11897.2	0.0	11897.2
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	14052.3	0.0	14052.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.6	2.3
10°-20°	696.4	5.0
20°-30°	900.4	6.4
30°-40°	1211.7	8.6
40°-50°	1932.1	13.7
50°-60°	3412.5	24.3
60°-70°	3754.2	26.7
70°-80°	1570.4	11.2
80°-90°	251.0	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°	14052.3	100.0
0°-180°	14052.3	100.0

**Coefficient of Utilization**



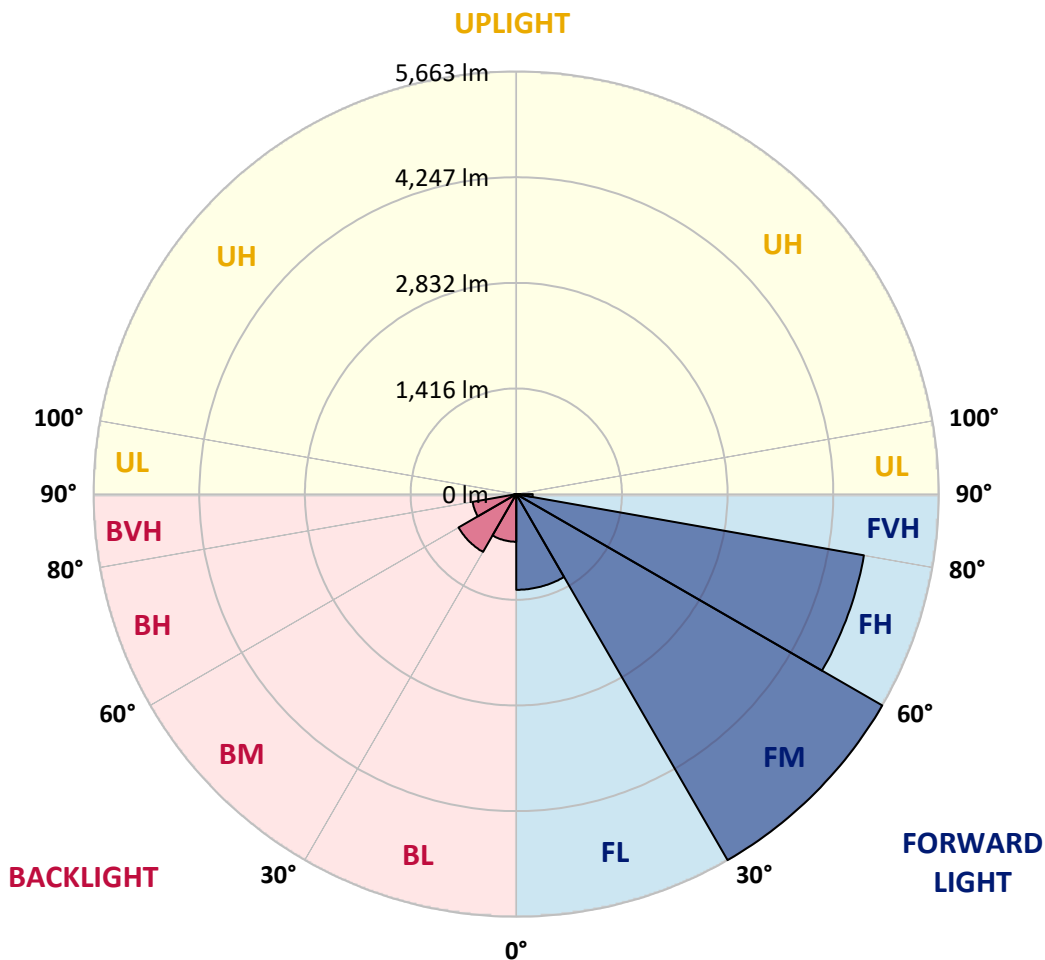
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1282.2	9.1			
FM (30°-60°)	5663.1	40.3			
FH (60°-80°)	4730.4	33.7			G2/5000
FVH (80°-90°)	221.5	1.6			G2/225
BL (0°-30°)	638.2	4.5	B2/1000		
BM (30°-60°)	893.2	6.4	B1/1000		
BH (60°-80°)	594.2	4.2	B2/1000		G2/1000
BVH (80°-90°)	29.4	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°	3864.2	3864.2	3864.2	3864.2	3864.2	3864.2	3864.2	3864.2	3864.2	3864.2	3864.2
2.5°	3968.5	3974.9	3974.9	3987.5	3944.8	3965.4	3962.2	3943.2	3949.6	3916.4	3883.2
5°	3856.3	3851.5	3876.8	3880.0	3913.2	3922.7	3930.6	3917.9	3921.1	3848.4	3816.8
7.5°	3568.5	3566.9	3609.6	3646.0	3715.6	3780.4	3823.1	3810.4	3827.8	3782.0	3707.7
10°	3227.0	3263.4	3307.6	3344.0	3472.1	3554.3	3665.0	3676.0	3742.4	3731.4	3597.0
12.5°	2970.9	2986.7	3019.9	3124.2	3241.2	3377.2	3535.3	3549.5	3614.4	3646.0	3529.0
15°	2760.6	2774.8	2817.5	2895.0	3026.2	3187.5	3388.3	3424.6	3554.3	3565.4	3440.5
17.5°	2607.2	2618.3	2646.7	2724.2	2831.7	3038.9	3228.6	3293.4	3464.2	3517.9	3348.8
20°	2547.1	2523.4	2539.2	2588.2	2695.8	2855.4	3100.5	3157.4	3375.6	3481.6	3261.8
22.5°	2520.3	2499.7	2509.2	2506.0	2591.4	2705.2	2963.0	3023.0	3291.8	3438.9	3184.3
25°	2540.8	2540.8	2531.3	2523.4	2532.9	2607.2	2814.3	2907.6	3179.6	3402.5	3105.3
27.5°	2651.5	2608.8	2613.5	2580.3	2570.9	2570.9	2747.9	2803.3	3143.2	3382.0	3040.4
30°	2722.6	2743.2	2744.8	2695.8	2646.7	2558.2	2686.3	2740.0	3113.2	3407.3	3002.5
32.5°	2904.5	2895.0	2868.1	2858.6	2785.9	2686.3	2716.3	2752.7	3095.8	3464.2	3013.6
35°	3086.3	3081.5	3083.1	3078.4	3002.5	2855.4	2796.9	2846.0	3127.4	3563.8	3051.5
37.5°	3274.4	3287.1	3340.8	3340.8	3260.2	3100.5	3023.0	3008.8	3242.8	3726.6	3141.6
