

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: P482088

Luminaire Tested: **IFLD-L-SA8C-740-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482088  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-740-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

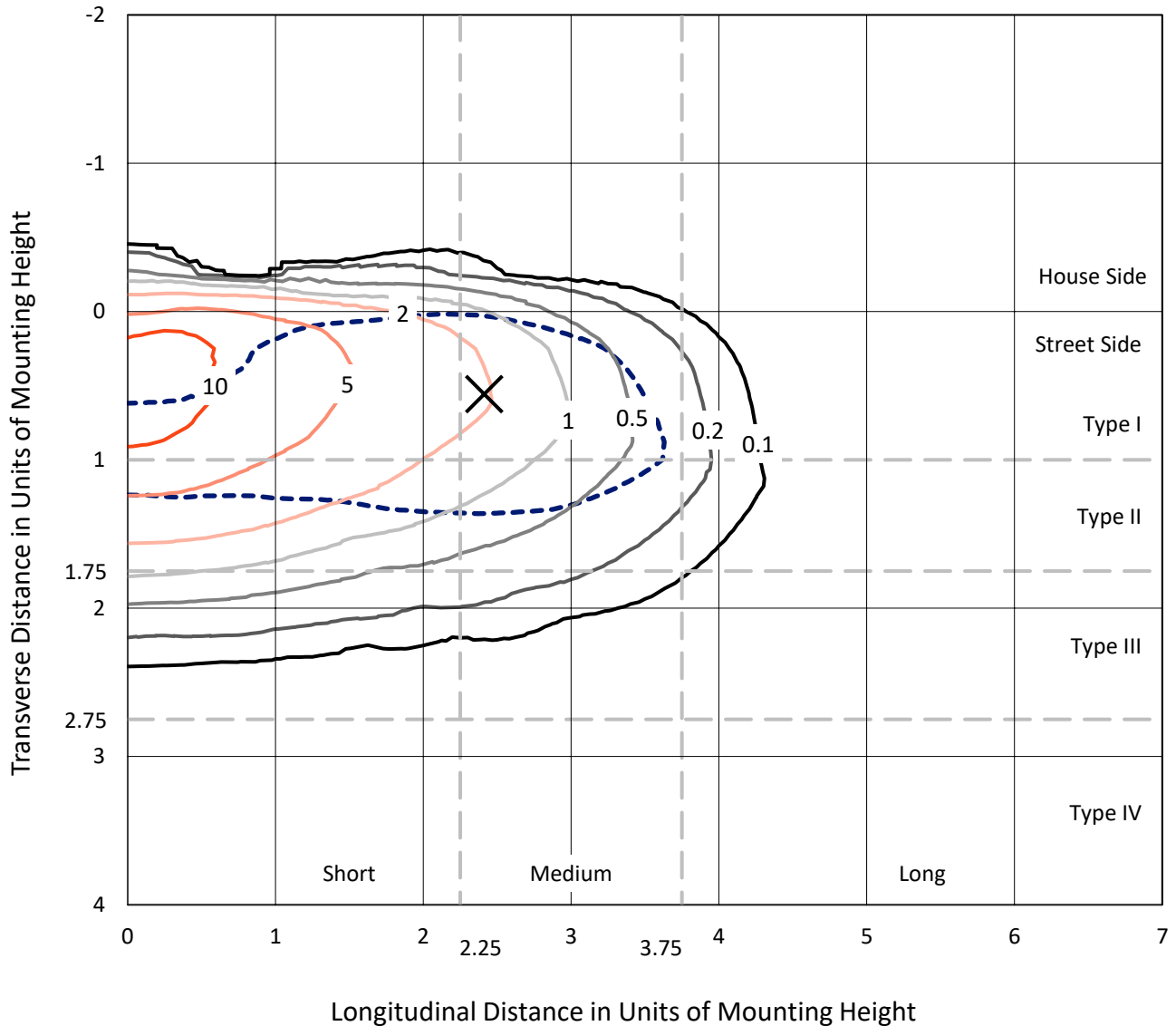
Lumens per Lamp: N/A  
Luminaire Lumens: 39832.4 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

Input Watts (W): 420.3  
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

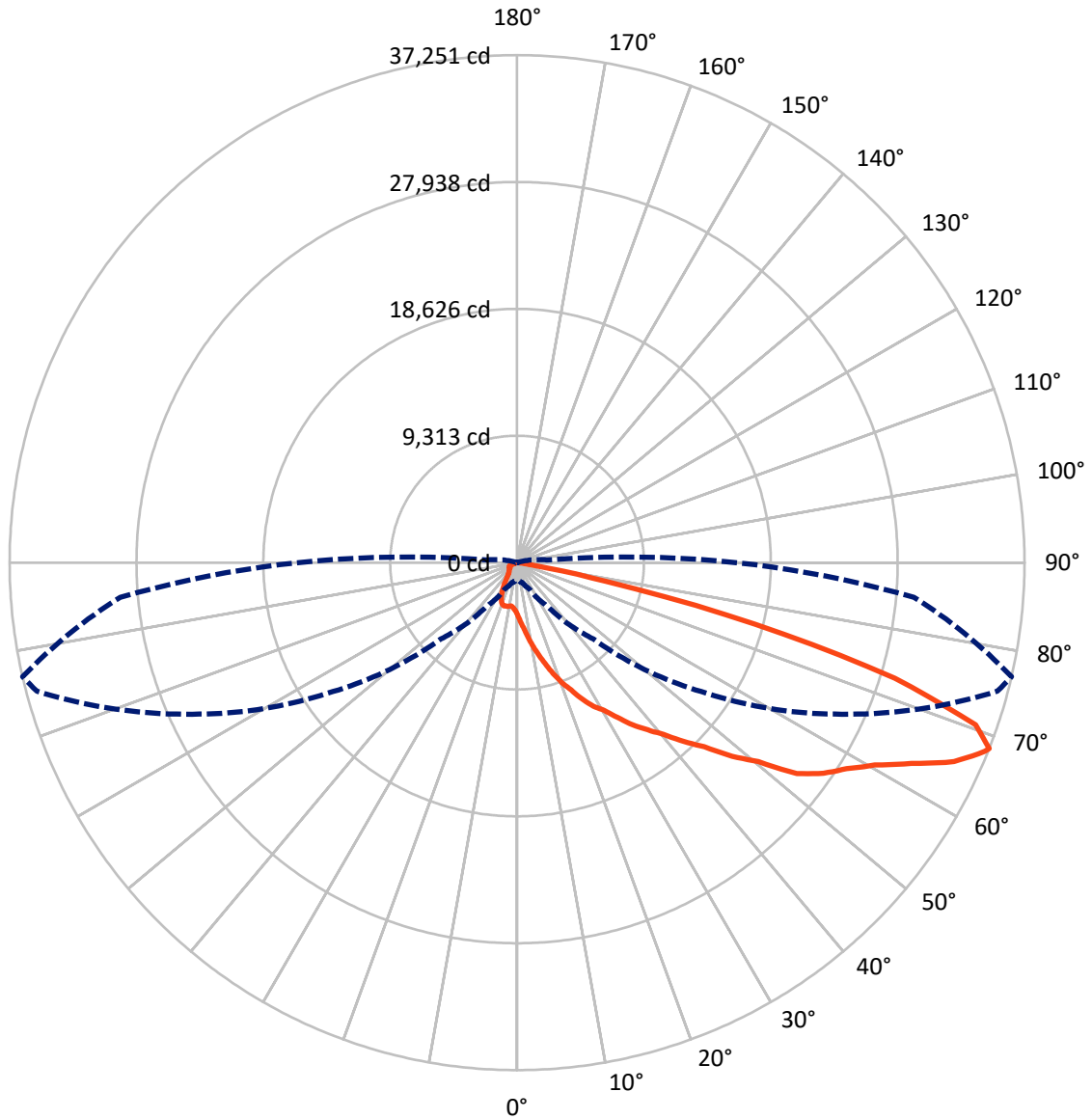
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.5 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	1806.4	0.0	1806.4
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	38026.0	0.0	38026.0
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	39832.4	0.0	39832.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	445.6	1.1
10°-20°	1643.3	4.1
20°-30°	3184.8	8.0
30°-40°	5552.2	13.9
40°-50°	8131.7	20.4
50°-60°	9553.5	24.0
60°-70°	8067.1	20.3
70°-80°	3127.0	7.9
80°-90°	127.2	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°	39832.4	100.0
0°-180°	39832.4	100.0

**Coefficient of Utilization**

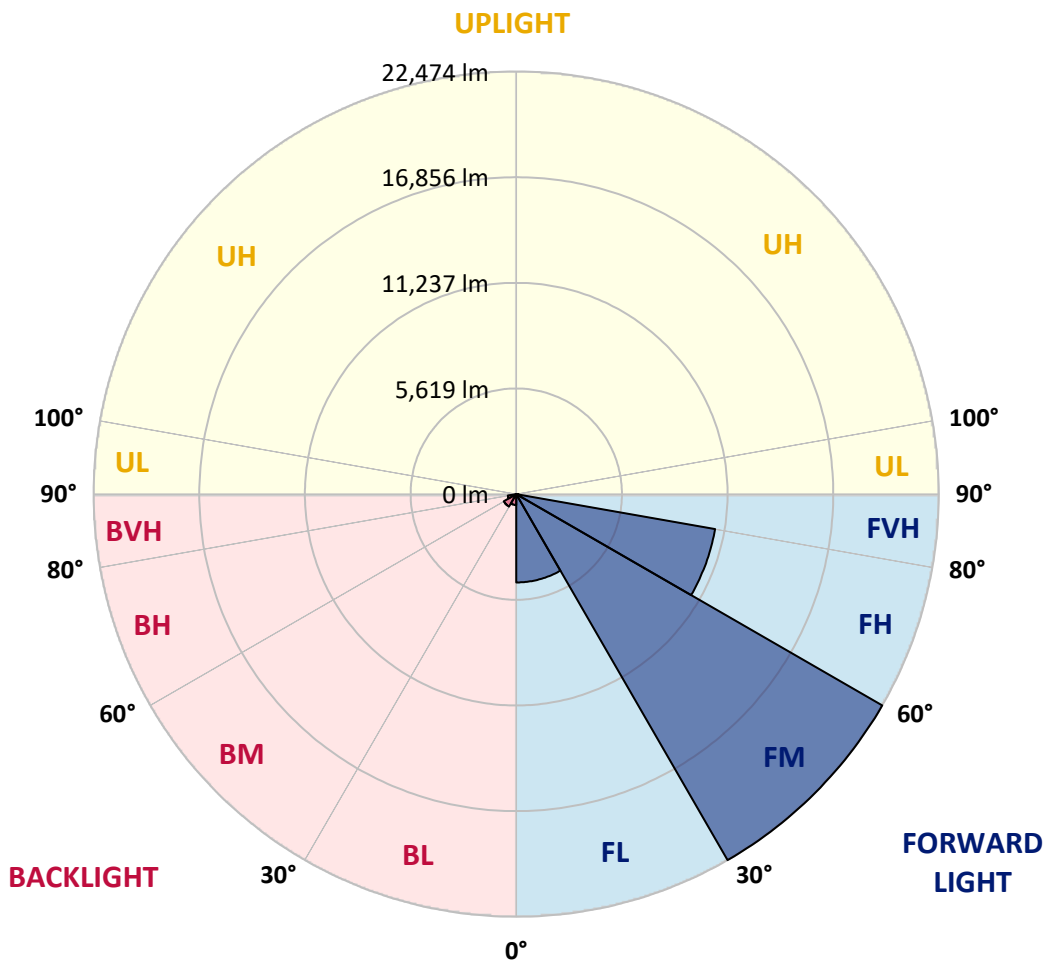


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4696.6	11.8			
FM (30°-60°)	22474.2	56.4			
FH (60°-80°)	10738.0	27.0			G4/12000
FVH (80°-90°)	117.3	0.3			G2/225
BL (0°-30°)	577.1	1.4	B2/1000		
BM (30°-60°)	763.3	1.9	B1/1000		
BH (60°-80°)	456.1	1.1	B1/500		G1/500
