

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: P480455

Luminaire Tested: **IFLD-S-SA2D-735-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480455  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-735-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

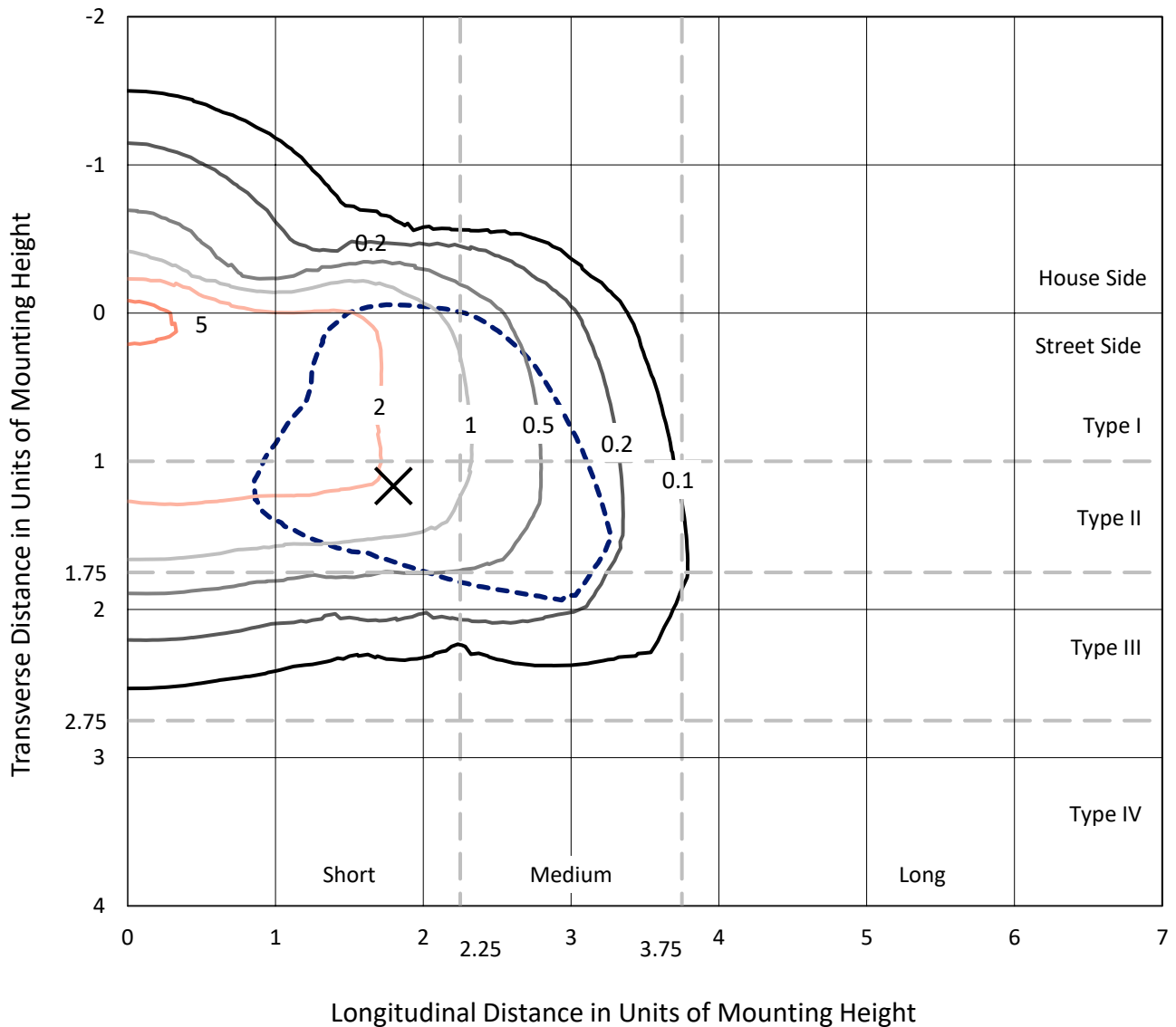
Lumens per Lamp: N/A  
Luminaire Lumens: 15220.5 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

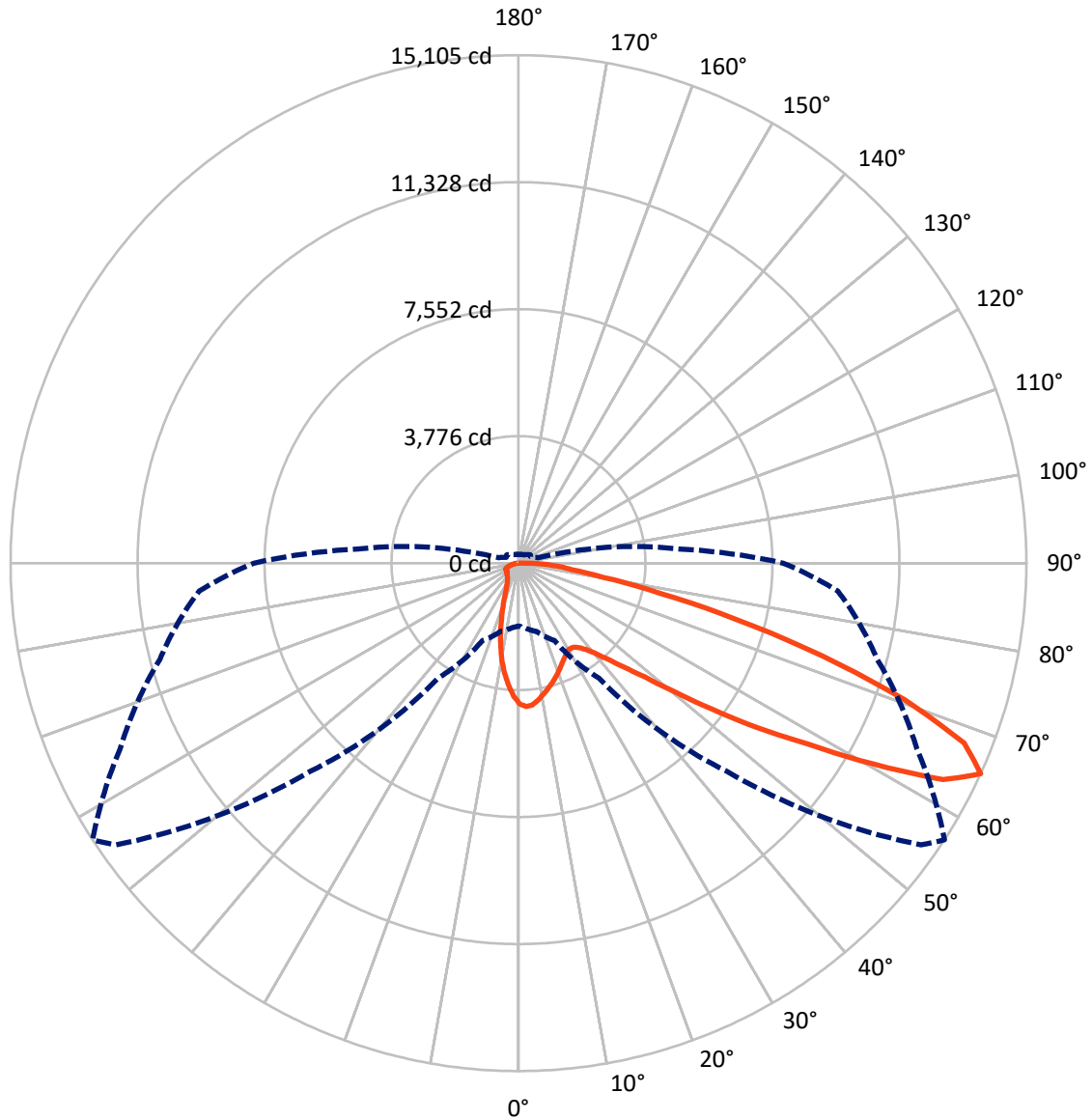
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	2334.2	0.0	2334.2
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	12886.3	0.0	12886.3
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	15220.5	0.0	15220.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.5	2.3
10°-20°	754.3	5.0
20°-30°	975.3	6.4
30°-40°	1312.4	8.6
40°-50°	2092.7	13.7
50°-60°	3696.2	24.3
60°-70°	4066.3	26.7
70°-80°	1701.0	11.2
80°-90°	271.9	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°	15220.5	100.0
0°-180°	15220.5	100.0



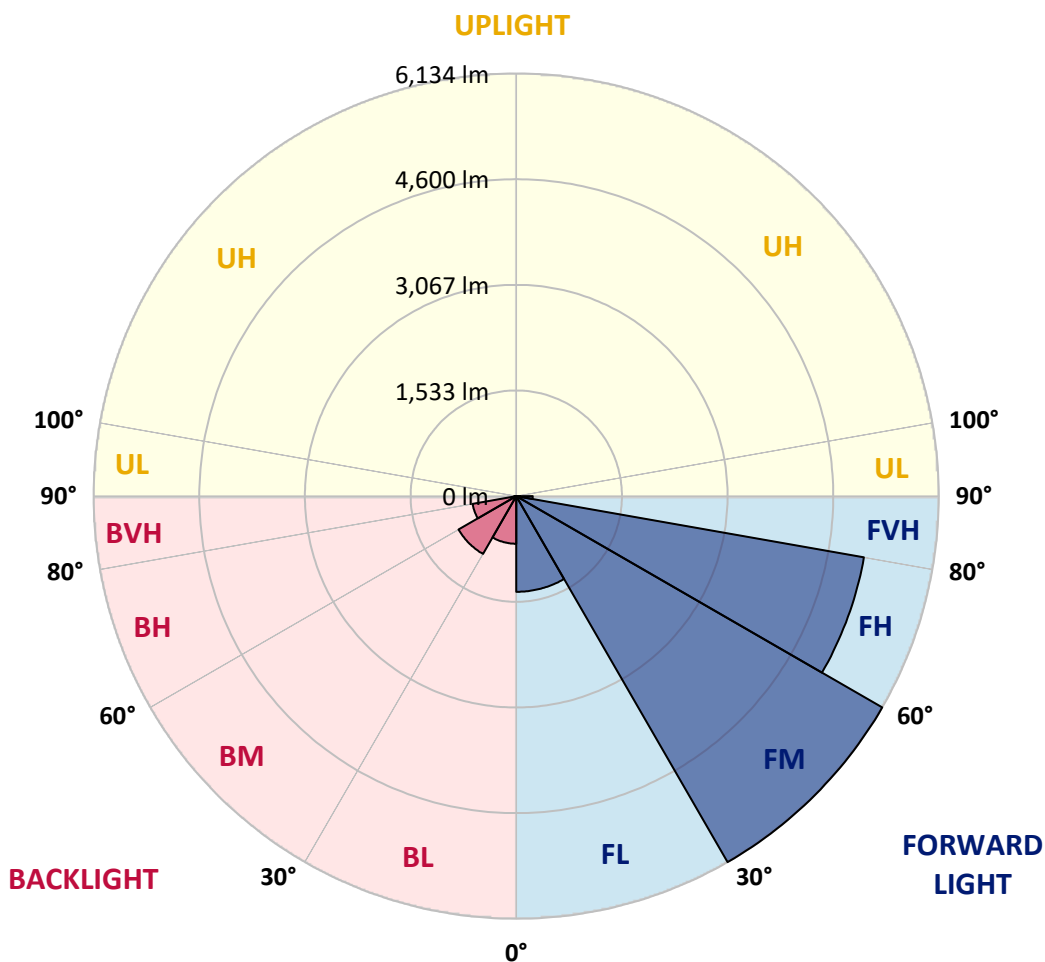
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1388.8	9.1			
FM (30°-60°)	6133.8	40.3			
FH (60°-80°)	5123.7	33.7			G3/7500
FVH (80°-90°)	240.0	1.6			G3/500
BL (0°-30°)	691.3	4.5	B2/1000		
BM (30°-60°)	967.4	6.4	B1/1000		
BH (60°-80°)	643.6	4.2	B2/1000		G2/1000
BVH (80°-90°)	31.9	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°	4185.4	4185.4	4185.4	4185.4	4185.4	4185.4	4185.4	4185.4	4185.4	4185.4	4185.4
