

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: P481669

Luminaire Tested: **IFLD-S-SA3D-740-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481669  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-740-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

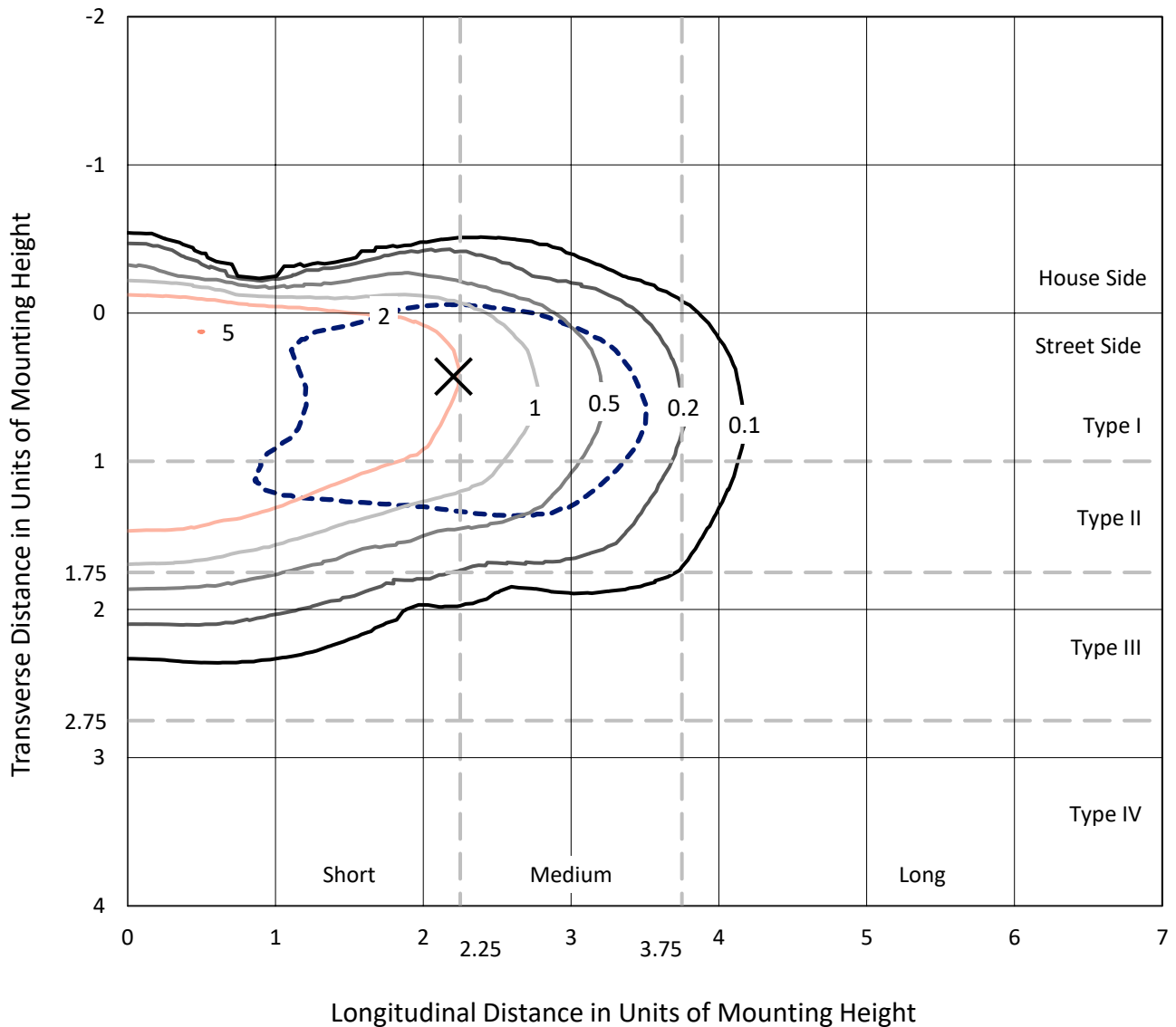
Lumens per Lamp: N/A  
Luminaire Lumens: 16784.3 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 184.1  
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