BVH (80°-90°)	9.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3814.0	3814.0	3814.0	3814.0	3814.0	3814.0	3814.0	3814.0	3814.0	3814.0	3814.0
2.5°	5795.1	5685.3	5570.1	5537.2	5323.2	5081.7	4856.7	4637.2	4269.5	4275.0	4022.5
5°	7468.9	7331.7	7238.4	7216.4	6881.7	6464.6	6124.4	5504.3	4895.1	4757.9	4296.9
7.5°	8846.3	8802.4	8665.2	8550.0	8303.0	7792.7	7392.0	6503.0	5575.6	5421.9	4631.7
10°	9680.5	9746.3	9806.7	9658.5	9466.4	9098.8	8550.0	7589.6	6349.4	6157.3	5065.2
12.5°	10569.5	10459.7	10498.1	10618.9	10366.4	10284.1	9603.6	8709.1	7254.9	6887.2	5614.0
15°	10800.0	10843.9	10937.2	11288.4	11458.5	11222.5	10635.3	9614.6	8193.3	7682.9	6124.4
17.5°	10953.6	10931.7	11046.9	11573.7	11831.7	12056.7	11689.0	10624.4	9010.9	8555.5	6761.0
20°	11145.7	11025.0	11277.4	11612.2	12210.3	12682.3	12665.8	11639.6	9867.0	9384.1	7392.0
22.5°	11859.1	11765.8	11968.9	12001.8	12418.9	13077.4	13236.5	12468.3	10745.1	10152.4	8072.5
25°	13176.2	13346.3	13104.8	12896.3	13022.5	13456.1	13571.3	13203.6	11628.6	11085.3	8753.0
27.5°	15102.4	15080.4	14603.0	14334.1	14032.3	13977.4	14059.7	13889.6	12325.6	11935.9	9312.8
30°	17171.3	16990.2	16551.2	15903.6	15239.6	14828.0	14712.8	14537.1	13143.3	12578.0	9867.0
32.5°	18817.6	18916.4	18428.0	17582.9	16479.8	15925.6	15371.3	15179.2	14043.2	13543.9	10503.6
35°	20332.3	20200.5	19810.9	19097.5	18109.7	17215.2	16348.1	15936.5	15124.3	14630.4	11206.1
37.5°	21451.8	21616.4	20875.5	20195.1	19212.7	18471.9	17621.3	16721.3	16238.4	15579.8	12062.2
