

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: P481630

Luminaire Tested: **IFLD-S-SA3D-735-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481630  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-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**

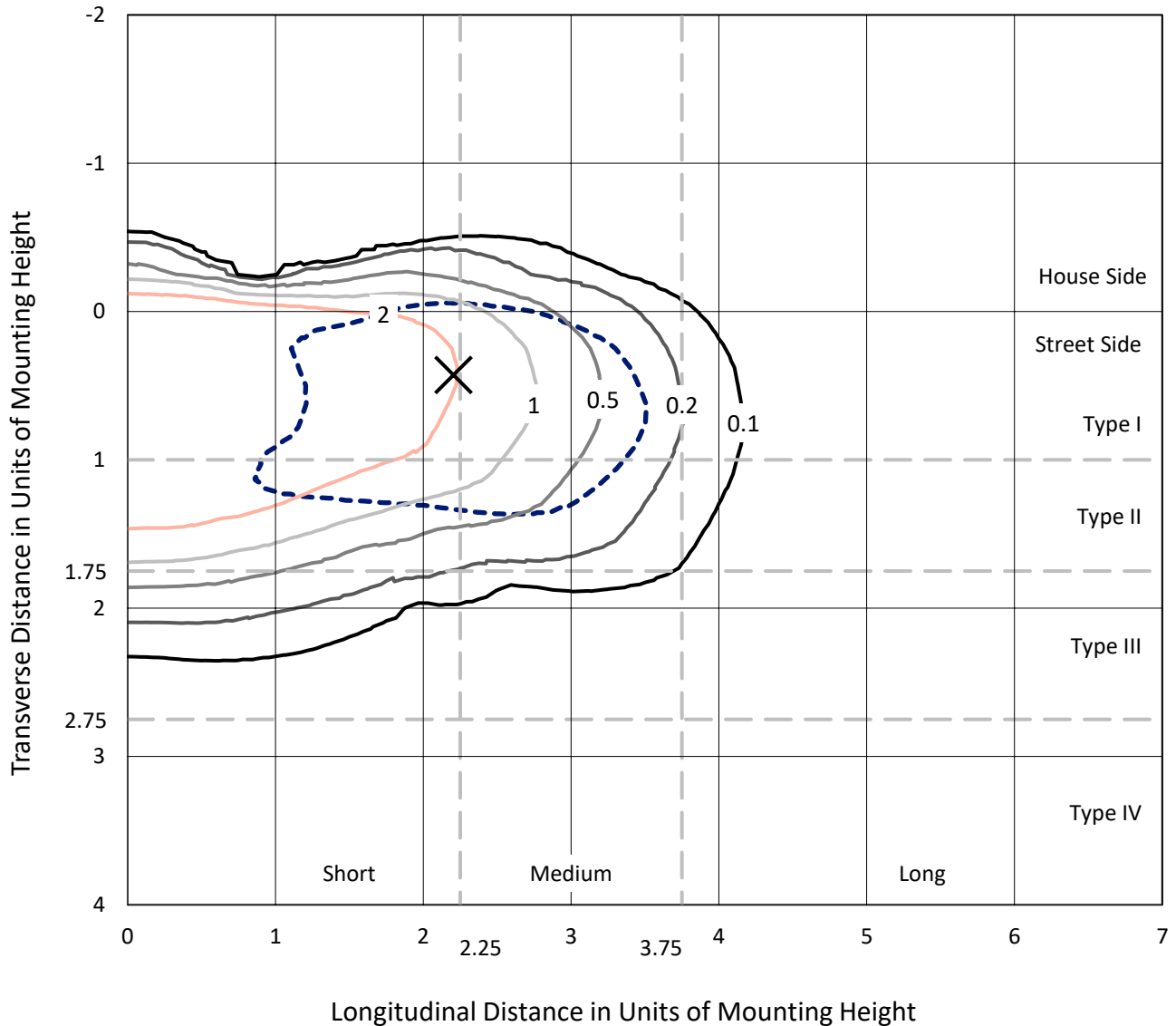
Lumens per Lamp: N/A  
Luminaire Lumens: 16554.3 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

