

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: P482175

Luminaire Tested: **IFLD-S-SA3C-827-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482175  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-827-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (48) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

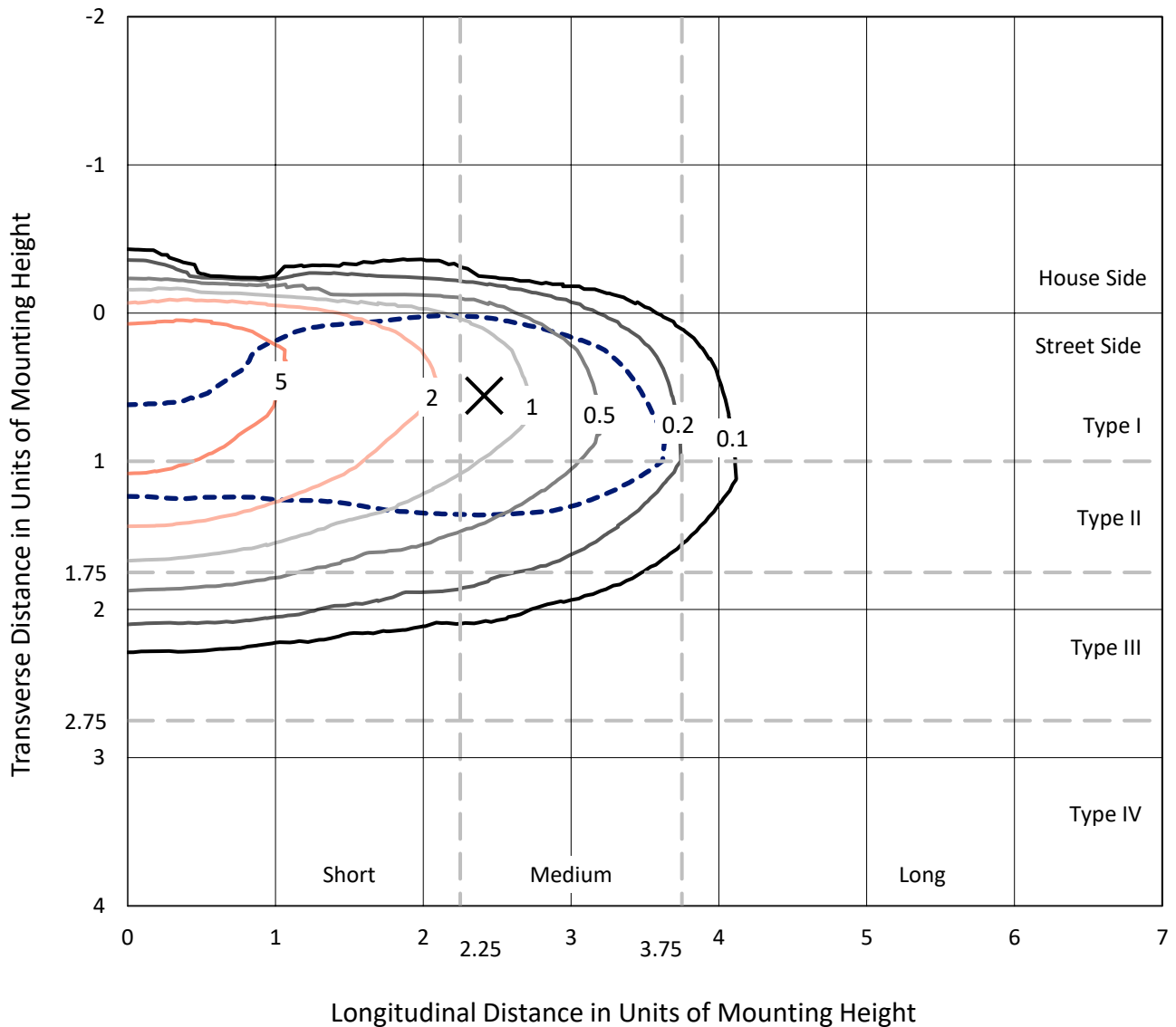
Lumens per Lamp: N/A  
Luminaire Lumens: 12241.9 lumens  
Efficiency: N/A  
Efficacy: 76.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 160.8  
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

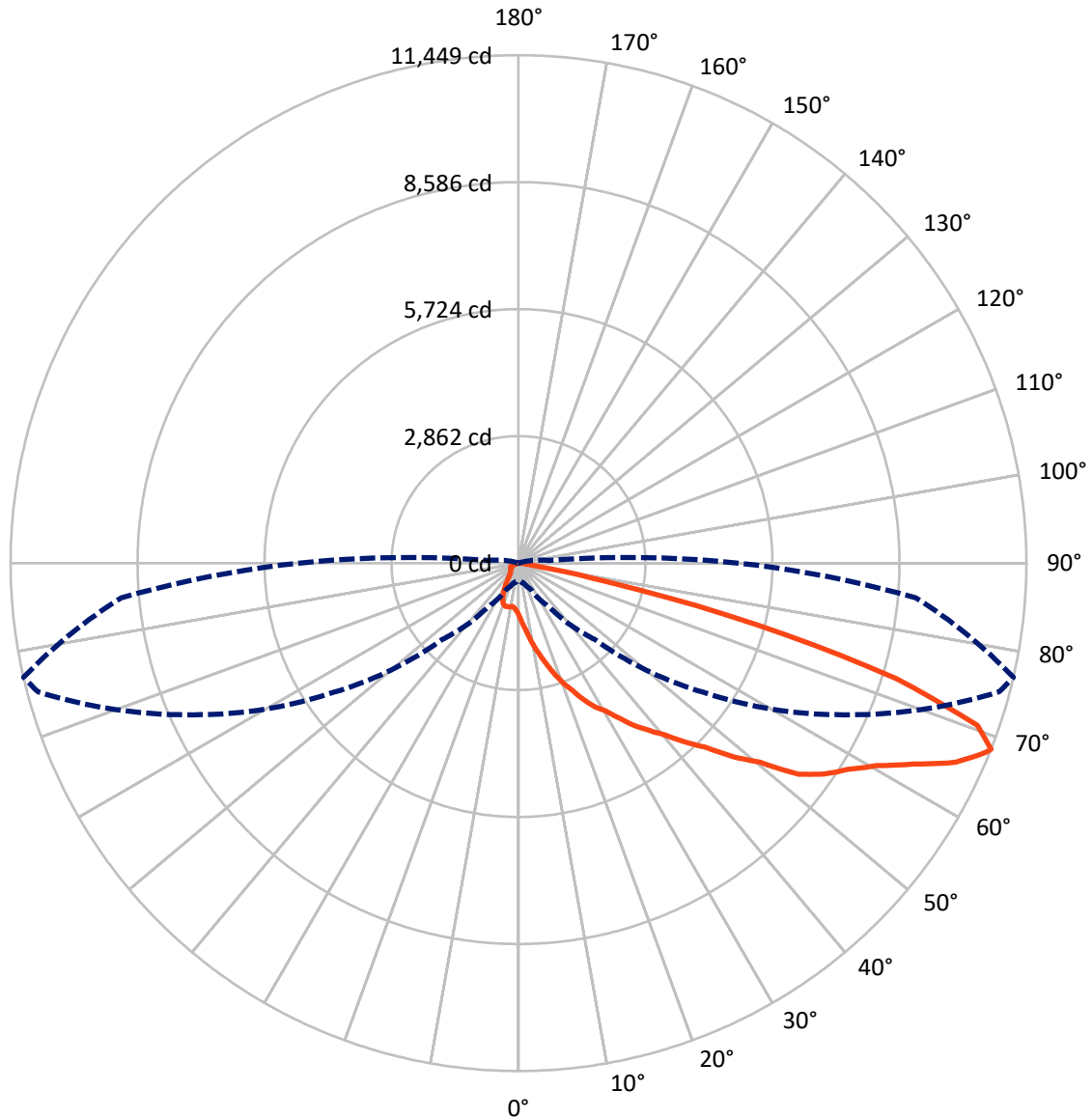
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	555.2	0.0	555.2
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	11686.8	0.0	11686.8
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	12241.9	0.0	12241.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.9	1.1
10°-20°	505.1	4.1
20°-30°	978.8	8.0
30°-40°	1706.4	13.9
40°-50°	2499.2	20.4
50°-60°	2936.1	24.0
60°-70°	2479.3	20.3
70°-80°	961.0	7.9
80°-90°	39.1	0.3
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°	12241.9	100.0
0°-180°	12241.9	100.0

**Coefficient of Utilization**

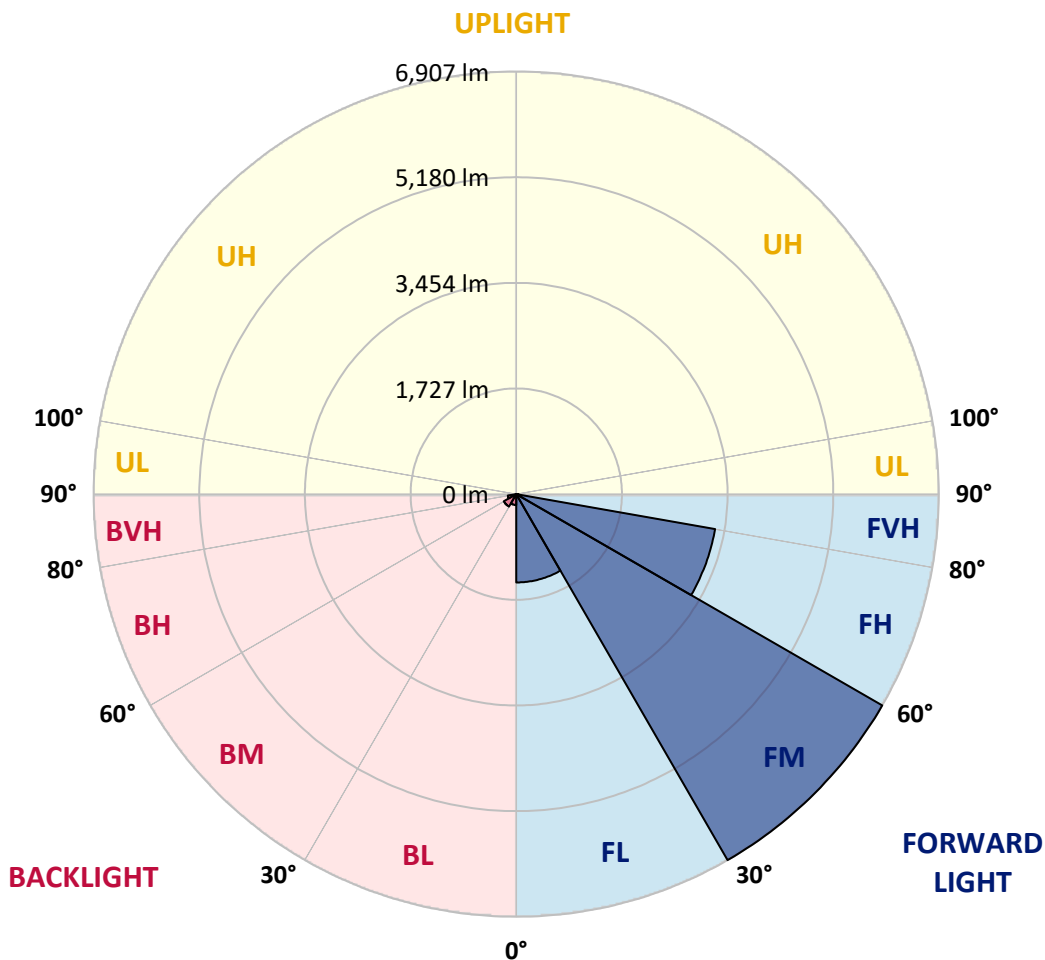


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1443.4	11.8			
FM (30°-60°)	6907.1	56.4			
FH (60°-80°)	3300.2	27.0			G2/5000
FVH (80°-90°)	36.1	0.3			G1/100