40°	22510.9	22253.0	21753.6	21128.0	20217.0	19651.8	19092.0	17687.1	17423.7	16573.1	13028.0
42.5°	22324.3	22340.8	22066.4	21561.5	20903.0	20579.2	20387.1	18861.5	18499.3	17956.0	13971.9
45°	21561.5	21627.4	21720.7	21473.7	21528.6	21204.8	21720.7	20211.5	19854.8	19278.6	15058.5
47.5°	20721.9	20831.6	20809.7	21259.7	21770.1	21879.8	23169.4	21709.7	21556.0	21237.7	16562.1
50°	19328.0	19371.9	19794.4	20612.1	21309.1	22456.0	24256.0	23345.0	23581.0	22955.4	18351.2
52.5°	16946.3	17105.4	18192.0	19360.9	20765.8	22746.9	24991.4	25776.1	26374.3	25732.2	20068.8
55°	13933.5	14153.0	15223.1	17412.7	19470.7	22307.9	25660.9	27060.3	28273.1	27301.7	21111.5
57.5°	11211.6	11233.5	12193.9	14454.8	17632.3	21446.3	26001.1	27685.9	29315.8	28536.5	22384.7
60°	8544.5	8456.7	9318.3	11277.4	14537.1	19328.0	25150.5	28004.2	30616.4	30166.4	23915.8
62.5°	5498.8	5361.6	6300.0	8209.7	11354.2	15799.3	23449.3	28009.7	32646.8	32476.7	26478.6
65°	2721.9	2628.7	3435.4	5032.3	7858.5	12084.1	21023.7	27905.4	35127.3	35237.1	28975.5
67.5°	1437.8	1470.7	1728.7	2551.8	4532.9	8539.0	17368.8	26681.6	36395.0	37009.6	29579.2
68°	1322.6	1333.5	1536.6	2123.8	3934.7	7918.9	16501.8	26324.9	36493.8	37251.1	29244.4
70°	1075.6	1092.1	1163.4	1333.5	2129.3	5153.0	12731.7	23295.7	35006.6	35698.1	26473.1
72.5°	856.1	905.5	949.4	1020.7	1251.2	2705.5	7918.9	18153.6	28920.6	28997.5	20606.6
75°	653.0	691.5	779.3	839.6	976.8	1487.2	3770.1	11068.9	18976.8	18043.8	12139.0
77.5°	504.9	537.8	576.2	658.5	817.7	1004.3	1152.4	4697.5	8061.6	6634.7	3429.9