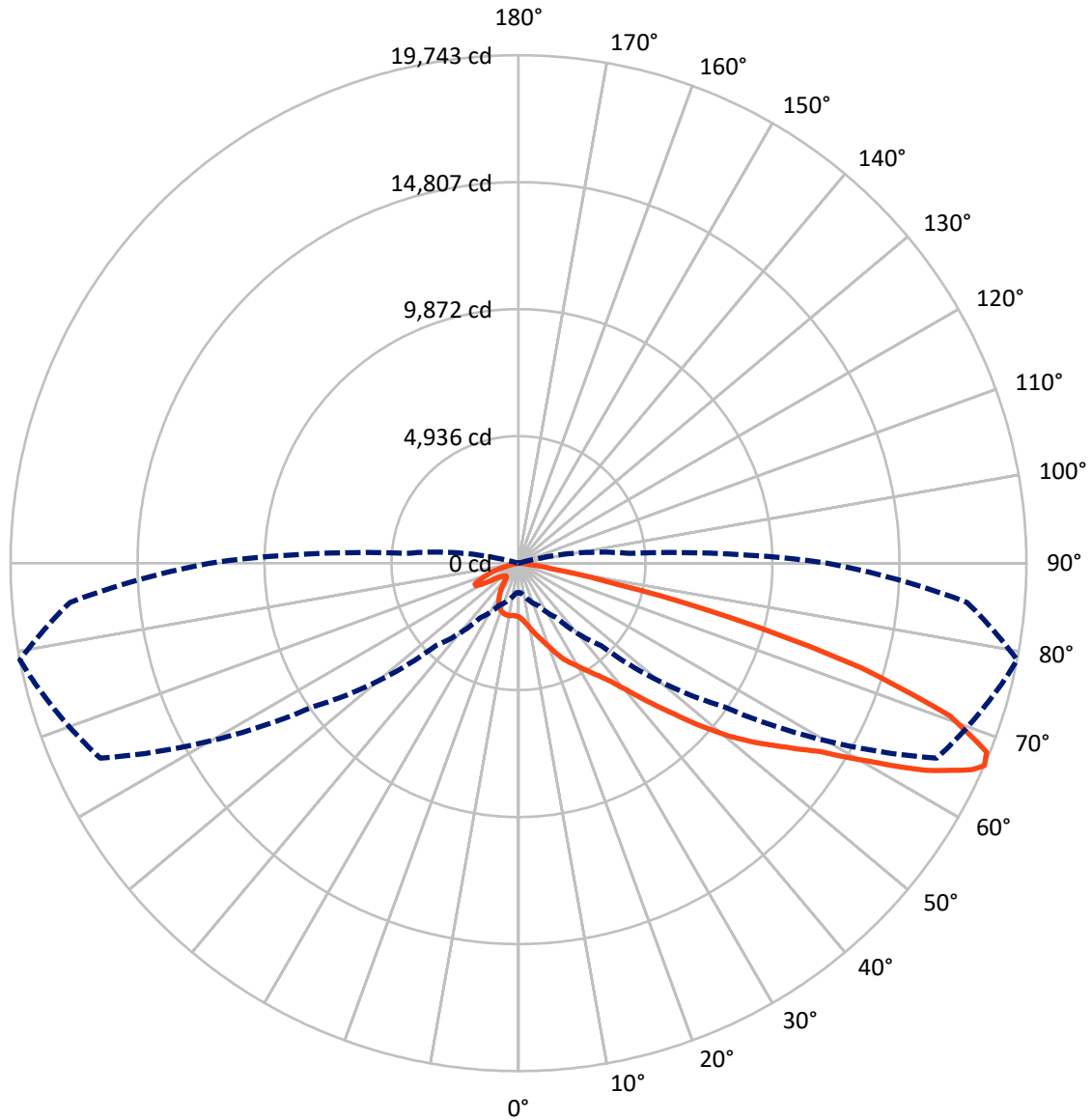
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Short - N/A

