

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: P481971

Luminaire Tested: **IFLD-L-SA8C-727-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481971  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-727-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

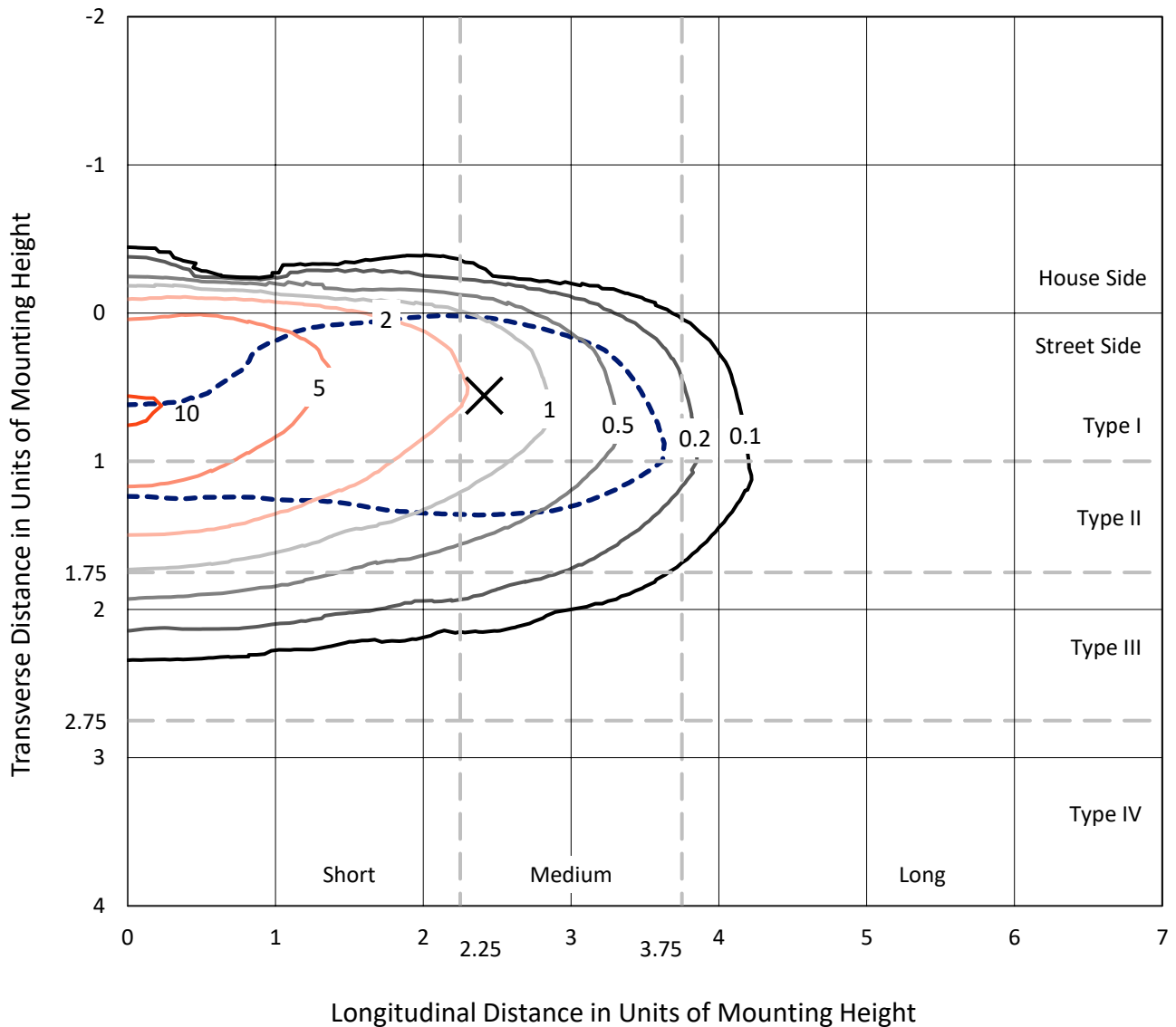
Lumens per Lamp: N/A  
Luminaire Lumens: 33311.8 lumens  
Efficiency: N/A  
Efficacy: 79.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G4

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

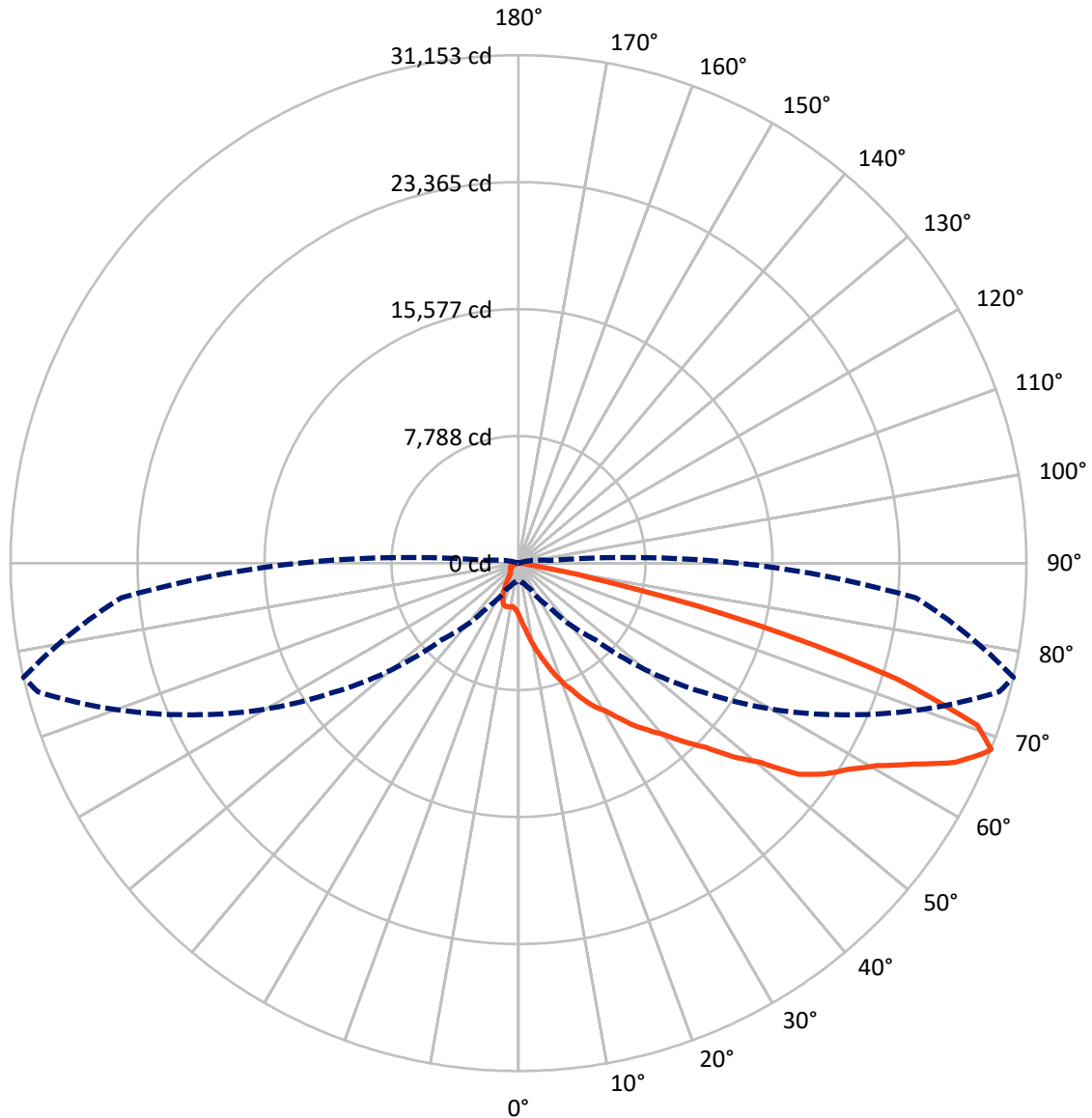
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 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	1510.7	0.0	1510.7
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	31801.2	0.0	31801.2
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	33311.8	0.0	33311.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.6	1.1
10°-20°	1374.3	4.1
20°-30°	2663.5	8.0
30°-40°	4643.3	13.9
40°-50°	6800.6	20.4
50°-60°	7989.6	24.0
60°-70°	6746.5	20.3
70°-80°	2615.1	7.9
80°-90°	106.3	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°	33311.8	100.0
0°-180°	33311.8	100.0

**Coefficient of Utilization**



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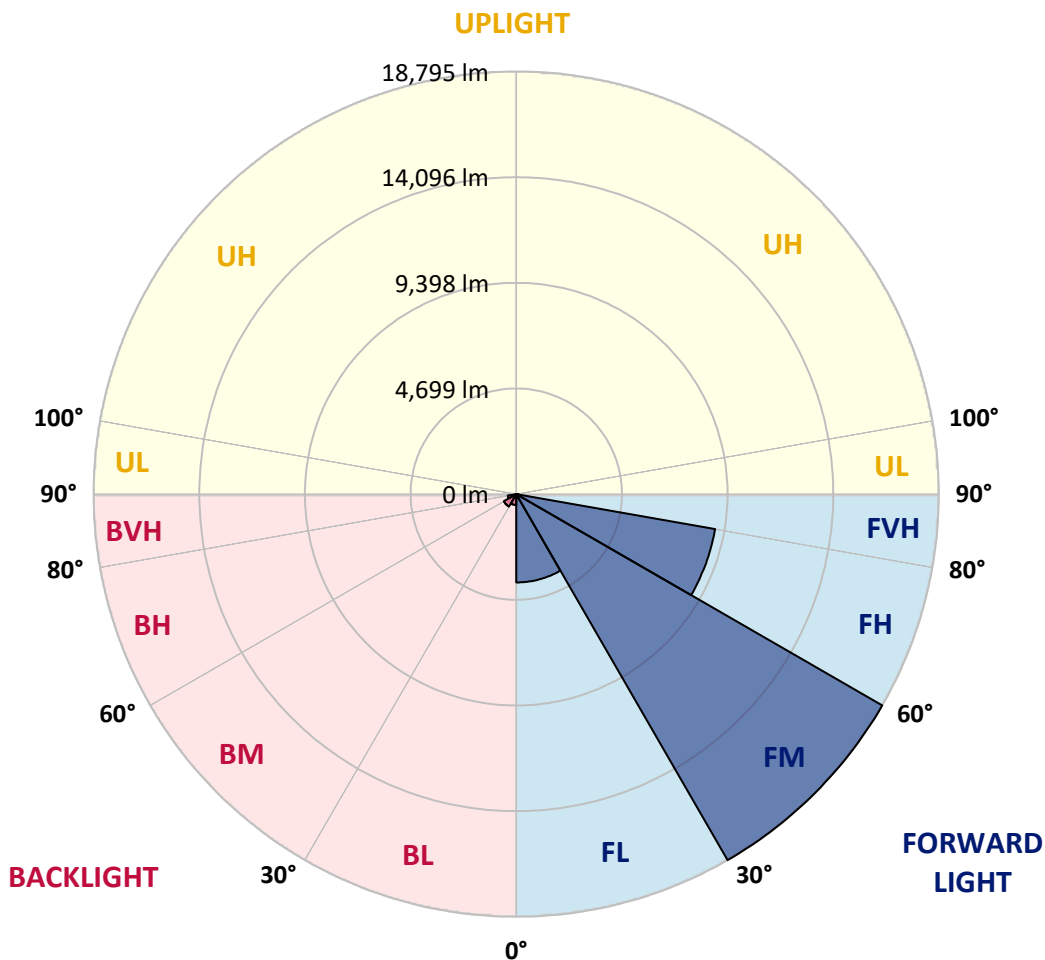
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3927.8	11.8			
FM (30°-60°)	18795.1	56.4			
FH (60°-80°)	8980.2	27.0			G4/12000
FVH (80°-90°)	98.1	0.3			G1/100
BL (0°-30°)	482.7	1.4	B1/500		
BM (30°-60°)	638.3	1.9	B1/1000		