80°	301.8	323.8	450.0	515.9	713.4	680.5	455.5	1306.1	1635.4	1289.6	625.6
82.5°	175.6	192.1	257.9	395.1	499.4	367.7	268.9	406.1	400.6	351.2	208.5
85°	5.5	11.0	142.7	236.0	175.6	98.8	164.6	170.1	142.7	131.7	93.3
87.5°	0.0	5.5	38.4	32.9	38.4	22.0	32.9	43.9	54.9	49.4	38.4
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°	3814.0	3814.0	3814.0	3814.0	3814.0	3814.0	3814.0	3814.0	3814.0	3814.0	3814.0
2.5°	3852.4	3731.7	3462.8	3259.7	3040.2	2908.5	2776.8	2694.5	2650.6	2623.2	2645.1
5°	3951.2	3698.8	3265.2	2881.1	2628.7	2458.5	2288.4	2200.6	2118.3	2074.4	2101.8
7.5°	4170.7	3792.1	3073.2	2656.1	2359.7	2096.3	1882.3	1712.2	1613.4	1525.6	1542.1
10°	4439.6	3846.9	3078.6	2524.4	2096.3	1679.3	1377.4	1163.4	1042.7	965.9	960.4
12.5°	4714.0	4061.0	3100.6	2392.7	1772.6	1262.2	905.5	746.3	675.0	636.6	636.6
15°	5131.1	4253.0	3045.7	2151.2	1344.5	823.2	620.1	565.2	537.8	504.9	510.4
17.5°	5493.3	4560.4	3018.3	1789.0	921.9	592.7	515.9	455.5	428.0	395.1	395.1
20°	5981.7	4752.4	2870.1	1382.9	636.6	493.9	417.1	362.2	318.3	290.9	296.3
22.5°	6426.2	4900.6	2606.7	943.9	488.4	389.6	307.3	252.4	214.0	181.1	186.6
25°	6909.1	5048.8	2222.6	581.7	345.7	241.5	164.6	120.7	82.3	60.4	60.4
27.5°	7254.9	5092.7	1723.2	345.7	208.5	109.8	38.4	5.5	0.0	0.0	0.0
30°	7606.1	5109.1	1190.8	186.6	82.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	8006.7	5103.6	746.3	98.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	8314.0	5010.4	356.7	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	8780.5	4873.2	109.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	9312.8	4626.2	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	9790.2	4373.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	10333.5	4061.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	11288.4	3929.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	12534.1	3825.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13302.4	3517.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13703.0	3199.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	14295.7	3045.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	15173.7	3056.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	16545.7	3210.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	17303.0	3056.7	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	16660.9	2447.6	104.3	27.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	16106.7	2250.0	104.3	27.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	13313.4	1465.2	98.8	27.4	11.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9696.9	812.2	82.3	22.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5641.4	406.1	60.4	22.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1470.7	203.0	49.4	27.4	16.5	5.5	0.0	0.0	0.0	0.0	0.0
80°	290.9	131.7	43.9	32.9	22.0	11.0	0.0	0.0	0.0	0.0	0.0
82.5°	137.2	93.3	43.9	32.9	27.4	16.5	5.5	0.0	0.0	0.0	0.0
85°	71.3	43.9	43.9	32.9	32.9	22.0	11.0	0.0	0.0	0.0	0.0
87.5°	32.9	16.5	16.5	16.5	16.5	11.0	5.5	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)