

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: P481994

Luminaire Tested: **IFLD-S-SA6B-730-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481994  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-730-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

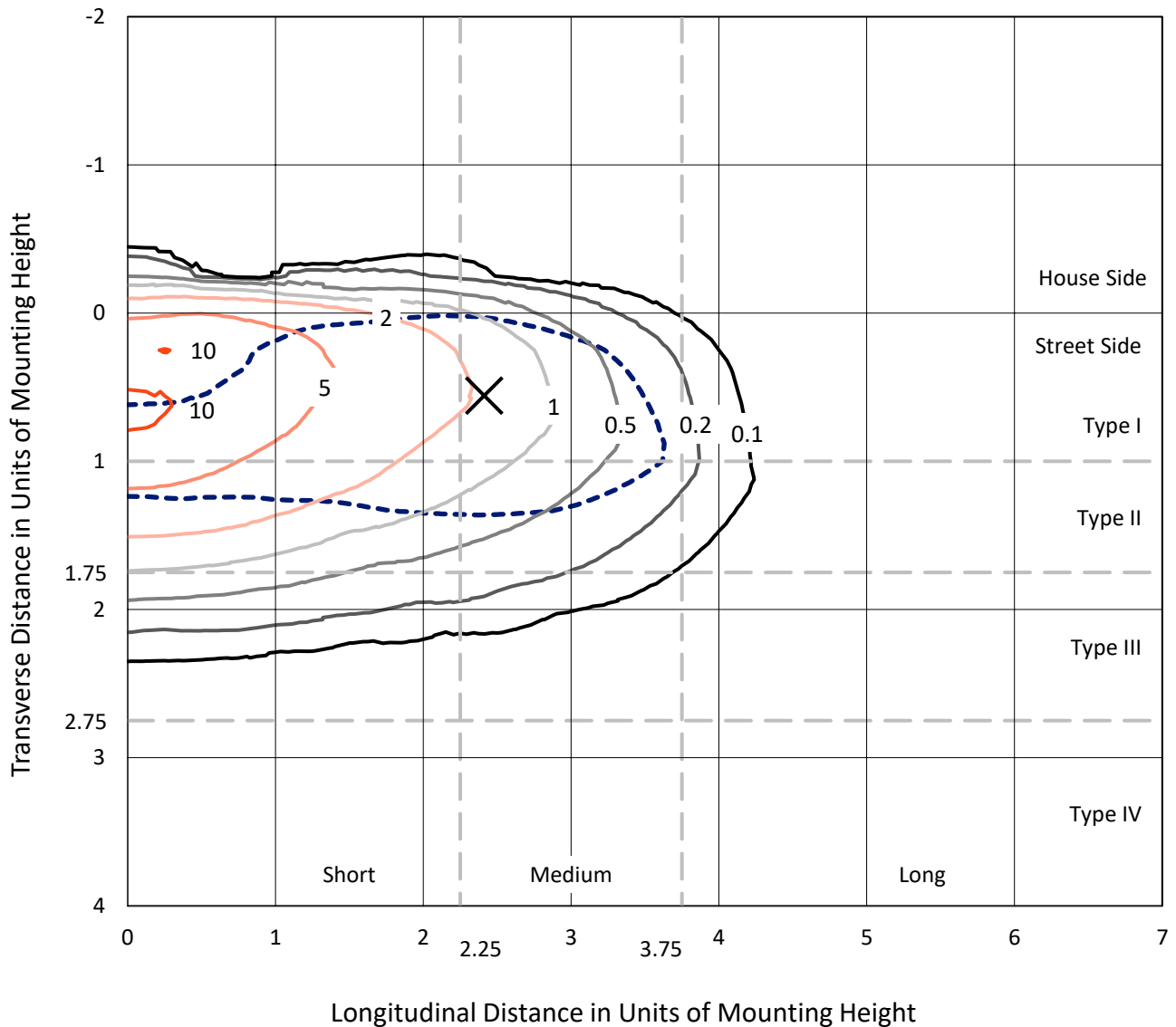
Lumens per Lamp: N/A  
Luminaire Lumens: 23897.2 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

Input Watts (W): 244.9  
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

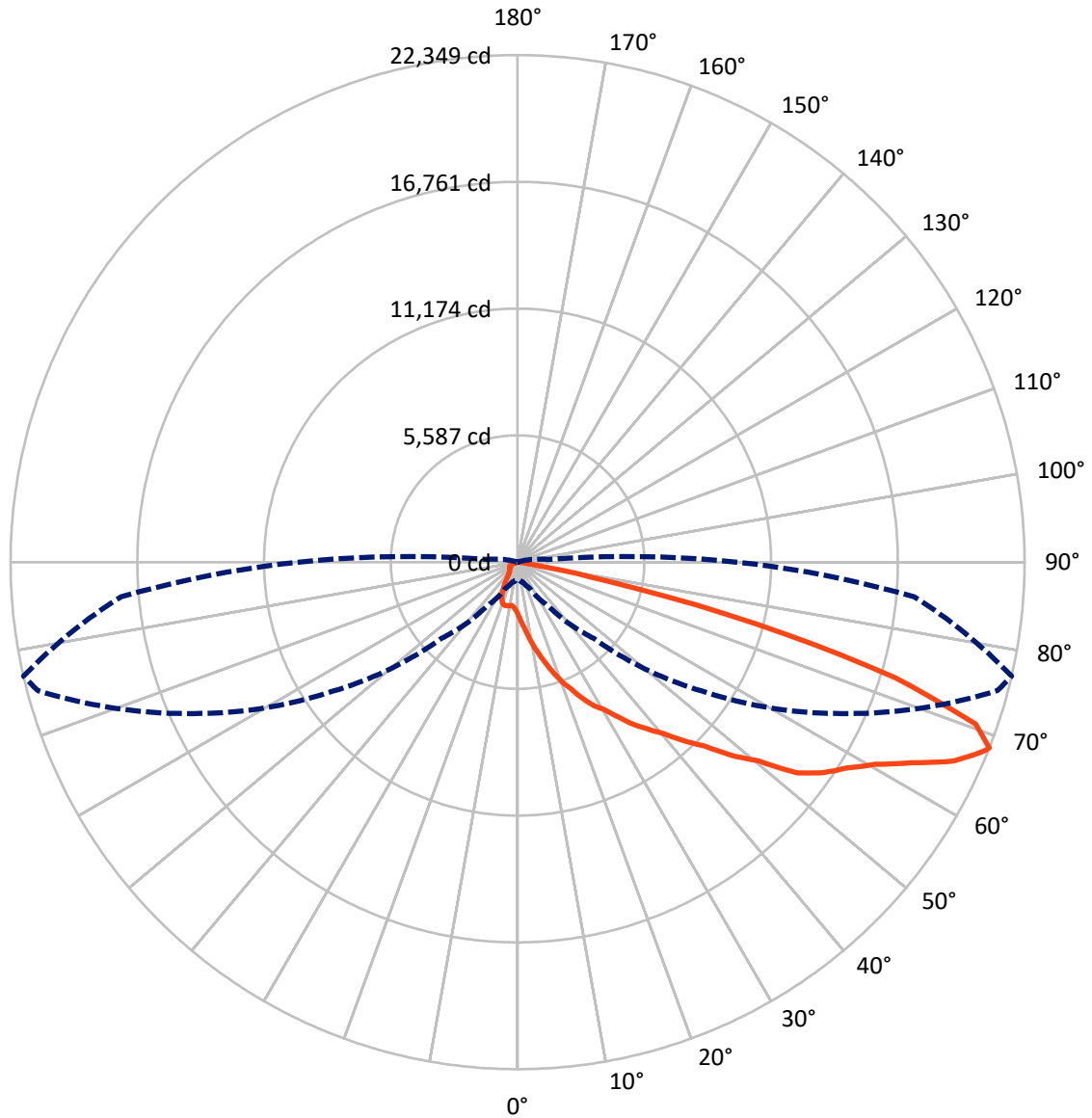
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	1083.7	0.0	1083.7
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	22813.5	0.0	22813.5
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	23897.2	0.0	23897.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.3	1.1
10°-20°	985.9	4.1
20°-30°	1910.7	8.0
30°-40°	3331.0	13.9
40°-50°	4878.6	20.4
50°-60°	5731.6	24.0
60°-70°	4839.8	20.3
70°-80°	1876.0	7.9
80°-90°	76.3	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°	23897.2	100.0
0°-180°	23897.2	100.0

**Coefficient of Utilization**

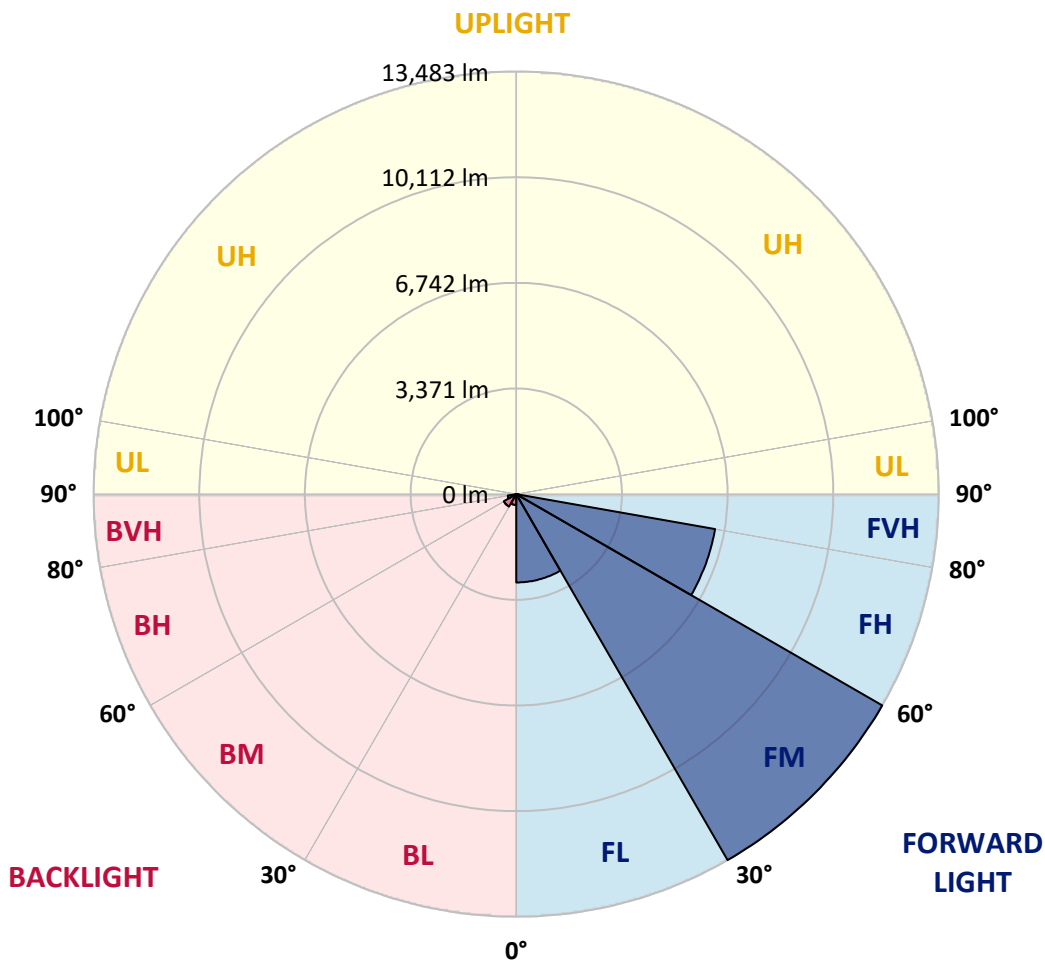


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2817.7	11.8			
FM (30°-60°)	13483.2	56.4			
FH (60°-80°)	6442.2	27.0			G3/7500
FVH (80°-90°)	70.4	0.3			G1/100
BL (0°-30°)	346.3	1.4	B1/500		
BM (30°-60°)	457.9	1.9	B1/1000		
BH (60°-80°)	273.6	1.1	B1/500		G1/500