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

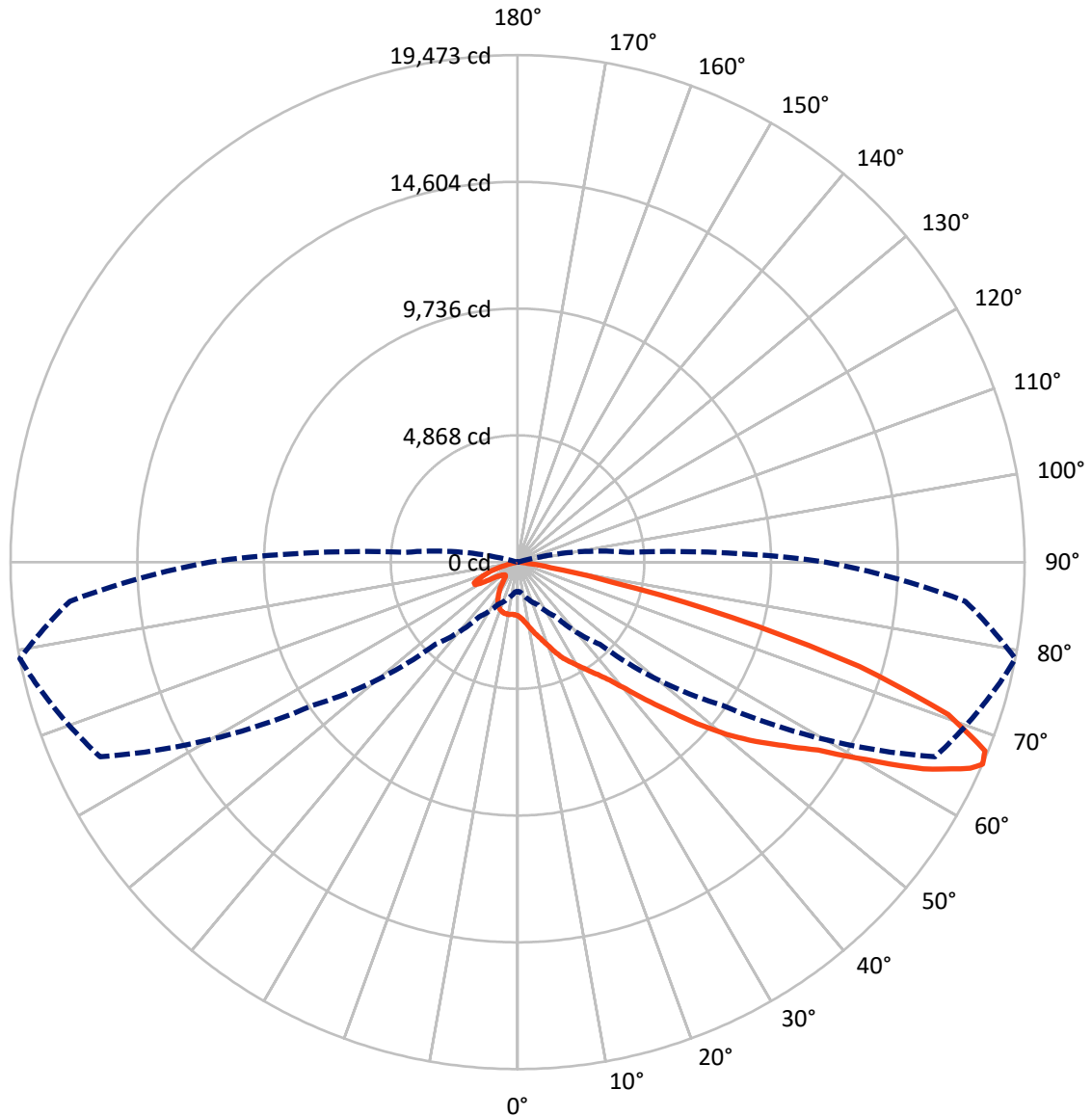
× Max cd  
 - - - 1/2 Max cd



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

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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	1243.0	0.0	1243.0
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	15311.3	0.0	15311.3
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	16554.3	0.0	16554.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.8	1.2
10°-20°	536.1	3.2
20°-30°	890.5	5.4
30°-40°	1529.6	9.2
40°-50°	2771.0	16.7
50°-60°	4380.2	26.5
60°-70°	4457.2	26.9
70°-80°	1699.7	10.3
80°-90°	95.3	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°	16554.3	100.0
0°-180°	16554.3	100.0