REPORT NUMBER: P481669  
CATALOG NUMBER: IFLD-S-SA3D-740-U-T2-HSS

### 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	1260.3	0.0	1260.3
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	15524.0	0.0	15524.0
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	16784.3	0.0	16784.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.5	1.2
10°-20°	543.5	3.2
20°-30°	902.9	5.4
30°-40°	1550.8	9.2
40°-50°	2809.5	16.7
50°-60°	4441.0	26.5
60°-70°	4519.1	26.9
70°-80°	1723.3	10.3
80°-90°	96.6	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°	16784.3	100.0
0°-180°	16784.3	100.0

**Coefficient of Utilization**

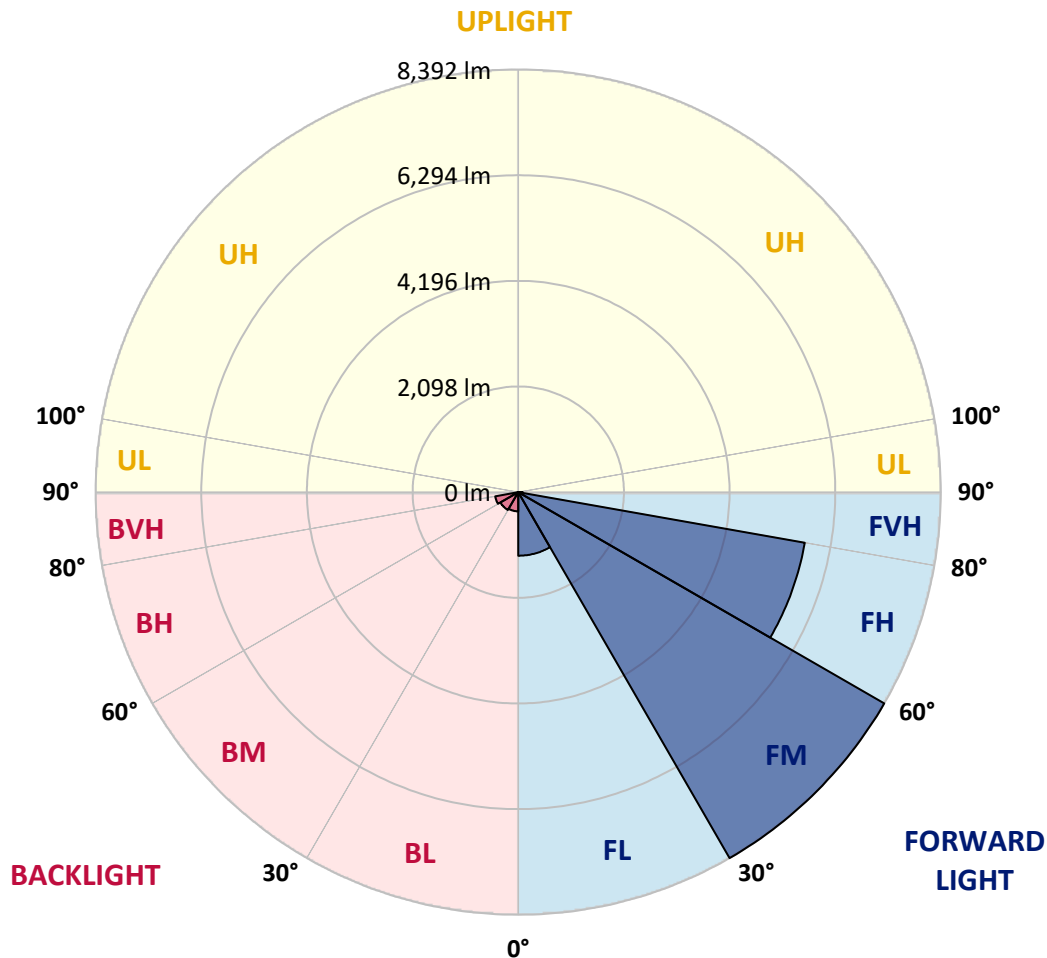


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1262.7	7.5			
FM (30°-60°)	8391.8	50.0			
FH (60°-80°)	5777.8	34.4			G3/7500
FVH (80°-90°)	91.7	0.5			G1/100
BL (0°-30°)	381.1	2.3	B1/500		
BM (30°-60°)	409.6	2.4	B1/1000		
BH (60°-80°)	464.6	2.8	B1/500		G1/500
BVH (80°-90°)	4.9	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°	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2
2.5°	2365.0	2362.4	2352.1	2334.0	2310.7	2302.9	2269.3	2222.7	2196.8	2168.4	2155.4
5°	2528.1	2515.1	2546.2	2533.2	2538.4	2476.3	2434.9	2401.3	2302.9	2264.1	2202.0
7.5°	2564.3	2577.2	2574.6	2595.3	2616.0	2639.3	2610.9	2561.7	2463.4	2406.4	2339.2
10°	2564.3	2559.1	2579.8	2608.3	2667.8	2719.5	2797.2	2732.5	2657.4	2590.2	2468.5
12.5°	2517.7	2509.9	2530.6	2590.2	2696.2	2802.3	2887.7	2949.8	2843.7	2789.4	2631.6
15°	2375.4	2367.6	2453.0	2559.1	2698.8	2872.2	3050.7	3151.7	3079.2	2993.8	2817.9
17.5°	2199.4	2209.8	2300.3	2476.3	2698.8	2905.8	3133.5	3353.5	3343.1	3234.5	3050.7
20°	2139.9	2147.7	2238.2	2365.0	2618.6	2929.1	3262.9	3573.4	3635.5	3506.1	3265.5
22.5°	2253.8	2246.0	2253.8	2331.4	2564.3	2908.4	3348.3	3824.4	3935.7	3834.8	3547.6
25°	2641.9	2636.7	2572.0	2453.0	2533.2	2861.8	3392.3	3990.0	4246.2	4153.0	3775.3
27.5°	3211.2	3190.5	3089.6	2841.1	2678.1	2890.3	3464.7	4150.5	4517.9	4411.8	3979.7
30°	3821.8	3772.7	3640.7	3330.2	3053.3	2996.4	3506.1	4269.5	4820.6	4686.1	4158.2
32.5°	4243.6	4308.3	4266.9	3951.2	3526.9	3242.2	3573.4	4419.6	5100.1	5012.1	4463.5
35°	4895.7	4970.7	4797.3	4517.9	4090.9	3632.9	3715.7	4541.2	5529.6	5382.1	4748.2