2.5°	4298.5	4305.3	4305.3	4319.0	4272.8	4295.0	4291.6	4271.0	4277.9	4241.9	4206.0
5°	4176.9	4171.7	4199.1	4202.5	4238.5	4248.8	4257.3	4243.6	4247.1	4168.3	4134.0
7.5°	3865.2	3863.5	3909.7	3949.1	4024.4	4094.7	4140.9	4127.2	4146.0	4096.4	4015.9
10°	3495.3	3534.7	3582.6	3622.0	3760.7	3849.8	3969.6	3981.6	4053.6	4041.6	3896.0
12.5°	3217.8	3235.0	3270.9	3384.0	3510.7	3658.0	3829.2	3844.6	3914.8	3949.1	3822.4
15°	2990.1	3005.5	3051.7	3135.6	3277.8	3452.5	3670.0	3709.3	3849.8	3861.8	3726.5
17.5°	2824.0	2835.9	2866.8	2950.7	3067.1	3291.5	3497.0	3567.2	3752.2	3810.4	3627.1
20°	2758.9	2733.2	2750.3	2803.4	2919.9	3092.8	3358.3	3419.9	3656.3	3771.0	3532.9
22.5°	2729.8	2707.5	2717.8	2714.4	2806.8	2930.1	3209.3	3274.4	3565.5	3724.8	3449.0
25°	2752.0	2752.0	2741.8	2733.2	2743.5	2824.0	3048.3	3149.3	3443.9	3685.4	3363.4
27.5°	2871.9	2825.7	2830.8	2794.8	2784.6	2784.6	2976.4	3036.3	3404.5	3663.1	3293.2
30°	2949.0	2971.2	2973.0	2919.9	2866.8	2770.9	2909.6	2967.8	3372.0	3690.5	3252.1
32.5°	3145.9	3135.6	3106.5	3096.3	3017.5	2909.6	2942.1	2981.5	3353.1	3752.2	3264.1
35°	3342.9	3337.7	3339.4	3334.3	3252.1	3092.8	3029.5	3082.6	3387.4	3860.0	3305.2
37.5°	3546.6	3560.3	3618.6	3618.6	3531.2	3358.3	3274.4	3258.9	3512.4	4036.4	3402.8
40°	3750.4	3784.7	3858.3	3974.8	3851.5	3690.5	3555.2	3531.2	3663.1	4272.8	3637.4
42.5°	3945.7	4002.2	4147.7	4320.7	4279.6	4118.6	3938.8	3911.4	3973.1	4623.8	3964.5
