

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: P481629

Luminaire Tested: **IFLD-S-SA3C-735-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481629  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-735-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

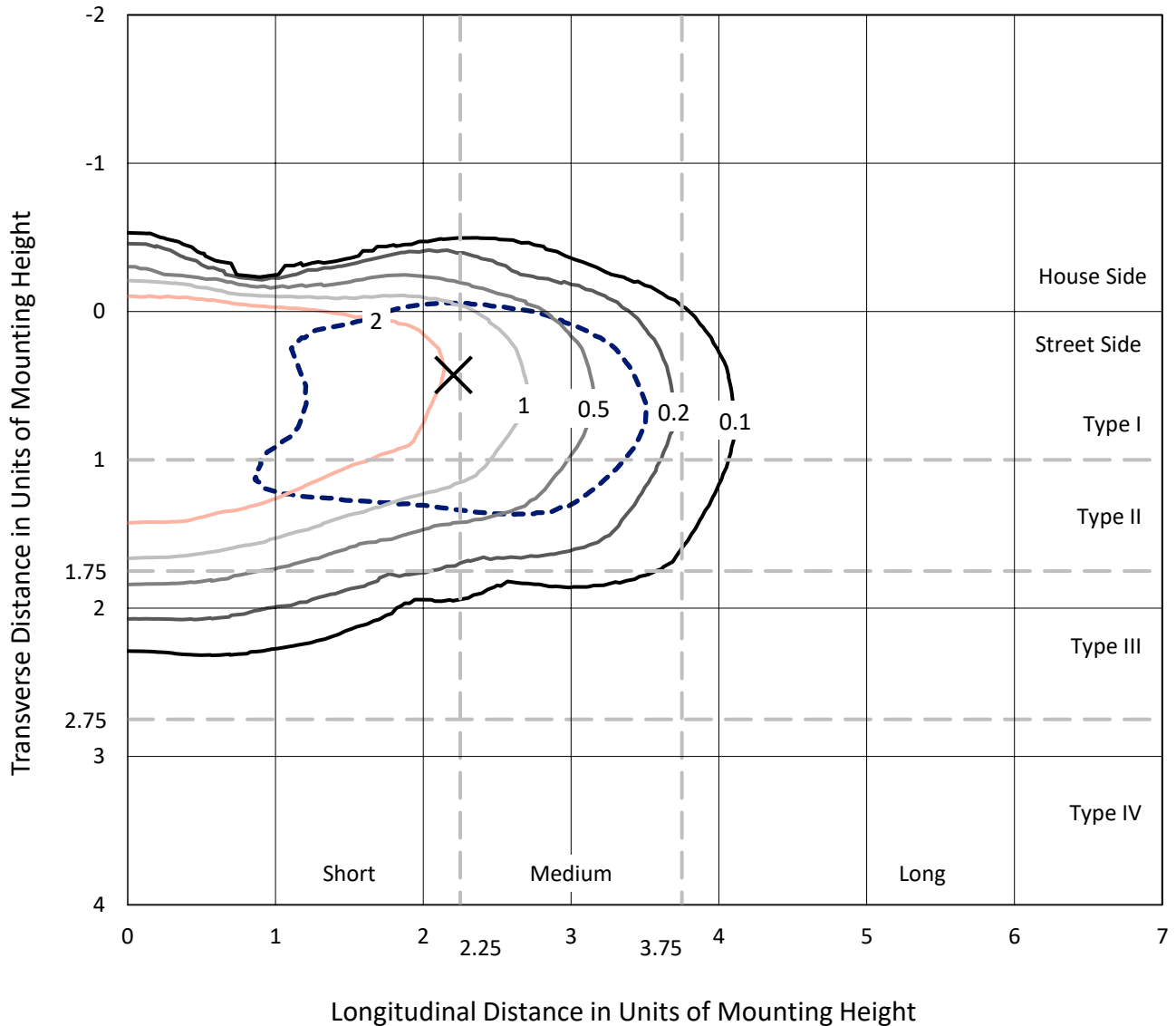
Lumens per Lamp: N/A  
Luminaire Lumens: 15045 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

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

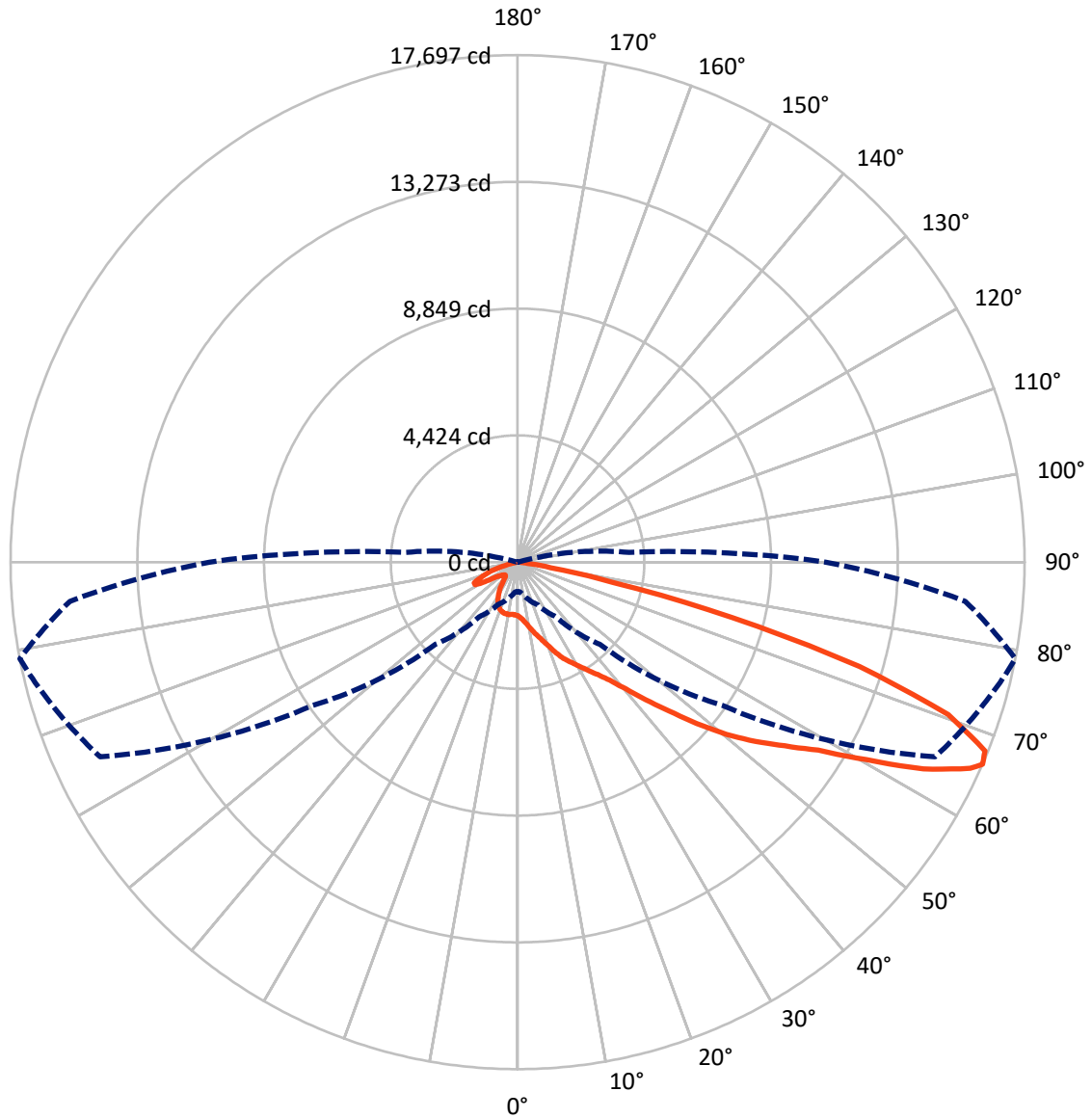
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1129.7	0.0	1129.7
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	13915.3	0.0	13915.3
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	15045.0	0.0	15045.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.0	1.2
10°-20°	487.2	3.2
20°-30°	809.3	5.4
30°-40°	1390.1	9.2
40°-50°	2518.4	16.7
50°-60°	3980.8	26.5
60°-70°	4050.8	26.9
70°-80°	1544.8	10.3
80°-90°	86.6	0.6
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°	15045.0	100.0
0°-180°	15045.0	100.0

**Coefficient of Utilization**



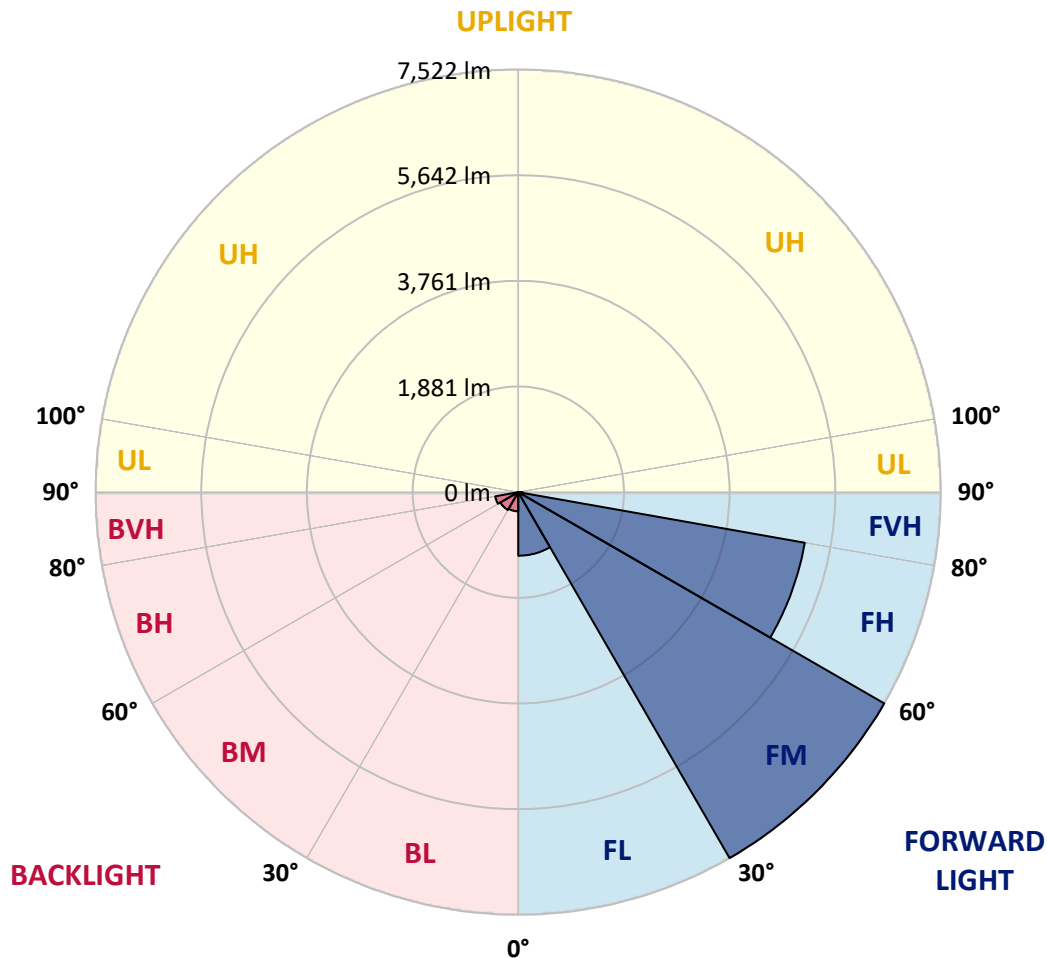
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1131.9	7.5			
FM (30°-60°)	7522.1	50.0			
FH (60°-80°)	5179.1	34.4			G3/7500
FVH (80°-90°)	82.2	0.5			G1/100
BL (0°-30°)	341.6	2.3	B1/500		
BM (30°-60°)	367.2	2.4	B1/1000		
BH (60°-80°)	416.4	2.8	B1/500		G1/500