40°	3462.6	3494.2	3562.2	3669.7	3555.9	3407.3	3282.3	3260.2	3382.0	3944.8	3358.2
42.5°	3642.8	3695.0	3829.4	3989.1	3951.1	3802.5	3636.5	3611.2	3668.1	4268.9	3660.2
45°	3873.7	3917.9	4129.8	4374.9	4427.1	4295.8	4101.3	4080.8	4077.6	4743.3	4076.1
47.5°	4224.7	4272.1	4484.0	4730.6	4891.9	4912.4	4694.3	4672.1	4596.2	5383.6	4684.8
50°	4664.2	4741.7	4920.4	5208.1	5442.1	5661.9	5600.2	5535.4	5386.8	6128.3	5456.3
52.5°	4985.2	5080.0	5322.0	5690.3	6103.0	6452.4	6673.8	6673.8	6332.3	6945.7	6384.4
55°	5070.6	5127.5	5432.6	5965.5	6672.2	7556.0	8019.3	7984.5	7458.0	7805.8	7464.3
57.5°	4730.6	4804.9	5174.9	5733.0	6971.0	8588.5	9355.3	9363.2	8688.1	8805.1	8530.0
60°	3794.6	3818.3	4254.7	5001.0	6683.3	9420.1	11179.9	11209.9	10087.4	9695.2	9072.3
62.5°	2623.0	2698.9	3027.8	3682.4	5537.0	9326.9	12939.6	13088.3	11208.4	10164.8	9157.7
65°	1726.6	1772.4	1947.9	2346.3	3854.7	8084.1	13486.7	13945.2	12065.3	10191.7	8800.4
67.5°	1252.2	1260.1	1312.3	1517.8	2316.3	5813.7	12552.3	13198.9	12386.3	9967.2	7962.4
70°	1011.9	1018.2	1037.2	1168.4	1495.7	3638.1	10237.6	11251.0	11423.4	8903.1	6412.9
72.5°	822.2	830.1	853.8	977.1	1233.3	2023.8	7486.5	8721.3	9292.1	6586.8	4262.6
75°	646.7	653.0	709.9	831.7	1158.9	1389.8	4966.2	6175.7	6253.2	3850.0	1995.3
77.5°	442.7	453.8	523.3	705.2	1091.0	1215.9	3095.8	3955.9	3549.5	1506.8	686.2
80°	281.4	297.2	338.4	534.4	964.5	1160.5	1925.8	2362.1	1554.2	515.4	330.4
82.5°	166.0	181.8	222.9	346.3	757.3	1076.7	1356.6	1478.3	728.9	264.0	199.2
85°	91.7	102.8	134.4	208.7	444.3	956.6	1086.2	1060.9	417.4	140.7	124.9
87.5°	30.0	34.8	49.0	83.8	183.4	450.6	651.4	611.9	216.6	64.8	49.0
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°	3864.2	3864.2	3864.2	3864.2	3864.2	3864.2	3864.2	3864.2	3864.2	3864.2	3864.2
2.5°	3861.0	3856.3	3785.1	3731.4	3639.7	3563.8	3533.7	3492.6	3491.0	3461.0	3453.1
5°	3767.7	3718.7	3609.6	3505.3	3342.4	3233.3	3133.7	3064.2	3035.7	2974.0	2959.8
7.5°	3647.6	3582.8	3415.2	3219.1	3027.8	2857.0	2702.1	2547.1	2460.2	2430.1	2396.9
10°	3522.7	3408.8	3160.6	2940.8	2673.6	2411.2	2167.7	1949.5	1830.9	1747.1	1710.7
12.5°	3423.1	3271.3	2955.1	2626.2	2273.6	1922.6	1639.6	1410.3	1275.9	1212.7	1184.2
15°	3310.8	3110.0	2730.5	2314.7	1875.2	1476.7	1200.0	1019.8	966.0	936.0	931.3
