

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: P481609

Luminaire Tested: **IFLD-M-SA4B-730-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481609  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-730-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (64) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

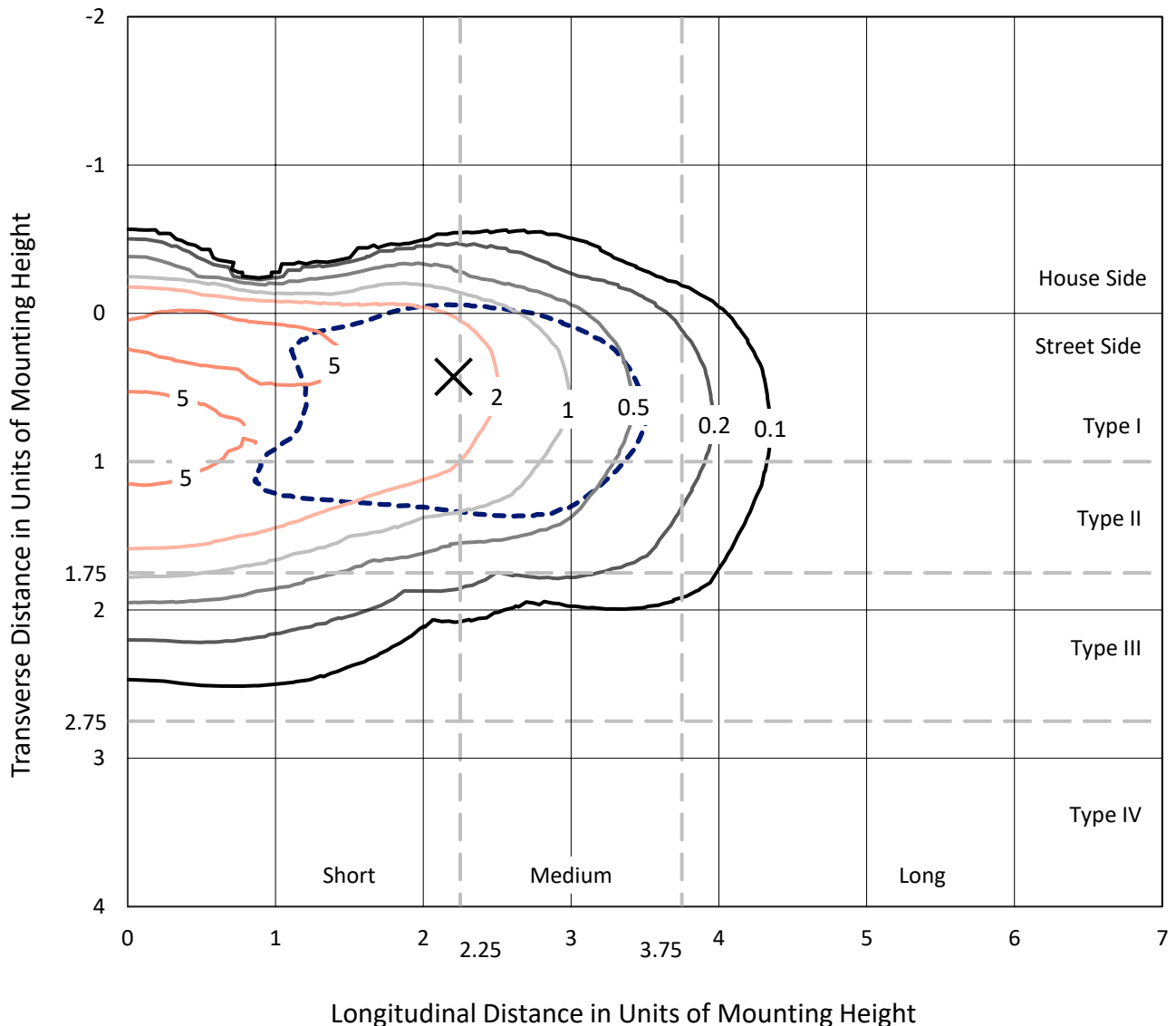
Lumens per Lamp: N/A  
Luminaire Lumens: 14977.1 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 166.1  
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

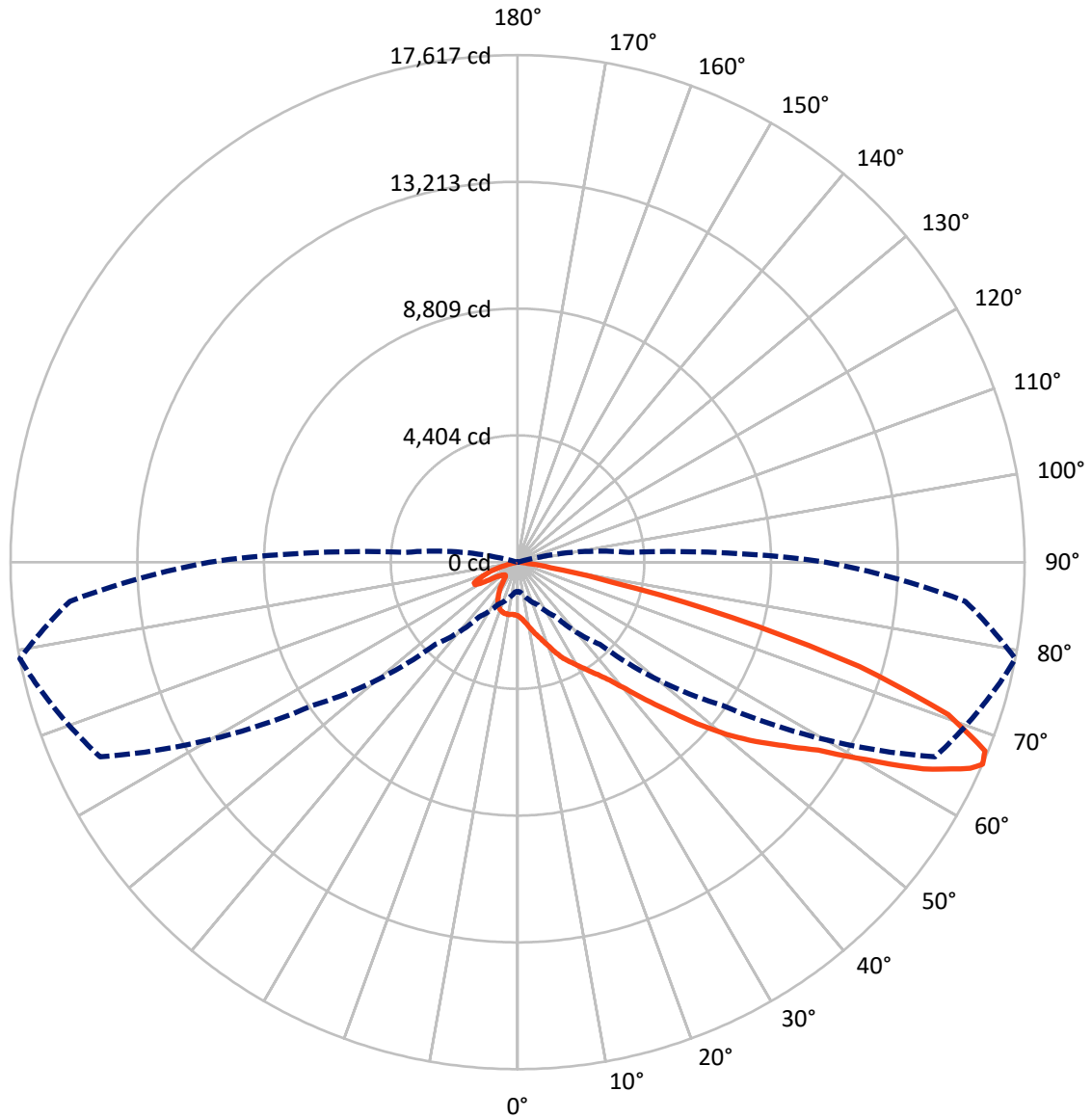
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7 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	1124.6	0.0	1124.6
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	13852.6	0.0	13852.6
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	14977.1	0.0	14977.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.2	1.2
10°-20°	485.0	3.2
20°-30°	805.7	5.4
30°-40°	1383.9	9.2
40°-50°	2507.0	16.7
50°-60°	3962.9	26.5
60°-70°	4032.5	26.9
70°-80°	1537.8	10.3
80°-90°	86.2	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°	14977.1	100.0
0°-180°	14977.1	100.0

**Coefficient of Utilization**



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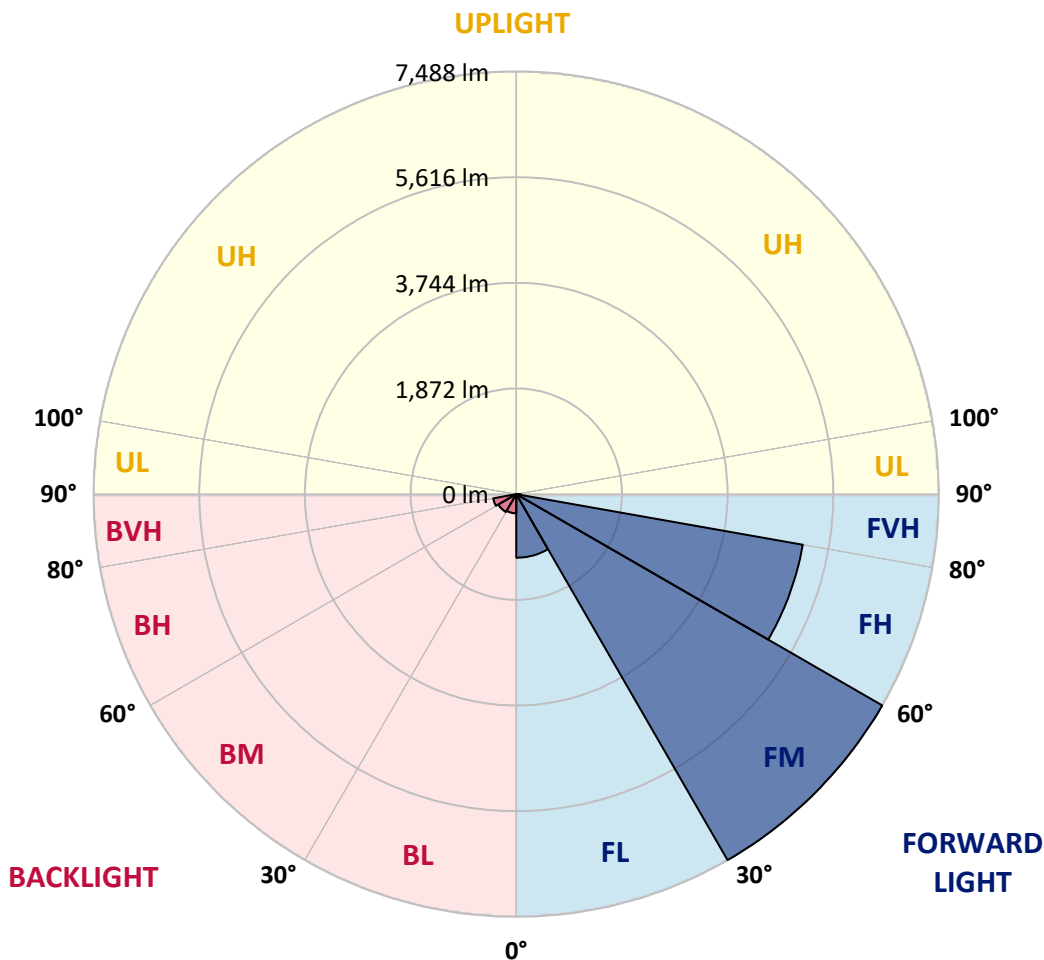
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1126.8	7.5			
FM (30°-60°)	7488.2	50.0			
FH (60°-80°)	5155.8	34.4			G3/7500
FVH (80°-90°)	81.8	0.5			G1/100