BL (0°-30°)	177.4	1.4	B1/500		
BM (30°-60°)	234.6	1.9	B1/1000		
BH (60°-80°)	140.2	1.1	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2
2.5°	1781.0	1747.3	1711.9	1701.8	1636.0	1561.8	1492.6	1425.2	1312.2	1313.9	1236.3
5°	2295.5	2253.3	2224.6	2217.9	2115.0	1986.8	1882.2	1691.7	1504.4	1462.3	1320.6
7.5°	2718.8	2705.3	2663.1	2627.7	2551.8	2395.0	2271.8	1998.6	1713.6	1666.4	1423.5
10°	2975.2	2995.4	3013.9	2968.4	2909.4	2796.4	2627.7	2332.6	1951.4	1892.4	1556.7
12.5°	3248.4	3214.7	3226.5	3263.6	3186.0	3160.7	2951.5	2676.6	2229.7	2116.7	1725.4
15°	3319.2	3332.7	3361.4	3469.3	3521.6	3449.1	3268.6	2954.9	2518.1	2361.2	1882.2
17.5°	3366.4	3359.7	3395.1	3557.0	3636.3	3705.5	3592.4	3265.2	2769.4	2629.4	2077.9
20°	3425.5	3388.4	3466.0	3568.8	3752.7	3897.7	3892.7	3577.3	3032.5	2884.1	2271.8
22.5°	3644.7	3616.1	3678.5	3688.6	3816.8	4019.2	4068.1	3831.9	3302.4	3120.2	2481.0
25°	4049.5	4101.8	4027.6	3963.5	4002.3	4135.5	4171.0	4057.9	3573.9	3406.9	2690.1
27.5°	4641.5	4634.8	4488.0	4405.4	4312.6	4295.8	4321.1	4268.8	3788.1	3668.3	2862.2
30°	5277.4	5221.7	5086.8	4887.8	4683.7	4557.2	4521.8	4467.8	4039.4	3865.7	3032.5
32.5°	5783.3	5813.7	5663.6	5403.9	5064.8	4894.5	4724.2	4665.1	4316.0	4162.5	3228.1
35°	6248.8	6208.4	6088.6	5869.4	5565.8	5290.9	5024.4	4897.9	4648.3	4496.5	3444.0
37.5°	6592.9	6643.5	6415.8	6206.7	5904.8	5677.1	5415.7	5139.1	4990.6	4788.2	3707.1