BH (60°-80°)	381.4	1.1	B1/500		G1/500
BVH (80°-90°)	8.2	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-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3189.7	3189.7	3189.7	3189.7	3189.7	3189.7	3189.7	3189.7	3189.7	3189.7	3189.7
2.5°	4846.4	4754.7	4658.3	4630.7	4451.8	4249.8	4061.7	3878.1	3570.6	3575.2	3364.1
5°	6246.2	6131.5	6053.5	6035.1	5755.2	5406.4	5121.8	4603.2	4093.8	3979.0	3593.5
7.5°	7398.2	7361.5	7246.7	7150.3	6943.8	6517.0	6182.0	5438.5	4662.9	4534.4	3873.5
10°	8095.8	8150.8	8201.3	8077.4	7916.8	7609.3	7150.3	6347.2	5310.0	5149.3	4236.1
12.5°	8839.3	8747.5	8779.6	8880.6	8669.4	8600.6	8031.5	7283.4	6067.2	5759.7	4695.0
15°	9032.0	9068.7	9146.7	9440.5	9582.7	9385.4	8894.3	8040.7	6852.0	6425.2	5121.8
17.5°	9160.5	9142.2	9238.5	9679.1	9894.8	10083.0	9775.5	8885.1	7535.9	7154.9	5654.2
20°	9321.1	9220.2	9431.3	9711.2	10211.5	10606.2	10592.4	9734.2	8251.8	7847.9	6182.0
22.5°	9917.8	9839.8	10009.6	10037.1	10385.9	10936.6	11069.7	10427.2	8986.1	8490.5	6751.1
25°	11019.2	11161.5	10959.6	10785.2	10890.7	11253.3	11349.7	11042.2	9725.0	9270.7	7320.2
27.5°	12630.1	12611.8	12212.5	11987.6	11735.2	11689.3	11758.1	11615.9	10307.9	9982.0	7788.3
30°	14360.3	14208.9	13841.7	13300.2	12744.9	12400.7	12304.3	12157.4	10991.7	10519.0	8251.8
32.5°	15737.2	15819.8	15411.3	14704.6	13782.1	13318.5	12855.0	12694.4	11744.4	11326.7	8784.2
35°	17003.9	16893.7	16567.9	15971.2	15145.1	14397.1	13671.9	13327.7	12648.5	12235.4	9371.6
37.5°	17940.1	18077.8	17458.2	16889.1	16067.6	15448.0	14736.7	13984.0	13580.1	13029.4	10087.6