45°	4195.7	4243.6	4473.1	4738.6	4795.1	4652.9	4442.3	4420.0	4416.6	5137.6	4414.9
47.5°	4575.9	4627.3	4856.7	5123.9	5298.6	5320.8	5084.5	5060.5	4978.3	5831.2	5074.2
50°	5052.0	5135.9	5329.4	5641.1	5894.5	6132.6	6065.8	5995.6	5834.6	6637.8	5909.9
52.5°	5399.6	5502.4	5764.4	6163.4	6610.4	6988.8	7228.6	7228.6	6858.7	7523.1	6915.2
55°	5492.1	5553.7	5884.3	6461.4	7226.9	8184.2	8686.0	8648.3	8078.0	8454.8	8084.9
57.5°	5123.9	5204.4	5605.1	6209.6	7550.5	9302.5	10133.0	10141.6	9410.4	9537.1	9239.1
60°	4110.1	4135.8	4608.4	5416.7	7238.9	10203.3	12109.3	12141.8	10925.9	10501.2	9826.5
62.5°	2841.1	2923.3	3279.5	3988.5	5997.3	10102.2	14015.3	14176.3	12140.1	11009.9	9919.0
65°	1870.1	1919.7	2109.8	2541.4	4175.1	8756.2	14607.9	15104.5	13068.3	11039.0	9531.9
67.5°	1356.3	1364.9	1421.4	1644.0	2508.9	6297.0	13595.8	14296.2	13416.0	10795.8	8624.3
70°	1096.0	1102.9	1123.4	1265.6	1620.1	3940.5	11088.6	12186.4	12373.0	9643.3	6946.0
72.5°	890.5	899.1	924.8	1058.3	1335.8	2192.0	8108.8	9446.3	10064.5	7134.4	4617.0
75°	700.4	707.3	768.9	900.8	1255.3	1505.3	5379.1	6689.1	6773.1	4170.0	2161.2
77.5°	479.5	491.5	566.8	763.8	1181.6	1316.9	3353.1	4284.8	3844.6	1632.0	743.2
80°	304.8	322.0	366.5	578.8	1044.6	1257.0	2085.9	2558.5	1683.4	558.3	357.9
82.5°	179.8	196.9	241.5	375.0	820.3	1166.2	1469.4	1601.2	789.5	286.0	215.8
85°	99.3	111.3	145.6	226.1	481.2	1036.1	1176.5	1149.1	452.1	152.4	135.3