BL (0°-30°)	340.1	2.3	B1/500		
BM (30°-60°)	365.5	2.4	B1/1000		
BH (60°-80°)	414.6	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°	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3
2.5°	2110.4	2108.1	2098.9	2082.7	2061.9	2055.0	2025.0	1983.4	1960.3	1934.9	1923.4
5°	2255.9	2244.3	2272.0	2260.5	2265.1	2209.7	2172.7	2142.7	2055.0	2020.3	1964.9
7.5°	2288.2	2299.7	2297.4	2315.9	2334.4	2355.1	2329.7	2285.9	2198.1	2147.3	2087.3
10°	2288.2	2283.6	2302.0	2327.4	2380.5	2426.7	2496.0	2438.3	2371.3	2311.3	2202.8
12.5°	2246.6	2239.7	2258.2	2311.3	2405.9	2500.6	2576.8	2632.2	2537.6	2489.1	2348.2
15°	2119.6	2112.7	2188.9	2283.6	2408.3	2563.0	2722.3	2812.3	2747.7	2671.5	2514.5
17.5°	1962.6	1971.9	2052.7	2209.7	2408.3	2593.0	2796.2	2992.4	2983.2	2886.2	2722.3
20°	1909.5	1916.4	1997.3	2110.4	2336.7	2613.8	2911.6	3188.7	3244.1	3128.7	2913.9
22.5°	2011.1	2004.2	2011.1	2080.4	2288.2	2595.3	2987.8	3412.7	3511.9	3421.9	3165.6
25°	2357.5	2352.8	2295.1	2188.9	2260.5	2553.7	3027.1	3560.4	3789.0	3705.9	3368.8
27.5°	2865.4	2847.0	2756.9	2535.2	2389.8	2579.1	3091.7	3703.6	4031.5	3936.8	3551.2
30°	3410.3	3366.5	3248.7	2971.6	2724.6	2673.8	3128.7	3809.8	4301.6	4181.5	3710.5
32.5°	3786.7	3844.4	3807.5	3525.8	3147.1	2893.1	3188.7	3943.7	4551.0	4472.5	3983.0
35°	4368.6	4435.5	4280.8	4031.5	3650.5	3241.8	3315.7	4052.2	4934.3	4802.7	4237.0
37.5°	5102.8	5153.6	5042.8	4569.4	4167.7	3671.3	3576.6	4278.5	5264.4	5202.1	4562.5