**Coefficient of Utilization**

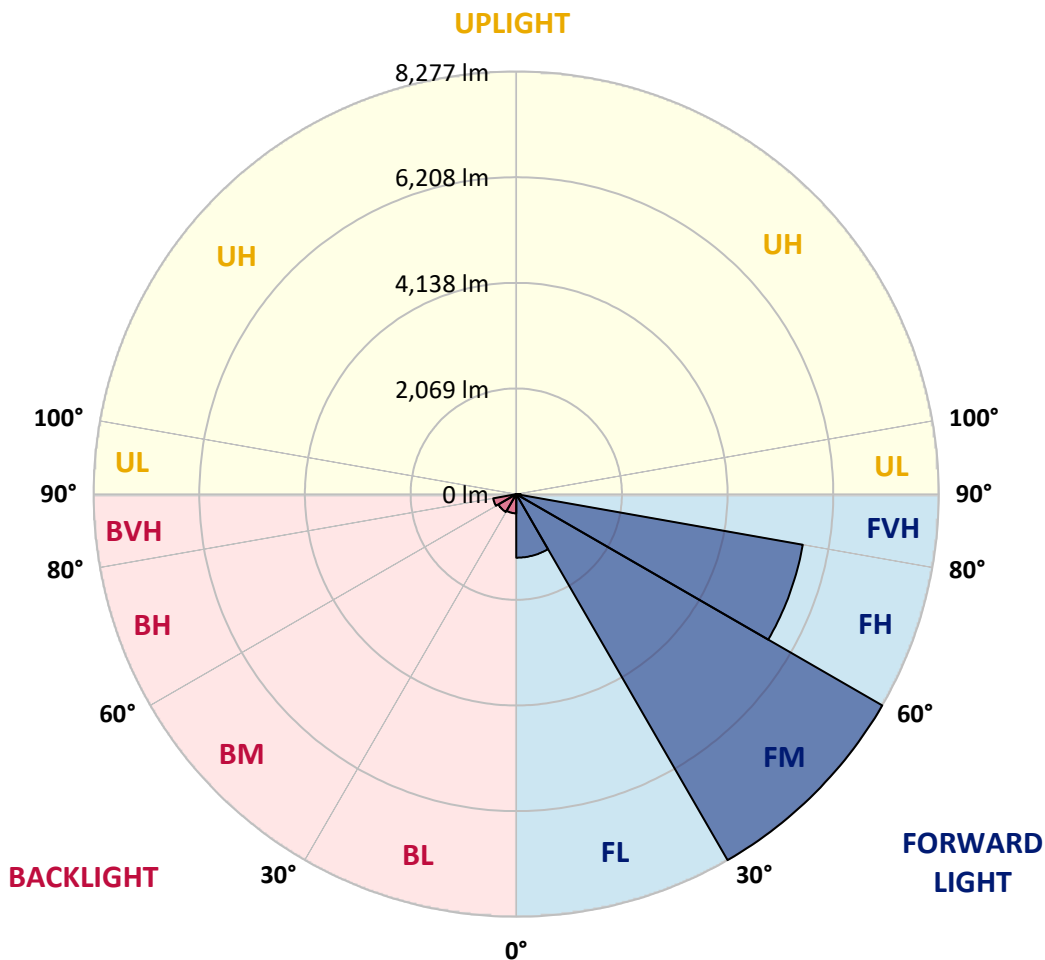


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1245.4	7.5			
FM (30°-60°)	8276.8	50.0			
FH (60°-80°)	5698.7	34.4			G3/7500
FVH (80°-90°)	90.4	0.5			G1/100
BL (0°-30°)	375.9	2.3	B1/500		
BM (30°-60°)	404.0	2.4	B1/1000		
BH (60°-80°)	458.2	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°	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6
2.5°	2332.6	2330.1	2319.9	2302.0	2279.0	2271.4	2238.2	2192.3	2166.7	2138.7	2125.9
5°	2493.4	2480.7	2511.3	2498.5	2503.6	2442.4	2401.5	2368.4	2271.4	2233.1	2171.8
7.5°	2529.1	2541.9	2539.4	2559.8	2580.2	2603.2	2575.1	2526.6	2429.6	2373.5	2307.1
10°	2529.1	2524.0	2544.5	2572.5	2631.2	2682.3	2758.8	2695.0	2621.0	2554.7	2434.7
12.5°	2483.2	2475.6	2496.0	2554.7	2659.3	2763.9	2848.2	2909.4	2804.8	2751.2	2595.5
15°	2342.8	2335.2	2419.4	2524.0	2661.9	2832.8	3008.9	3108.5	3037.0	2952.8	2779.3
17.5°	2169.3	2179.5	2268.8	2442.4	2661.9	2866.0	3090.6	3307.5	3297.3	3190.1	3008.9
20°	2110.6	2118.3	2207.6	2332.6	2582.7	2889.0	3218.2	3524.5	3585.7	3458.1	3220.8
22.5°	2222.9	2215.2	2222.9	2299.5	2529.1	2868.6	3302.4	3772.0	3881.8	3782.2	3498.9
25°	2605.7	2600.6	2536.8	2419.4	2498.5	2822.6	3345.8	3935.4	4188.0	4096.1	3723.5
27.5°	3167.2	3146.8	3047.2	2802.2	2641.4	2850.7	3417.3	4093.6	4456.0	4351.4	3925.2
30°	3769.5	3721.0	3590.8	3284.6	3011.5	2955.3	3458.1	4211.0	4754.6	4621.9	4101.2
32.5°	4185.5	4249.3	4208.4	3897.1	3478.5	3197.8	3524.5	4359.0	5030.2	4943.4	4402.4
35°	4828.6	4902.6	4731.6	4456.0	4034.9	3583.2	3664.8	4479.0	5453.9	5308.4	4683.1
37.5°	5640.2	5696.3	5573.8	5050.6	4606.6	4057.9	3953.2	4729.1	5818.8	5749.9	5043.0
40°	6048.5	6319.0	6145.5	5673.4	5196.1	4721.4	4430.5	5022.6	6454.3	6398.2	5540.6
42.5°	6612.5	6747.8	6658.5	6308.8	5811.2	5430.9	5020.0	5594.2	7225.0	7225.0	6214.4
45°	7209.7	7214.8	7209.7	6923.9	6482.4	6285.9	5816.3	6311.4	8054.5	8146.4	7020.9
47.5°	7699.7	7852.9	7840.1	7669.1	7327.1	7253.1	6612.5	7128.1	9095.7	9256.5	7806.9