BVH (80°-90°)	4.4	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8
2.5°	2120.0	2117.6	2108.4	2092.1	2071.2	2064.3	2034.1	1992.4	1969.2	1943.7	1932.1
5°	2266.1	2254.5	2282.3	2270.7	2275.4	2219.7	2182.6	2152.4	2064.3	2029.5	1973.8
7.5°	2298.5	2310.1	2307.8	2326.4	2344.9	2365.8	2340.3	2296.2	2208.1	2157.1	2096.8
10°	2298.5	2293.9	2312.5	2338.0	2391.3	2437.7	2507.3	2449.3	2382.0	2321.7	2212.7
12.5°	2256.8	2249.8	2268.4	2321.7	2416.8	2511.9	2588.5	2644.1	2549.0	2500.3	2358.9
15°	2129.2	2122.3	2198.8	2293.9	2419.2	2574.6	2734.6	2825.1	2760.1	2683.6	2525.9
17.5°	1971.5	1980.8	2062.0	2219.7	2419.2	2604.7	2808.8	3006.0	2996.7	2899.3	2734.6
20°	1918.2	1925.1	2006.3	2120.0	2347.3	2625.6	2924.8	3203.1	3258.8	3142.8	2927.1
22.5°	2020.2	2013.3	2020.2	2089.8	2298.5	2607.0	3001.3	3428.1	3527.8	3437.4	3179.9
25°	2368.1	2363.5	2305.5	2198.8	2270.7	2565.3	3040.8	3576.6	3806.2	3722.7	3384.0
27.5°	2878.4	2859.9	2769.4	2546.7	2400.6	2590.8	3105.7	3720.4	4049.7	3954.6	3567.3
30°	3425.8	3381.7	3263.4	2985.1	2736.9	2685.9	3142.8	3827.1	4321.1	4200.5	3727.3
32.5°	3803.9	3861.8	3824.7	3541.8	3161.4	2906.2	3203.1	3961.6	4571.6	4492.7	4001.0
35°	4388.4	4455.6	4300.2	4049.7	3667.0	3256.5	3330.7	4070.6	4956.6	4824.4	4256.1
37.5°	5125.9	5177.0	5065.6	4590.1	4186.6	3687.9	3592.8	4297.9	5288.3	5225.7	4583.2
40°	5497.0	5742.9	5585.2	5156.1	4722.3	4290.9	4026.5	4564.6	5865.8	5814.8	5035.5
42.5°	6009.6	6132.6	6051.4	5733.6	5281.3	4935.7	4562.3	5084.2	6566.3	6566.3	5647.8
