

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: P481564

Luminaire Tested: **IFLD-S-SA6A-727-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481564  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-727-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

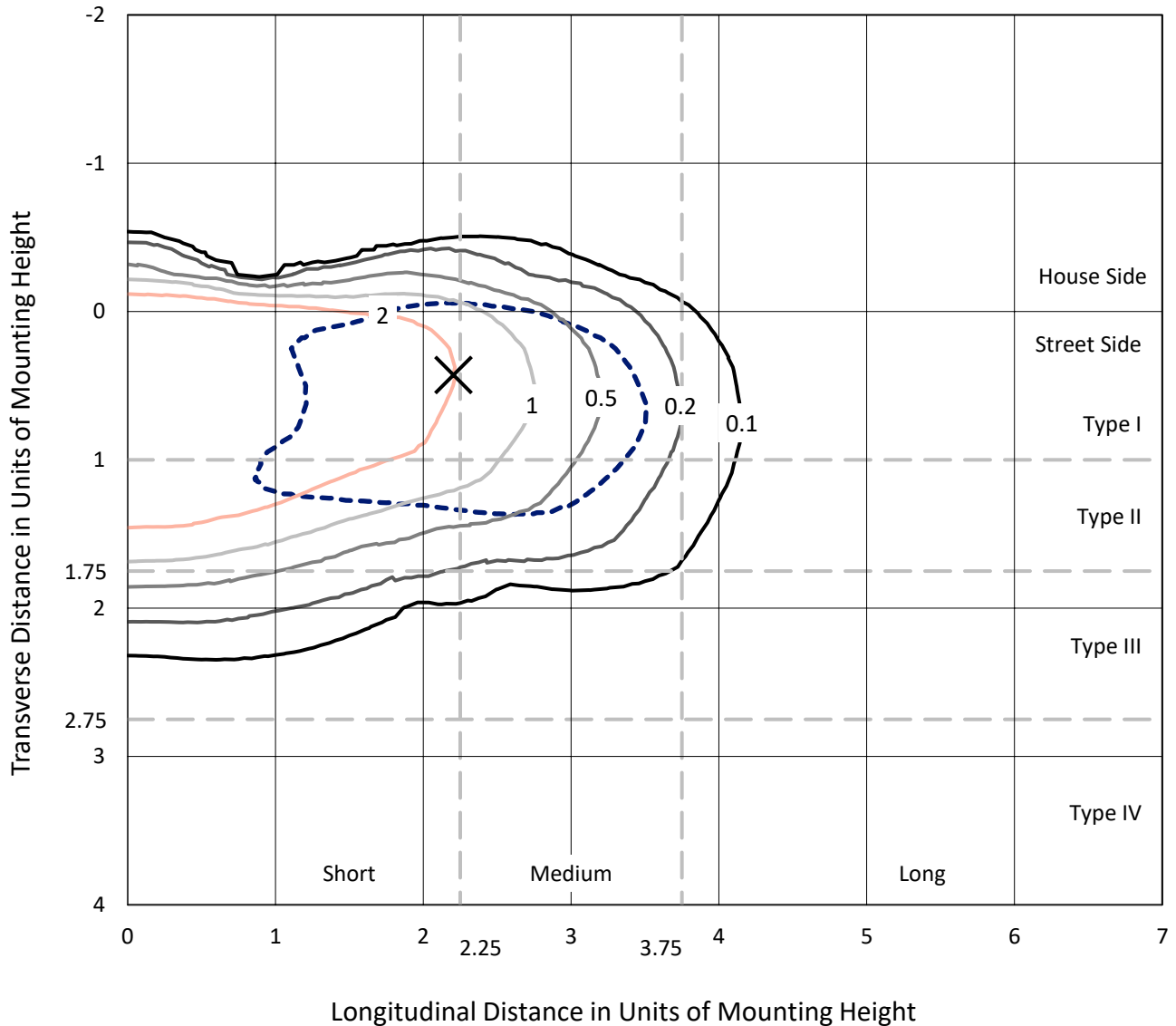
Lumens per Lamp: N/A  
Luminaire Lumens: 16254.7 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 189.6  
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

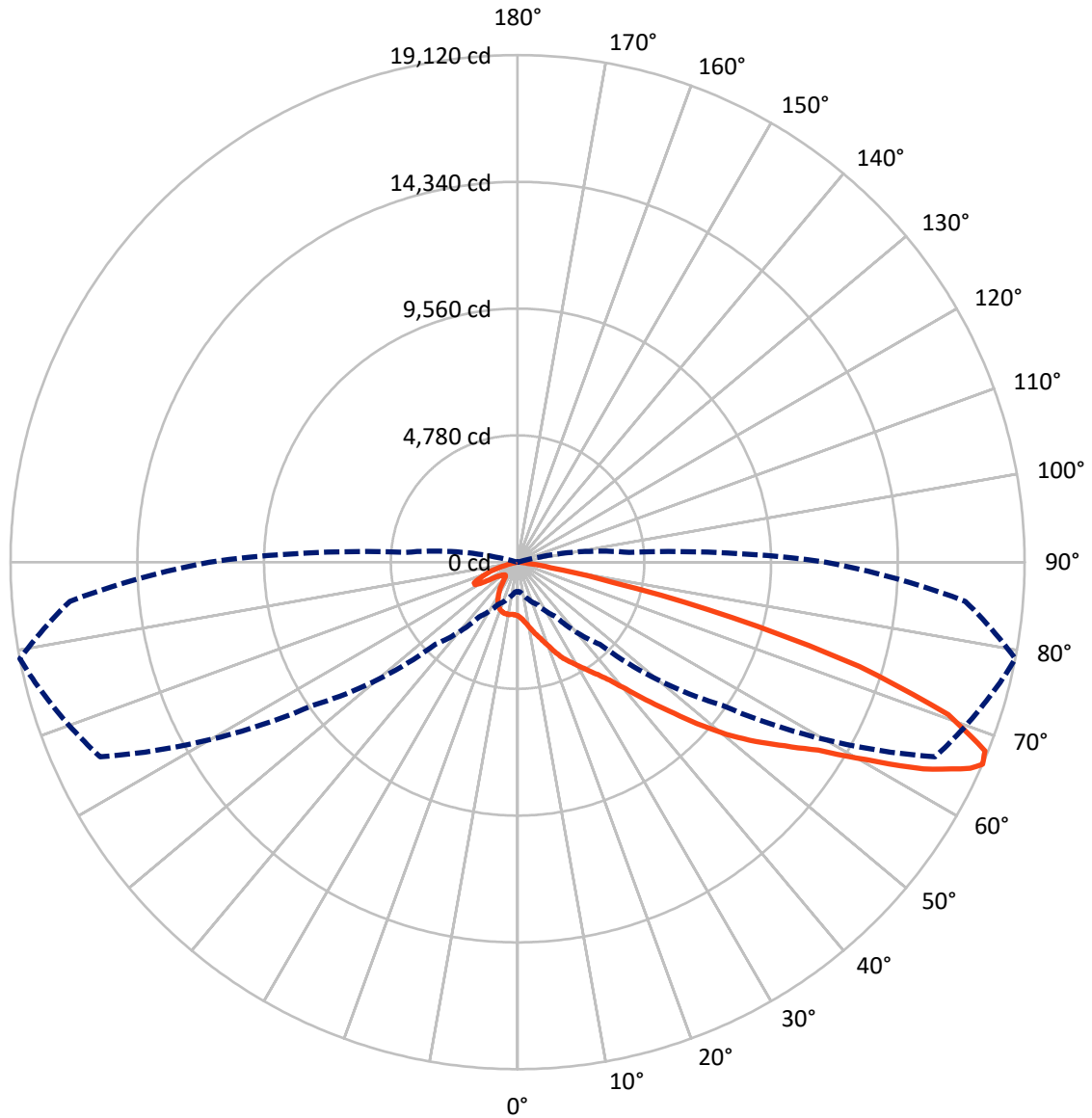
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	1220.5	0.0	1220.5
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	15034.2	0.0	15034.2
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	16254.7	0.0	16254.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.2	1.2
10°-20°	526.4	3.2
20°-30°	874.4	5.4
30°-40°	1501.9	9.2
40°-50°	2720.9	16.7
50°-60°	4300.9	26.5
60°-70°	4376.5	26.9
70°-80°	1669.0	10.3
80°-90°	93.6	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°	16254.7	100.0
0°-180°	16254.7	100.0

**Coefficient of Utilization**



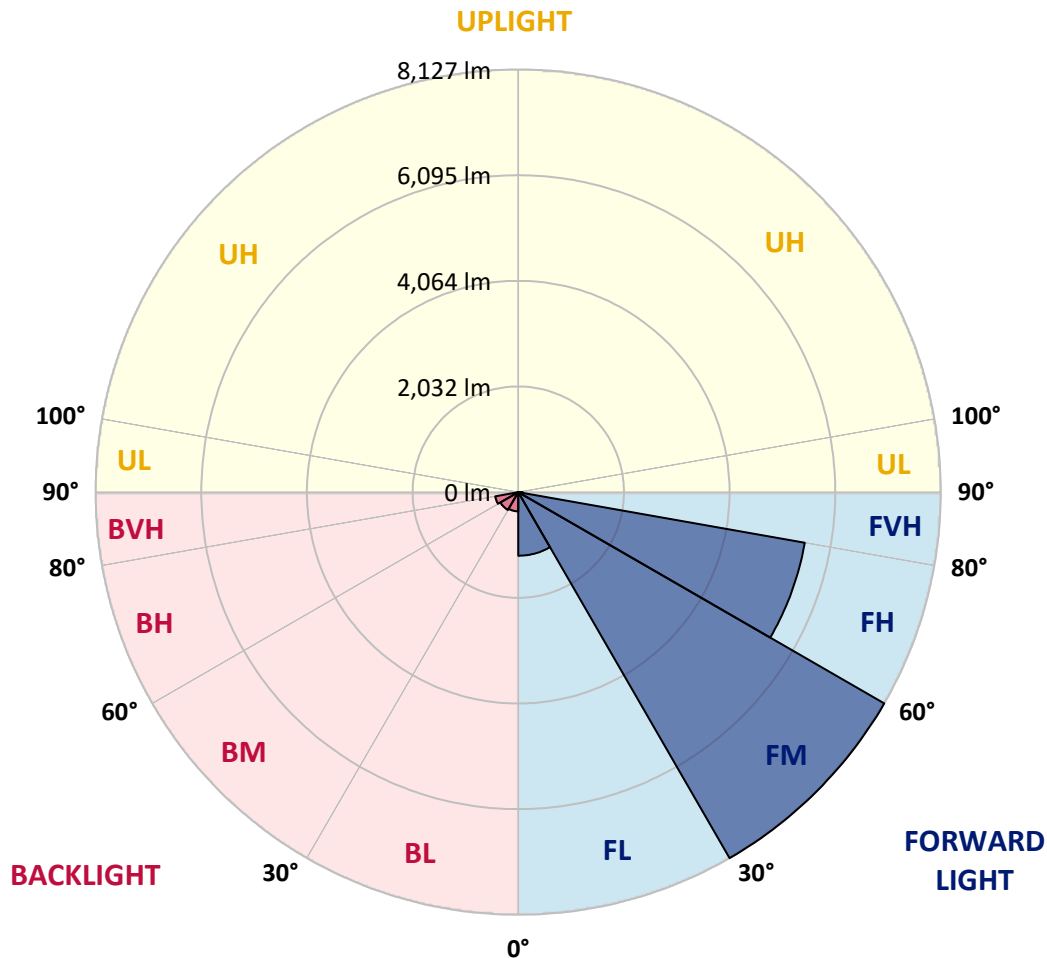
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1222.9	7.5			
FM (30°-60°)	8127.0	50.0			
FH (60°-80°)	5595.6	34.4			G3/7500
FVH (80°-90°)	88.8	0.5			G1/100
BL (0°-30°)	369.1	2.3	B1/500		
BM (30°-60°)	396.7	2.4	B1/1000		
BH (60°-80°)	449.9	2.8	B1/500		G1/500