BVH (80°-90°)	5.9	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2288.2	2288.2	2288.2	2288.2	2288.2	2288.2	2288.2	2288.2	2288.2	2288.2	2288.2
2.5°	3476.7	3410.9	3341.7	3322.0	3193.6	3048.7	2913.7	2782.0	2561.5	2564.8	2413.3
5°	4480.9	4398.6	4342.6	4329.5	4128.6	3878.4	3674.3	3302.2	2936.8	2854.5	2577.9
7.5°	5307.3	5281.0	5198.6	5129.5	4981.3	4675.2	4434.8	3901.5	3345.0	3252.9	2778.8
10°	5807.7	5847.2	5883.5	5794.6	5679.3	5458.7	5129.5	4553.3	3809.3	3694.0	3038.9
12.5°	6341.1	6275.2	6298.3	6370.7	6219.3	6169.9	5761.6	5225.0	4352.5	4131.9	3368.1
15°	6479.4	6505.7	6561.7	6772.4	6874.5	6732.9	6380.6	5768.2	4915.5	4609.3	3674.3
17.5°	6571.6	6558.4	6627.5	6943.6	7098.3	7233.3	7012.7	6374.0	5406.1	5132.8	4056.2
20°	6686.8	6614.4	6765.8	6966.6	7325.5	7608.7	7598.8	6983.1	5919.7	5629.9	4434.8
22.5°	7114.8	7058.8	7180.6	7200.4	7450.6	7845.7	7941.2	7480.2	6446.4	6090.9	4843.1
25°	7905.0	8007.0	7862.2	7737.1	7812.8	8072.9	8142.0	7921.4	6976.5	6650.6	5251.3
27.5°	9060.6	9047.4	8761.0	8599.7	8418.6	8385.6	8435.0	8333.0	7394.6	7160.9	5587.1
30°	10301.8	10193.2	9929.8	9541.3	9142.9	8896.0	8826.8	8721.5	7885.2	7546.1	5919.7
32.5°	11289.5	11348.8	11055.8	10548.7	9887.0	9554.4	9221.9	9106.7	8425.2	8125.6	6301.6
35°	12198.2	12119.2	11885.4	11457.4	10864.8	10328.1	9808.0	9561.0	9073.8	8777.4	6723.0
37.5°	12869.8	12968.6	12524.2	12115.9	11526.6	11082.1	10571.8	10031.8	9742.1	9347.0	7236.6
40°	13505.3	13350.5	13050.9	12675.6	12129.1	11790.0	11454.1	10611.3	10453.3	9942.9	7816.1