45°	6552.4	6557.0	6552.4	6292.6	5891.3	5712.7	5286.0	5735.9	7320.1	7403.6	6380.7
47.5°	6997.7	7136.9	7125.3	6969.9	6659.1	6591.8	6009.6	6478.2	8266.4	8412.6	7095.1
50°	7227.3	7382.7	7429.1	7510.3	7496.4	7637.9	6800.6	7338.7	9082.9	9442.4	8013.6
52.5°	7164.7	7176.3	7461.6	7781.7	8291.9	8688.6	7753.8	8315.1	10038.5	10393.3	8723.4
55°	6652.1	6608.0	7194.9	7561.3	8616.7	9331.0	9073.6	9532.8	10783.0	11323.4	9456.3
57.5°	5527.2	5538.8	6081.5	6826.1	8375.4	9586.2	10483.8	11124.0	11826.7	12371.8	10486.1
60°	3815.5	3801.5	4409.2	5269.7	6958.3	9110.7	11295.6	13185.9	13223.0	13995.4	12334.7
62.5°	2145.5	2150.1	2611.7	3346.9	4868.5	7445.4	11256.2	15375.5	15217.7	15895.0	14436.1
65°	1215.4	1245.5	1563.3	1983.1	2915.5	4998.4	9681.3	16247.6	16755.5	17358.6	15711.8
66°	1027.5	1048.4	1319.8	1637.5	2326.4	4054.4	8714.1	16078.2	17238.0	17697.2	15686.3
67.5°	795.6	823.4	1050.7	1298.9	1707.1	2806.5	7013.9	15236.3	17326.1	17595.2	15243.3
70°	545.1	563.6	737.6	985.8	1166.7	1435.7	4193.5	12596.8	15721.1	15948.4	13248.6
72.5°	382.7	392.0	517.2	746.9	897.6	821.1	2080.5	8962.3	12030.9	12473.9	10305.2
75°	276.0	285.3	354.9	535.8	700.5	538.1	953.3	5724.3	7378.1	7726.0	6206.8
77.5°	199.5	211.1	241.2	345.6	508.0	378.1	468.5	2989.7	3479.1	3418.8	2669.7
80°	120.6	132.2	178.6	222.7	371.1	266.7	257.5	1247.9	1233.9	1171.3	839.6
82.5°	55.7	64.9	95.1	150.8	259.8	185.6	122.9	445.3	389.7	357.2	236.6