40°	18825.9	18610.2	18192.5	17669.3	16907.5	16434.8	15966.7	14791.8	14571.5	13860.1	10895.3
42.5°	18669.8	18683.6	18454.1	18031.9	17481.2	17210.4	17049.8	15773.9	15471.0	15016.6	11684.7
45°	18031.9	18087.0	18165.0	17958.5	18004.4	17733.6	18165.0	16902.9	16604.6	16122.7	12593.4
47.5°	17329.7	17421.5	17403.1	17779.5	18206.3	18298.1	19376.6	18155.8	18027.3	17761.1	13850.9
50°	16164.0	16200.7	16554.1	17237.9	17820.8	18780.0	20285.3	19523.5	19720.8	19197.6	15347.1
52.5°	14172.2	14305.3	15214.0	16191.5	17366.4	19023.2	20900.3	21556.6	22056.8	21519.9	16783.6
55°	11652.6	11836.2	12731.1	14562.3	16283.3	18656.1	21460.2	22630.5	23644.8	22832.4	17655.6
57.5°	9376.2	9394.6	10197.7	12088.6	14745.9	17935.5	21744.8	23153.7	24516.8	23865.1	18720.3
60°	7145.8	7072.3	7792.9	9431.3	12157.4	16164.0	21033.4	23419.9	25604.5	25228.1	20000.8
62.5°	4598.6	4483.9	5268.7	6865.8	9495.5	13213.0	19610.7	23424.5	27302.6	27160.3	22144.0
65°	2276.4	2198.3	2873.0	4208.5	6572.1	10105.9	17582.1	23337.3	29377.0	29468.8	24232.2
67.5°	1202.4	1230.0	1445.7	2134.1	3790.9	7141.2	14525.6	22313.8	30437.1	30951.2	24737.1
68°	1106.1	1115.2	1285.0	1776.1	3290.6	6622.6	13800.4	22015.5	30519.8	31153.1	24457.1
70°	899.5	913.3	973.0	1115.2	1780.7	4309.5	10647.5	19482.2	29276.0	29854.3	22139.4
72.5°	716.0	757.3	794.0	853.6	1046.4	2262.6	6622.6	15181.9	24186.3	24250.6	17233.3
75°	546.1	578.3	651.7	702.2	816.9	1243.7	3152.9	9256.9	15870.3	15090.1	10151.8
77.5°	422.2	449.8	481.9	550.7	683.8	839.9	963.8	3928.6	6741.9	5548.6	2868.4