42.5°	13393.3	13403.2	13238.6	12935.7	12540.6	12346.4	12231.1	11315.9	11098.6	10772.6	8382.4
45°	12935.7	12975.2	13031.2	12883.0	12915.9	12721.7	13031.2	12125.8	11911.8	11566.1	9034.2
47.5°	12432.0	12497.8	12484.6	12754.6	13060.8	13126.7	13900.4	13024.6	12932.4	12741.4	9936.4
50°	11595.7	11622.0	11875.6	12366.1	12784.2	13472.4	14552.2	14005.7	14147.3	13772.0	11009.7
52.5°	10166.8	10262.3	10914.2	11615.5	12458.3	13646.8	14993.4	15464.2	15823.1	15437.9	12040.2
55°	8359.3	8491.0	9133.0	10446.7	11681.3	13383.5	15395.1	16234.6	16962.3	16379.5	12665.7
57.5°	6726.3	6739.5	7315.6	8672.1	10578.4	12866.6	15599.2	16610.0	17587.8	17120.3	13429.6
60°	5126.2	5073.5	5590.4	6765.8	8721.5	11595.7	15088.9	16800.9	18368.1	18098.1	14348.1
62.5°	3298.9	3216.6	3779.6	4925.4	6811.9	9478.7	14068.3	16804.2	19586.3	19484.2	15885.7
65°	1633.0	1577.0	2061.0	3019.1	4714.7	7249.8	12613.0	16741.7	21074.4	21140.3	17383.7
67.5°	862.6	882.4	1037.1	1530.9	2719.5	5122.9	10420.3	16007.5	21835.0	22203.7	17745.8
68°	793.5	800.0	921.9	1274.1	2360.6	4750.9	9900.1	15793.5	21894.2	22348.6	17545.0
70°	645.3	655.2	698.0	800.0	1277.4	3091.5	7638.3	13976.1	21002.0	21416.8	15882.4
72.5°	513.6	543.2	569.6	612.4	750.7	1623.1	4750.9	10891.1	17350.8	17396.8	12362.8
75°	391.8	414.8	467.5	503.7	586.0	892.2	2261.9	6640.7	11385.0	10825.3	7282.7
77.5°	302.9	322.7	345.7	395.1	490.6	602.5	691.4	2818.3	4836.5	3980.5	2057.7
80°	181.1	194.2	270.0	309.5	428.0	408.3	273.3	783.6	981.1	773.7	375.3