BVH (80°-90°)	4.8	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°	2022.3	2022.3	2022.3	2022.3	2022.3	2022.3	2022.3	2022.3	2022.3	2022.3	2022.3
2.5°	2290.4	2287.9	2277.9	2260.3	2237.8	2230.3	2197.7	2152.6	2127.5	2100.0	2087.4
5°	2448.3	2435.8	2465.8	2453.3	2458.3	2398.2	2358.1	2325.5	2230.3	2192.7	2132.5
7.5°	2483.4	2495.9	2493.4	2513.4	2533.5	2556.0	2528.5	2480.9	2385.6	2330.5	2265.4
10°	2483.4	2478.4	2498.4	2526.0	2583.6	2633.7	2708.9	2646.3	2573.6	2508.4	2390.7
12.5°	2438.3	2430.8	2450.8	2508.4	2611.2	2713.9	2796.6	2856.8	2754.0	2701.4	2548.5
15°	2300.4	2292.9	2375.6	2478.4	2613.7	2781.6	2954.5	3052.2	2982.1	2899.4	2729.0
17.5°	2130.0	2140.1	2227.8	2398.2	2613.7	2814.2	3034.7	3247.7	3237.7	3132.4	2954.5
20°	2072.4	2079.9	2167.6	2290.4	2536.0	2836.7	3160.0	3460.7	3520.8	3395.5	3162.5
22.5°	2182.7	2175.1	2182.7	2257.8	2483.4	2816.7	3242.7	3703.8	3811.5	3713.8	3435.6
25°	2558.6	2553.5	2490.9	2375.6	2453.3	2771.6	3285.3	3864.1	4112.2	4022.0	3656.1
27.5°	3109.9	3089.8	2992.1	2751.5	2593.6	2799.1	3355.4	4019.5	4375.4	4272.6	3854.1
30°	3701.3	3653.6	3525.8	3225.1	2957.0	2901.9	3395.5	4134.8	4668.5	4538.2	4027.0
32.5°	4109.7	4172.4	4132.3	3826.6	3415.6	3139.9	3460.7	4280.1	4939.2	4854.0	4322.7
35°	4741.2	4813.9	4646.0	4375.4	3961.9	3518.3	3598.5	4397.9	5355.2	5212.3	4598.4
37.5°	5538.1	5593.2	5472.9	4959.2	4523.2	3984.4	3881.7	4643.5	5713.5	5645.9	4951.7
40°	5939.1	6204.7	6034.3	5570.7	5102.1	4636.0	4350.3	4931.7	6337.5	6282.4	5440.4