40°	6918.4	6839.1	6685.7	6493.4	6213.4	6039.7	5867.7	5435.9	5354.9	5093.5	4004.0
42.5°	6861.1	6866.1	6781.8	6626.6	6424.2	6324.7	6265.7	5796.8	5685.5	5518.5	4294.1
45°	6626.6	6646.9	6675.5	6599.6	6616.5	6517.0	6675.5	6211.7	6102.1	5925.0	4628.0
47.5°	6368.6	6402.3	6395.6	6533.9	6690.7	6724.5	7120.8	6672.2	6624.9	6527.1	5090.1
50°	5940.2	5953.7	6083.6	6334.9	6549.1	6901.5	7454.8	7174.8	7247.3	7055.0	5640.0
52.5°	5208.2	5257.1	5591.1	5950.3	6382.1	6990.9	7680.8	7921.9	8105.8	7908.4	6167.9
55°	4282.3	4349.7	4678.6	5351.6	5984.0	6856.0	7886.5	8316.6	8689.3	8390.8	6488.3
57.5°	3445.7	3452.5	3747.6	4442.5	5419.0	6591.2	7991.1	8508.9	9009.8	8770.3	6879.6
60°	2626.0	2599.0	2863.8	3466.0	4467.8	5940.2	7729.7	8606.7	9409.5	9271.2	7350.2
62.5°	1690.0	1647.8	1936.2	2523.1	3489.6	4855.7	7206.8	8608.4	10033.6	9981.3	8137.8
65°	836.6	807.9	1055.8	1546.6	2415.2	3713.9	6461.3	8576.3	10795.9	10829.6	8905.2
67.5°	441.9	452.0	531.3	784.3	1393.1	2624.3	5338.1	8200.2	11185.5	11374.4	9090.8
68°	406.5	409.8	472.2	652.7	1209.3	2433.8	5071.6	8090.6	11215.9	11448.6	8987.9
70°	330.6	335.6	357.6	409.8	654.4	1583.7	3912.9	7159.6	10758.8	10971.3	8136.1
72.5°	263.1	278.3	291.8	313.7	384.5	831.5	2433.8	5579.3	8888.4	8912.0	6333.2
75°	200.7	212.5	239.5	258.0	300.2	457.1	1158.7	3401.9	5832.2	5545.5	3730.7
77.5°	155.2	165.3	177.1	202.4	251.3	308.6	354.2	1443.7	2477.6	2039.1	1054.1
80°	92.8	99.5	138.3	158.5	219.3	209.1	140.0	401.4	502.6	396.3	192.3