37.5°	5718.5	5775.4	5651.2	5120.8	4670.6	4114.2	4008.1	4794.8	5899.6	5829.8	5113.0
40°	6132.5	6406.8	6230.9	5752.2	5268.3	4787.0	4492.0	5092.3	6544.0	6487.0	5617.6
42.5°	6704.4	6841.5	6751.0	6396.5	5891.9	5506.3	5089.7	5671.9	7325.4	7325.4	6300.7
45°	7309.9	7315.0	7309.9	7020.1	6572.4	6373.2	5897.1	6399.0	8166.4	8259.5	7118.4
47.5°	7806.7	7961.9	7949.0	7775.6	7428.9	7353.9	6704.4	7227.1	9222.1	9385.1	7915.4
50°	8062.9	8236.2	8288.0	8378.5	8363.0	8520.8	7586.7	8187.1	10132.9	10534.0	8940.0
52.5°	7993.0	8005.9	8324.2	8681.3	9250.5	9693.0	8650.2	9276.4	11199.0	11594.9	9731.8
55°	7421.1	7372.0	8026.6	8435.5	9612.8	10409.8	10122.6	10634.9	12029.6	12632.5	10549.5
57.5°	6166.2	6179.1	6784.6	7615.2	9343.7	10694.4	11695.8	12410.0	13194.0	13802.1	11698.4
60°	4256.5	4241.0	4919.0	5878.9	7762.7	10164.0	12601.4	14710.3	14751.7	15613.4	13760.7
62.5°	2393.5	2398.7	2913.6	3733.9	5431.3	8306.1	12557.5	17153.0	16977.0	17732.6	16105.0
65°	1355.9	1389.5	1744.0	2212.4	3252.6	5576.2	10800.5	18125.9	18692.6	19365.3	17528.2
66°	1146.3	1169.6	1472.3	1826.8	2595.3	4523.1	9721.5	17937.0	19230.8	19743.1	17499.7
67.5°	887.5	918.6	1172.2	1449.0	1904.4	3131.0	7824.8	16997.7	19329.1	19629.3	17005.5
70°	608.1	628.8	822.8	1099.7	1301.5	1601.7	4678.3	14053.1	17538.5	17792.1	14780.2
72.5°	426.9	437.3	577.0	833.2	1001.4	916.0	2321.0	9998.3	13421.7	13915.9	11496.5
75°	307.9	318.3	395.9	597.7	781.4	600.3	1063.5	6386.1	8231.0	8619.2	6924.3
77.5°	222.5	235.5	269.1	385.5	566.7	421.8	522.7	3335.4	3881.3	3814.1	2978.3
80°	134.6	147.5	199.2	248.4	414.0	297.6	287.2	1392.1	1376.6	1306.7	936.7
82.5°	62.1	72.5	106.1	168.2	289.8	207.0	137.1	496.8	434.7	398.5	263.9
85°	18.1	23.3	62.1	126.8	147.5	100.9	82.8	170.8	178.5	152.7	88.0
87.5°	0.0	2.6	28.5	31.1	44.0	33.6	31.1	44.0	82.8	67.3	28.5
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°	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2
2.5°	2108.9	2090.8	2046.8	1979.5	1920.0	1888.9	1844.9	1806.1	1785.4	1782.8	1780.2
5°	2160.6	2111.5	2005.4	1883.7	1793.2	1694.9	1627.6	1578.4	1531.8	1487.8	1513.7
7.5°	2230.5	2152.9	1979.5	1821.6	1625.0	1498.2	1379.2	1309.3	1267.9	1229.1	1223.9
10°	2339.2	2240.8	1961.4	1676.7	1451.6	1265.3	1143.7	1042.8	985.9	918.6	944.5