87.5°	32.5	37.7	53.1	90.8	198.7	488.1	705.6	662.7	234.6	70.2	53.1
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°	4185.4	4185.4	4185.4	4185.4	4185.4	4185.4	4185.4	4185.4	4185.4	4185.4	4185.4
2.5°	4182.0	4176.9	4099.8	4041.6	3942.2	3860.0	3827.5	3783.0	3781.3	3748.7	3740.2
5°	4081.0	4027.9	3909.7	3796.7	3620.3	3502.1	3394.2	3318.9	3288.1	3221.3	3205.9
7.5°	3950.8	3880.6	3699.1	3486.7	3279.5	3094.5	2926.7	2758.9	2664.7	2632.2	2596.2
10°	3815.5	3692.2	3423.3	3185.3	2895.9	2611.6	2347.9	2111.5	1983.1	1892.3	1853.0
12.5°	3707.6	3543.2	3200.7	2844.5	2462.6	2082.4	1775.9	1527.6	1382.0	1313.5	1282.7
15°	3586.0	3368.5	2957.5	2507.1	2031.1	1599.5	1299.8	1104.6	1046.4	1013.8	1008.7
17.5°	3457.6	3205.9	2693.8	2174.9	1609.8	1203.9	1010.4	931.6	905.9	892.2	885.4
20°	3337.7	3060.3	2423.2	1805.0	1260.4	965.9	875.1	834.0	832.3	839.1	837.4
22.5°	3168.2	2870.2	2156.1	1462.5	1007.0	840.9	782.6	772.4	782.6	791.2	794.6
25°	3072.3	2714.4	1858.1	1161.1	832.3	746.7	727.8	724.4	739.8	750.1	748.4
27.5°	2973.0	2553.4	1580.7	929.9	729.5	679.9	676.4	679.9	695.3	710.7	709.0
30°	2895.9	2424.9	1320.4	777.5	650.8	631.9	628.5	631.9	640.5	642.2	642.2
32.5°	2832.5	2272.5	1099.4	674.7	602.8	587.4	590.8	589.1	590.8	592.5	594.2
35°	2794.8	2181.8	917.9	611.4	563.4	551.4	549.7	544.6	546.3	548.0	546.3
37.5°	2875.3	2137.2	774.1	566.8	536.0	525.7	522.3	518.9	513.8	513.8	513.8
40°	2996.9	2113.3	686.7	537.7	515.5	503.5	493.2	489.8	489.8	491.5	493.2