82.5°	54.0	59.0	79.3	121.4	153.5	113.0	82.6	124.8	123.1	107.9	64.1
85°	1.7	3.4	43.9	72.5	54.0	30.4	50.6	52.3	43.9	40.5	28.7
87.5°	0.0	1.7	11.8	10.1	11.8	6.7	10.1	13.5	16.9	15.2	11.8
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°	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2
2.5°	1184.0	1146.9	1064.2	1001.8	934.4	893.9	853.4	828.1	814.6	806.2	812.9
5°	1214.3	1136.8	1003.5	885.5	807.9	755.6	703.3	676.3	651.0	637.5	646.0
7.5°	1281.8	1165.4	944.5	816.3	725.2	644.3	578.5	526.2	495.9	468.9	473.9
10°	1364.5	1182.3	946.2	775.8	644.3	516.1	423.3	357.6	320.5	296.8	295.2
12.5°	1448.8	1248.1	952.9	735.4	544.8	387.9	278.3	229.4	207.5	195.6	195.6
15°	1577.0	1307.1	936.1	661.1	413.2	253.0	190.6	173.7	165.3	155.2	156.9
17.5°	1688.3	1401.6	927.6	549.8	283.3	182.2	158.5	140.0	131.6	121.4	121.4
20°	1838.4	1460.6	882.1	425.0	195.6	151.8	128.2	111.3	97.8	89.4	91.1
22.5°	1975.0	1506.1	801.1	290.1	150.1	119.7	94.4	77.6	65.8	55.7	57.3
25°	2123.4	1551.7	683.1	178.8	106.3	74.2	50.6	37.1	25.3	18.6	18.6
27.5°	2229.7	1565.2	529.6	106.3	64.1	33.7	11.8	1.7	0.0	0.0	0.0
30°	2337.6	1570.2	366.0	57.3	25.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2460.7	1568.5	229.4	30.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
35°	2555.2	1539.9	109.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2698.6	1497.7	33.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2862.2	1421.8	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3008.9	1344.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3175.9	1248.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3469.3	1207.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3852.2	1175.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4088.3	1081.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4211.4	983.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4393.6	936.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4663.4	939.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5085.1	986.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5317.8	939.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5120.5	752.2	32.0	8.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
68°	4950.2	691.5	32.0	8.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	4091.7	450.3	30.4	8.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2980.2	249.6	25.3	6.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	1733.8	124.8	18.6	6.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	452.0	62.4	15.2	8.4	5.1	1.7	0.0	0.0	0.0	0.0	0.0
80°	89.4	40.5	13.5	10.1	6.7	3.4	0.0	0.0	0.0	0.0	0.0
82.5°	42.2	28.7	13.5	10.1	8.4	5.1	1.7	0.0	0.0	0.0	0.0
85°	21.9	13.5	13.5	10.1	10.1	6.7	3.4	0.0	0.0	0.0	0.0
87.5°	10.1	5.1	5.1	5.1	5.1	3.4	1.7	0.0	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)