40°	5472.3	5717.0	5560.0	5132.8	4701.1	4271.6	4008.4	4544.0	5839.4	5788.6	5012.8
42.5°	5982.5	6104.9	6024.1	5707.8	5257.5	4913.5	4541.7	5061.3	6536.7	6536.7	5622.3
45°	6522.8	6527.5	6522.8	6264.2	5864.8	5687.0	5262.1	5710.1	7287.1	7370.2	6352.0
47.5°	6966.2	7104.7	7093.1	6938.4	6629.0	6562.1	5982.5	6448.9	8229.2	8374.6	7063.1
50°	7194.7	7349.4	7395.6	7476.4	7462.6	7603.4	6769.9	7305.6	9041.9	9399.8	7977.5
52.5°	7132.4	7143.9	7427.9	7746.6	8254.6	8649.4	7718.9	8277.6	9993.2	10346.5	8684.0
55°	6622.1	6578.2	7162.4	7527.2	8577.8	9289.0	9032.7	9489.9	10734.4	11272.4	9413.7
57.5°	5502.3	5513.8	6054.1	6795.3	8337.7	9543.0	10436.5	11073.8	11773.4	12316.0	10438.8
60°	3798.3	3784.4	4389.3	5246.0	6926.9	9069.6	11244.7	13126.5	13163.4	13932.3	12279.1
62.5°	2135.8	2140.4	2599.9	3331.8	4846.5	7411.8	11205.4	15306.1	15149.1	15823.4	14371.0
65°	1209.9	1239.9	1556.2	1974.2	2902.4	4975.8	9637.6	16174.3	16680.0	17280.3	15640.9
66°	1022.9	1043.7	1313.8	1630.1	2315.9	4036.1	8674.8	16005.8	17160.2	17617.4	15615.5
67.5°	792.0	819.7	1046.0	1293.0	1699.4	2793.9	6982.3	15167.6	17248.0	17515.8	15174.5
70°	542.6	561.1	734.3	981.3	1161.4	1429.3	4174.6	12540.0	15650.2	15876.5	13188.8
72.5°	381.0	390.2	514.9	743.5	893.6	817.4	2071.1	8921.9	11976.6	12417.6	10258.7
75°	274.8	284.0	353.3	533.4	697.3	535.7	949.0	5698.5	7344.8	7691.2	6178.8
77.5°	198.6	210.1	240.1	344.0	505.7	376.4	466.4	2976.3	3463.5	3403.4	2657.6