42.5°	3238.4	2152.7	626.8	515.5	489.8	476.1	465.8	467.5	472.7	477.8	474.4
45°	3587.8	2272.5	599.4	498.3	474.4	455.5	448.7	447.0	452.1	460.7	467.5
47.5°	4045.0	2459.2	589.1	482.9	464.1	438.4	429.8	435.0	441.8	453.8	448.7
50°	4793.4	2878.8	597.7	469.2	448.7	429.8	419.6	414.4	419.6	428.1	431.6
52.5°	5771.2	3640.8	630.2	462.4	438.4	423.0	405.9	397.3	402.4	409.3	409.3
55°	6940.9	4682.1	721.0	453.8	421.3	412.7	393.9	376.8	380.2	380.2	378.5
57.5°	7971.8	5468.1	828.9	441.8	411.0	399.0	375.0	354.5	351.1	352.8	354.5
60°	8434.2	5677.0	880.2	438.4	411.0	381.9	349.4	328.8	323.7	320.2	320.2
62.5°	8353.7	5315.7	775.8	423.0	421.3	368.2	325.4	303.1	296.3	289.4	291.1
65°	7867.4	4800.2	611.4	402.4	423.0	359.6	301.4	279.1	267.2	258.6	256.9
67.5°	6978.6	4098.1	484.6	387.0	405.9	344.2	280.9	255.2	244.9	236.3	232.9
70°	5459.5	3212.7	421.3	366.5	364.8	306.5	256.9	234.6	219.2	208.9	208.9
72.5°	3539.8	2031.1	361.3	325.4	315.1	256.9	222.6	208.9	196.9	188.4	188.4
75°	1602.9	943.6	291.1	272.3	256.9	205.5	188.4	181.5	171.3	162.7	162.7
77.5°	575.4	402.4	217.5	214.1	191.8	159.3	152.4	147.3	140.4	131.9	131.9
80°	322.0	255.2	162.7	155.8	133.6	118.2	109.6	109.6	106.2	101.0	99.3
82.5°	203.8	166.1	119.9	104.5	87.3	78.8	75.4	73.6	71.9	65.1	63.4
85°	128.4	113.0	78.8	61.7	51.4	39.4	37.7	36.0	32.5	29.1	29.1
87.5°	58.2	65.1	30.8	18.8	13.7	8.6	5.1	1.7	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)