17.5°	3192.2	2959.8	2487.1	2008.0	1486.2	1111.5	932.8	860.1	836.4	823.7	817.4
20°	3081.5	2825.4	2237.2	1666.5	1163.7	891.7	807.9	770.0	768.4	774.7	773.2
22.5°	2925.0	2649.9	1990.6	1350.3	929.7	776.3	722.6	713.1	722.6	730.5	733.6
25°	2836.5	2506.0	1715.5	1072.0	768.4	689.4	672.0	668.8	683.0	692.5	690.9
27.5°	2744.8	2357.4	1459.3	858.5	673.5	627.7	624.5	627.7	641.9	656.2	654.6
30°	2673.6	2238.8	1219.0	717.8	600.8	583.4	580.3	583.4	591.3	592.9	592.9
32.5°	2615.1	2098.1	1015.1	622.9	556.5	542.3	545.5	543.9	545.5	547.1	548.6
35°	2580.3	2014.3	847.5	564.4	520.2	509.1	507.5	502.8	504.4	505.9	504.4
37.5°	2654.7	1973.2	714.7	523.3	494.9	485.4	482.2	479.1	474.3	474.3	474.3
40°	2766.9	1951.1	634.0	496.5	475.9	464.8	455.4	452.2	452.2	453.8	455.4
42.5°	2989.8	1987.4	578.7	475.9	452.2	439.5	430.1	431.6	436.4	441.1	438.0
45°	3312.4	2098.1	553.4	460.1	438.0	420.6	414.2	412.7	417.4	425.3	431.6
47.5°	3734.5	2270.4	543.9	445.9	428.5	404.8	396.9	401.6	407.9	419.0	414.2
50°	4425.5	2657.8	551.8	433.2	414.2	396.9	387.4	382.6	387.4	395.3	398.4
52.5°	5328.3	3361.4	581.8	426.9	404.8	390.5	374.7	366.8	371.6	377.9	377.9
55°	6408.2	4322.7	665.6	419.0	388.9	381.0	363.7	347.8	351.0	351.0	349.4
57.5°	7360.0	5048.4	765.2	407.9	379.5	368.4	346.3	327.3	324.1	325.7	327.3
60°	7786.9	5241.3	812.7	404.8	379.5	352.6	322.5	303.6	298.8	295.7	295.7
62.5°	7712.6	4907.7	716.2	390.5	388.9	339.9	300.4	279.9	273.5	267.2	268.8
65°	7263.5	4431.8	564.4	371.6	390.5	332.0	278.3	257.7	246.7	238.7	237.2
67.5°	6442.9	3783.6	447.4	357.3	374.7	317.8	259.3	235.6	226.1	218.2	215.0
70°	5040.5	2966.1	388.9	338.4	336.8	283.0	237.2	216.6	202.4	192.9	192.9
72.5°	3268.1	1875.2	333.6	300.4	290.9	237.2	205.5	192.9	181.8	173.9	173.9
75°	1479.9	871.2	268.8	251.4	237.2	189.7	173.9	167.6	158.1	150.2	150.2
77.5°	531.2	371.6	200.8	197.6	177.1	147.0	140.7	136.0	129.6	121.7	121.7
80°	297.2	235.6	150.2	143.9	123.3	109.1	101.2	101.2	98.0	93.3	91.7
82.5°	188.1	153.4	110.7	96.4	80.6	72.7	69.6	68.0	66.4	60.1	58.5
85°	118.6	104.4	72.7	56.9	47.4	36.4	34.8	33.2	30.0	26.9	26.9
87.5°	53.8	60.1	28.5	17.4	12.6	7.9	4.7	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)