80°	120.1	131.6	177.8	221.7	369.4	265.5	256.3	1242.2	1228.4	1166.0	835.8
82.5°	55.4	64.7	94.7	150.1	258.6	184.7	122.4	443.3	387.9	355.6	235.5
85°	16.2	20.8	55.4	113.1	131.6	90.0	73.9	152.4	159.3	136.2	78.5
87.5°	0.0	2.3	25.4	27.7	39.3	30.0	27.7	39.3	73.9	60.0	25.4
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°	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3
2.5°	1881.8	1865.6	1826.4	1766.4	1713.3	1685.5	1646.3	1611.7	1593.2	1590.9	1588.6
5°	1928.0	1884.1	1789.4	1680.9	1600.1	1512.4	1452.3	1408.5	1366.9	1327.7	1350.7
7.5°	1990.3	1921.1	1766.4	1625.5	1450.0	1336.9	1230.7	1168.3	1131.4	1096.8	1092.1
10°	2087.3	1999.6	1750.2	1496.2	1295.3	1129.1	1020.6	930.5	879.7	819.7	842.8
12.5°	2218.9	2061.9	1690.2	1378.5	1119.8	944.4	789.7	644.2	563.4	501.0	503.4
15°	2350.5	2145.0	1634.7	1235.3	960.5	729.6	503.4	404.1	381.0	367.1	371.7
17.5°	2479.8	2212.0	1549.3	1089.8	778.1	464.1	367.1	346.3	334.8	320.9	320.9
20°	2636.8	2255.9	1443.1	955.9	535.7	344.0	314.0	300.2	281.7	263.2	265.5
22.5°	2789.2	2292.8	1320.7	785.0	360.2	297.9	263.2	244.8	228.6	210.1	210.1
25°	2941.6	2304.3	1161.4	563.4	290.9	237.8	205.5	180.1	163.9	147.8	150.1
27.5°	3045.5	2232.8	1011.3	360.2	233.2	180.1	143.2	122.4	108.5	92.4	92.4
30°	3105.6	2101.2	849.7	254.0	175.5	122.4	85.4	64.7	50.8	39.3	36.9
32.5°	3165.6	1994.9	667.3	194.0	115.4	64.7	32.3	11.5	0.0	0.0	0.0
35°	3285.7	1874.9	447.9	108.5	39.3	2.3	0.0	0.0	0.0	0.0	0.0
37.5°	3361.9	1708.6	205.5	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3553.5	1625.5	50.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3865.2	1567.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4206.9	1544.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4661.8	1607.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5142.1	1775.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5668.5	1934.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6128.0	2126.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6973.1	2579.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8490.1	3468.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10198.7	4128.4	25.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10824.4	4112.3	43.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	10713.6	3886.0	43.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10138.7	3451.9	39.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8707.1	2851.6	39.3	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6638.3	2221.2	36.9	9.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	4006.1	1182.2	30.0	11.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1595.5	415.6	23.1	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	431.8	124.7	13.9	9.2	6.9	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	113.1	46.2	11.5	9.2	4.6	2.3	0.0	0.0	0.0	0.0	0.0
85°	43.9	18.5	9.2	6.9	6.9	4.6	2.3	0.0	0.0	0.0	0.0
87.5°	13.9	6.9	6.9	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)