50°	7952.4	8123.4	8174.4	8263.7	8248.4	8404.1	7482.8	8074.9	9994.1	10389.7	8817.6
52.5°	7883.5	7896.2	8210.2	8562.3	9123.8	9560.2	8531.7	9149.3	11045.6	11436.0	9598.5
55°	7319.5	7271.0	7916.7	8319.9	9481.1	10267.2	9983.9	10489.2	11864.8	12459.4	10405.0
57.5°	6081.7	6094.5	6691.6	7510.9	9215.7	10547.9	11535.6	12239.9	13013.2	13613.0	11538.1
60°	4198.2	4182.9	4851.6	5798.4	7656.3	10024.7	12428.8	14508.8	14549.6	15399.5	13572.1
62.5°	2360.7	2365.8	2873.7	3682.7	5356.9	8192.3	12385.4	16918.0	16744.4	17489.6	15884.4
65°	1337.3	1370.5	1720.1	2182.1	3208.0	5499.8	10652.5	17877.6	18436.5	19100.0	17288.0
66°	1130.6	1153.6	1452.2	1801.8	2559.8	4461.1	9588.3	17691.3	18967.3	19472.6	17260.0
67.5°	875.4	906.0	1156.1	1429.2	1878.4	3088.1	7717.6	16764.8	19064.3	19360.3	16772.5
70°	599.7	620.2	811.6	1084.6	1283.7	1579.8	4614.2	13860.5	17298.2	17548.3	14577.7
72.5°	421.1	431.3	569.1	821.8	987.7	903.4	2289.2	9861.4	13237.8	13725.3	11339.0
75°	303.7	313.9	390.5	589.5	770.7	592.1	1048.9	6298.6	8118.3	8501.1	6829.5
77.5°	219.5	232.2	265.4	380.3	558.9	416.0	515.5	3289.7	3828.2	3761.8	2937.5
80°	132.7	145.5	196.5	245.0	408.3	293.5	283.3	1373.0	1357.7	1288.8	923.9
82.5°	61.3	71.5	104.6	165.9	285.8	204.2	135.3	490.0	428.8	393.0	260.3
85°	17.9	23.0	61.3	125.1	145.5	99.5	81.7	168.4	176.1	150.6	86.8
87.5°	0.0	2.6	28.1	30.6	43.4	33.2	30.6	43.4	81.7	66.4	28.1
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°	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6
2.5°	2080.0	2062.1	2018.7	1952.4	1893.7	1863.0	1819.7	1781.4	1761.0	1758.4	1755.9
5°	2131.0	2082.5	1977.9	1857.9	1768.6	1671.6	1605.3	1556.8	1510.9	1467.5	1493.0
7.5°	2199.9	2123.4	1952.4	1796.7	1602.7	1477.7	1360.3	1291.4	1250.5	1212.3	1207.2
10°	2307.1	2210.1	1934.5	1653.8	1431.7	1248.0	1128.0	1028.5	972.4	906.0	931.5
12.5°	2452.6	2279.0	1868.1	1523.6	1237.8	1043.8	872.8	712.0	622.7	553.8	556.4
15°	2598.1	2370.9	1806.9	1365.4	1061.7	806.5	556.4	446.6	421.1	405.8	410.9
17.5°	2741.0	2444.9	1712.5	1204.6	860.1	513.0	405.8	382.8	370.1	354.7	354.7