80°	252.4	270.8	376.3	431.4	596.6	569.1	380.9	1092.3	1367.7	1078.5	523.2
82.5°	146.9	160.6	215.7	330.4	417.6	307.5	224.9	339.6	335.0	293.7	174.4
85°	4.6	9.2	119.3	197.3	146.9	82.6	137.7	142.3	119.3	110.1	78.0
87.5°	0.0	4.6	32.1	27.5	32.1	18.4	27.5	36.7	45.9	41.3	32.1
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°	3189.7	3189.7	3189.7	3189.7	3189.7	3189.7	3189.7	3189.7	3189.7	3189.7	3189.7
2.5°	3221.8	3120.8	2895.9	2726.1	2542.5	2432.4	2322.3	2253.4	2216.7	2193.8	2212.1
5°	3304.4	3093.3	2730.7	2409.5	2198.3	2056.1	1913.8	1840.4	1771.5	1734.8	1757.8
7.5°	3488.0	3171.3	2570.1	2221.3	1973.5	1753.2	1574.2	1431.9	1349.3	1275.9	1289.6
10°	3712.9	3217.2	2574.7	2111.1	1753.2	1404.4	1151.9	973.0	872.0	807.7	803.2
12.5°	3942.3	3396.2	2593.0	2001.0	1482.4	1055.6	757.3	624.2	564.5	532.4	532.4
15°	4291.1	3556.8	2547.1	1799.1	1124.4	688.4	518.6	472.7	449.8	422.2	426.8
17.5°	4594.0	3813.8	2524.2	1496.2	771.0	495.7	431.4	380.9	358.0	330.4	330.4
20°	5002.5	3974.5	2400.3	1156.5	532.4	413.0	348.8	302.9	266.2	243.2	247.8
22.5°	5374.2	4098.4	2180.0	789.4	408.5	325.9	257.0	211.1	179.0	151.5	156.0
25°	5778.1	4222.3	1858.7	486.5	289.1	201.9	137.7	101.0	68.8	50.5	50.5
27.5°	6067.2	4259.0	1441.1	289.1	174.4	91.8	32.1	4.6	0.0	0.0	0.0
30°	6361.0	4272.8	995.9	156.0	68.8	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6696.0	4268.2	624.2	82.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
35°	6953.0	4190.2	298.3	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7343.1	4075.4	91.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7788.3	3868.9	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8187.6	3657.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8641.9	3396.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9440.5	3286.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10482.3	3198.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11124.8	2941.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11459.8	2675.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11955.5	2547.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12689.8	2556.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13837.2	2684.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14470.5	2556.3	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13933.5	2046.9	87.2	22.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0
68°	13470.0	1881.7	87.2	22.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	11134.0	1225.4	82.6	22.9	9.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8109.5	679.2	68.8	18.4	9.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	4717.9	339.6	50.5	18.4	9.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1230.0	169.8	41.3	22.9	13.8	4.6	0.0	0.0	0.0	0.0	0.0
80°	243.2	110.1	36.7	27.5	18.4	9.2	0.0	0.0	0.0	0.0	0.0
82.5°	114.7	78.0	36.7	27.5	22.9	13.8	4.6	0.0	0.0	0.0	0.0
85°	59.7	36.7	36.7	27.5	27.5	18.4	9.2	0.0	0.0	0.0	0.0
87.5°	27.5	13.8	13.8	13.8	13.8	9.2	4.6	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)