42.5°	6492.9	6625.7	6538.0	6194.7	5706.0	5332.6	4929.2	5493.0	7094.3	7094.3	6101.9
45°	7079.2	7084.3	7079.2	6798.6	6365.1	6172.1	5711.0	6197.2	7908.7	7998.9	6893.8
47.5°	7560.4	7710.7	7698.2	7530.3	7194.5	7121.8	6492.9	6999.1	8931.1	9089.0	7665.6
50°	7808.5	7976.4	8026.5	8114.2	8099.2	8252.0	7347.4	7928.8	9813.2	10201.6	8658.0
52.5°	7740.8	7753.3	8061.6	8407.4	8958.7	9387.2	8377.3	8983.8	10845.7	11229.1	9424.8
55°	7187.0	7139.4	7773.4	8169.3	9309.5	10081.3	9803.2	10299.4	11650.1	12233.9	10216.7
57.5°	5971.6	5984.2	6570.5	7374.9	9048.9	10357.0	11326.8	12018.4	12777.7	13366.6	11329.3
60°	4122.3	4107.2	4763.8	5693.5	7517.8	9843.3	12203.9	14246.2	14286.3	15120.8	13326.5
62.5°	2318.0	2323.0	2821.7	3616.1	5259.9	8044.0	12161.3	16611.8	16441.4	17173.1	15596.9
65°	1313.1	1345.7	1689.0	2142.6	3150.0	5400.3	10459.7	17554.0	18102.8	18754.4	16975.2
66°	1110.1	1132.7	1425.9	1769.2	2513.4	4380.4	9414.8	17371.1	18624.1	19120.2	16947.6
67.5°	859.5	889.6	1135.2	1403.3	1844.4	3032.2	7577.9	16461.4	18719.3	19010.0	16469.0
70°	588.9	608.9	796.9	1065.0	1260.5	1551.2	4530.7	13609.7	16985.2	17230.8	14313.9
72.5°	413.5	423.5	558.8	806.9	969.8	887.1	2247.8	9682.9	12998.3	13476.9	11133.8
75°	298.2	308.2	383.4	578.9	756.8	581.4	1029.9	6184.6	7971.4	8347.2	6705.9
77.5°	215.5	228.0	260.6	373.4	548.8	408.5	506.2	3230.1	3758.9	3693.7	2884.3
80°	130.3	142.8	193.0	240.6	400.9	288.2	278.2	1348.2	1333.2	1265.5	907.1
82.5°	60.1	70.2	102.7	162.9	280.7	200.5	132.8	481.1	421.0	385.9	255.6