20°	2914.5	2493.4	1595.1	1056.6	592.1	380.3	347.1	331.8	311.4	290.9	293.5
22.5°	3083.0	2534.3	1459.8	867.7	398.1	329.2	290.9	270.5	252.7	232.2	232.2
25°	3251.4	2547.0	1283.7	622.7	321.6	262.9	227.1	199.1	181.2	163.3	165.9
27.5°	3366.2	2467.9	1117.8	398.1	257.8	199.1	158.2	135.3	119.9	102.1	102.1
30°	3432.6	2322.4	939.2	280.7	194.0	135.3	94.4	71.5	56.1	43.4	40.8
32.5°	3498.9	2205.0	737.6	214.4	127.6	71.5	35.7	12.8	0.0	0.0	0.0
35°	3631.7	2072.3	495.1	119.9	43.4	2.6	0.0	0.0	0.0	0.0	0.0
37.5°	3715.9	1888.6	227.1	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3927.7	1796.7	56.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4272.2	1732.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4650.0	1707.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5152.7	1776.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5683.6	1962.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6265.4	2138.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6773.3	2350.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7707.4	2850.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9384.1	3833.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11272.7	4563.2	28.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11964.3	4545.3	48.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	11841.8	4295.2	48.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11206.3	3815.4	43.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9624.0	3151.9	43.4	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7337.3	2455.1	40.8	10.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	4427.9	1306.7	33.2	12.8	5.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1763.5	459.4	25.5	10.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	477.2	137.8	15.3	10.2	7.7	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	125.1	51.0	12.8	10.2	5.1	2.6	0.0	0.0	0.0	0.0	0.0
85°	48.5	20.4	10.2	7.7	7.7	5.1	2.6	0.0	0.0	0.0	0.0
87.5°	15.3	7.7	7.7	5.1	5.1	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)