85°	16.2	20.9	55.7	113.7	132.2	90.5	74.2	153.1	160.0	136.8	78.9
87.5°	0.0	2.3	25.5	27.8	39.4	30.2	27.8	39.4	74.2	60.3	25.5
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°	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8
2.5°	1890.3	1874.1	1834.7	1774.4	1721.0	1693.2	1653.7	1619.0	1600.4	1598.1	1595.8
5°	1936.7	1892.7	1797.6	1688.5	1607.4	1519.2	1458.9	1414.8	1373.1	1333.7	1356.9
7.5°	1999.3	1929.8	1774.4	1632.9	1456.6	1342.9	1236.3	1173.6	1136.5	1101.7	1097.1
10°	2096.8	2008.6	1758.1	1503.0	1301.2	1134.2	1025.2	934.7	883.7	823.4	846.6
12.5°	2229.0	2071.2	1697.8	1384.7	1124.9	948.6	793.2	647.1	565.9	503.3	505.6
15°	2361.2	2154.7	1642.2	1240.9	964.9	732.9	505.6	405.9	382.7	368.8	373.4
17.5°	2491.1	2222.0	1556.3	1094.8	781.6	466.2	368.8	347.9	336.3	322.4	322.4
20°	2648.8	2266.1	1449.6	960.2	538.1	345.6	315.4	301.5	283.0	264.4	266.7
22.5°	2801.9	2303.2	1326.7	788.6	361.8	299.2	264.4	245.9	229.6	211.1	211.1
25°	2954.9	2314.8	1166.7	565.9	292.2	238.9	206.4	180.9	164.7	148.4	150.8
27.5°	3059.3	2242.9	1015.9	361.8	234.3	180.9	143.8	122.9	109.0	92.8	92.8
30°	3119.6	2110.7	853.5	255.1	176.3	122.9	85.8	64.9	51.0	39.4	37.1
32.5°	3179.9	2004.0	670.3	194.8	116.0	64.9	32.5	11.6	0.0	0.0	0.0
35°	3300.5	1883.4	450.0	109.0	39.4	2.3	0.0	0.0	0.0	0.0	0.0
37.5°	3377.1	1716.4	206.4	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3569.6	1632.9	51.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3882.7	1574.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4226.0	1551.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4682.9	1614.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5165.4	1783.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5694.2	1943.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6155.8	2136.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7004.7	2590.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8528.5	3483.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10244.9	4147.1	25.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10873.5	4130.9	44.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	10762.1	3903.6	44.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10184.6	3467.5	39.4	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8746.5	2864.5	39.4	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6668.3	2231.3	37.1	9.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	4024.2	1187.5	30.2	11.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1602.7	417.5	23.2	9.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	433.7	125.2	13.9	9.3	7.0	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	113.7	46.4	11.6	9.3	4.6	2.3	0.0	0.0	0.0	0.0	0.0
85°	44.1	18.6	9.3	7.0	7.0	4.6	2.3	0.0	0.0	0.0	0.0
87.5°	13.9	7.0	7.0	4.6	4.6	2.3	2.3	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)