82.5°	105.4	115.2	154.7	237.1	299.6	220.6	161.3	243.6	240.3	210.7	125.1
85°	3.3	6.6	85.6	141.6	105.4	59.3	98.8	102.1	85.6	79.0	56.0
87.5°	0.0	3.3	23.0	19.8	23.0	13.2	19.8	26.3	32.9	29.6	23.0
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°	2288.2	2288.2	2288.2	2288.2	2288.2	2288.2	2288.2	2288.2	2288.2	2288.2	2288.2
2.5°	2311.2	2238.8	2077.5	1955.7	1824.0	1745.0	1665.9	1616.6	1590.2	1573.7	1586.9
5°	2370.5	2219.1	1959.0	1728.5	1577.0	1475.0	1372.9	1320.2	1270.9	1244.5	1261.0
7.5°	2502.2	2275.0	1843.7	1593.5	1415.7	1257.7	1129.3	1027.2	968.0	915.3	925.2
10°	2663.5	2307.9	1847.0	1514.5	1257.7	1007.5	826.4	698.0	625.5	579.5	576.2
12.5°	2828.1	2436.3	1860.2	1435.5	1063.4	757.2	543.2	447.8	405.0	381.9	381.9
15°	3078.4	2551.6	1827.3	1290.6	806.6	493.9	372.0	339.1	322.7	302.9	306.2
17.5°	3295.7	2736.0	1810.8	1073.3	553.1	355.6	309.5	273.3	256.8	237.1	237.1
20°	3588.7	2851.2	1721.9	829.7	381.9	296.3	250.2	217.3	191.0	174.5	177.8
22.5°	3855.4	2940.1	1563.9	566.3	293.0	233.8	184.4	151.4	128.4	108.6	111.9
25°	4145.1	3029.0	1333.4	349.0	207.4	144.9	98.8	72.4	49.4	36.2	36.2
27.5°	4352.5	3055.3	1033.8	207.4	125.1	65.8	23.0	3.3	0.0	0.0	0.0
30°	4563.2	3065.2	714.4	111.9	49.4	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4803.6	3061.9	447.8	59.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	4987.9	3005.9	214.0	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5267.8	2923.6	65.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5587.1	2775.5	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5873.6	2624.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6199.5	2436.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6772.4	2357.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7519.8	2294.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7980.7	2110.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8221.0	1919.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8576.6	1827.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9103.4	1833.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9926.5	1926.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10380.8	1833.8	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9995.6	1468.4	62.6	16.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
68°	9663.1	1349.9	62.6	16.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	7987.3	879.1	59.3	16.5	6.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5817.6	487.3	49.4	13.2	6.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	3384.5	243.6	36.2	13.2	6.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	882.4	121.8	29.6	16.5	9.9	3.3	0.0	0.0	0.0	0.0	0.0
80°	174.5	79.0	26.3	19.8	13.2	6.6	0.0	0.0	0.0	0.0	0.0
82.5°	82.3	56.0	26.3	19.8	16.5	9.9	3.3	0.0	0.0	0.0	0.0
85°	42.8	26.3	26.3	19.8	19.8	13.2	6.6	0.0	0.0	0.0	0.0
87.5°	19.8	9.9	9.9	9.9	9.9	6.6	3.3	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)