12.5°	2486.6	2310.7	1894.1	1544.8	1255.0	1058.3	884.9	721.9	631.4	561.5	564.1
15°	2634.1	2403.8	1832.0	1384.3	1076.4	817.7	564.1	452.8	426.9	411.4	416.6
17.5°	2779.0	2478.9	1736.3	1221.3	872.0	520.1	411.4	388.1	375.2	359.7	359.7
20°	2955.0	2528.1	1617.2	1071.3	600.3	385.5	351.9	336.4	315.7	295.0	297.6
22.5°	3125.8	2569.5	1480.1	879.8	403.7	333.8	295.0	274.3	256.2	235.5	235.5
25°	3296.6	2582.4	1301.5	631.4	326.0	266.5	230.3	201.8	183.7	165.6	168.2
27.5°	3413.0	2502.2	1133.4	403.7	261.3	201.8	160.4	137.1	121.6	103.5	103.5
30°	3480.3	2354.7	952.2	284.6	196.7	137.1	95.7	72.5	56.9	44.0	41.4
32.5°	3547.6	2235.7	747.8	217.4	129.4	72.5	36.2	12.9	0.0	0.0	0.0
35°	3682.1	2101.1	502.0	121.6	44.0	2.6	0.0	0.0	0.0	0.0	0.0
37.5°	3767.5	1914.8	230.3	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3982.3	1821.6	56.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4331.6	1757.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4714.5	1731.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5224.3	1800.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5762.5	1989.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6352.5	2168.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6867.4	2383.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7814.4	2890.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9514.5	3886.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11429.3	4626.6	28.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12130.5	4608.5	49.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	12006.3	4354.9	49.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11362.0	3868.4	44.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9757.7	3195.6	44.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7439.2	2489.2	41.4	10.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	4489.4	1324.8	33.6	12.9	5.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1788.0	465.8	25.9	10.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	483.9	139.7	15.5	10.4	7.8	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	126.8	51.8	12.9	10.4	5.2	2.6	0.0	0.0	0.0	0.0	0.0
85°	49.2	20.7	10.4	7.8	7.8	5.2	2.6	0.0	0.0	0.0	0.0
87.5°	15.5	7.8	7.8	5.2	5.2	2.6	2.6	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)