85°	17.5	22.6	60.1	122.8	142.8	97.7	80.2	165.4	172.9	147.8	85.2
87.5°	0.0	2.5	27.6	30.1	42.6	32.6	30.1	42.6	80.2	65.2	27.6
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°	2022.3	2022.3	2022.3	2022.3	2022.3	2022.3	2022.3	2022.3	2022.3	2022.3	2022.3
2.5°	2042.3	2024.8	1982.2	1917.0	1859.4	1829.3	1786.7	1749.1	1729.1	1726.6	1724.1
5°	2092.5	2044.8	1942.1	1824.3	1736.6	1641.4	1576.2	1528.6	1483.5	1440.9	1466.0
7.5°	2160.1	2084.9	1917.0	1764.2	1573.7	1450.9	1335.7	1268.0	1227.9	1190.3	1185.3
10°	2265.4	2170.1	1899.5	1623.8	1405.8	1225.4	1107.6	1009.9	954.8	889.6	914.7
12.5°	2408.2	2237.8	1834.3	1496.0	1215.4	1024.9	857.0	699.2	611.4	543.8	546.3
15°	2551.0	2328.0	1774.2	1340.7	1042.5	791.9	546.3	438.5	413.5	398.4	403.5
17.5°	2691.4	2400.7	1681.5	1182.8	844.5	503.7	398.4	375.9	363.4	348.3	348.3
20°	2861.8	2448.3	1566.2	1037.5	581.4	373.4	340.8	325.8	305.7	285.7	288.2
22.5°	3027.2	2488.4	1433.4	852.0	390.9	323.3	285.7	265.6	248.1	228.0	228.0
25°	3192.6	2500.9	1260.5	611.4	315.7	258.1	223.0	195.5	177.9	160.4	162.9
27.5°	3305.3	2423.2	1097.6	390.9	253.1	195.5	155.4	132.8	117.8	100.2	100.2
30°	3370.5	2280.4	922.2	275.7	190.5	132.8	92.7	70.2	55.1	42.6	40.1
32.5°	3435.6	2165.1	724.2	210.5	125.3	70.2	35.1	12.5	0.0	0.0	0.0
35°	3565.9	2034.8	486.2	117.8	42.6	2.5	0.0	0.0	0.0	0.0	0.0
37.5°	3648.6	1854.4	223.0	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3856.6	1764.2	55.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4194.9	1701.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4565.8	1676.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5059.5	1744.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5580.7	1927.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6152.1	2100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6650.7	2308.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7567.9	2799.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9214.3	3763.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11068.7	4480.6	27.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11747.8	4463.1	47.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	11627.5	4217.5	47.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11003.5	3746.4	42.6	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9449.9	3094.8	42.6	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7204.5	2410.7	40.1	10.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	4347.8	1283.0	32.6	12.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1731.6	451.1	25.1	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	468.6	135.3	15.0	10.0	7.5	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	122.8	50.1	12.5	10.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0
85°	47.6	20.0	10.0	7.5	7.5	5.0	2.5	0.0	0.0	0.0	0.0
87.5°	15.0	7.5	7.5	5.0	5.0	2.5	2.5	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)