

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: P482006

Luminaire Tested: **IFLD-L-SA7D-730-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482006  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-730-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

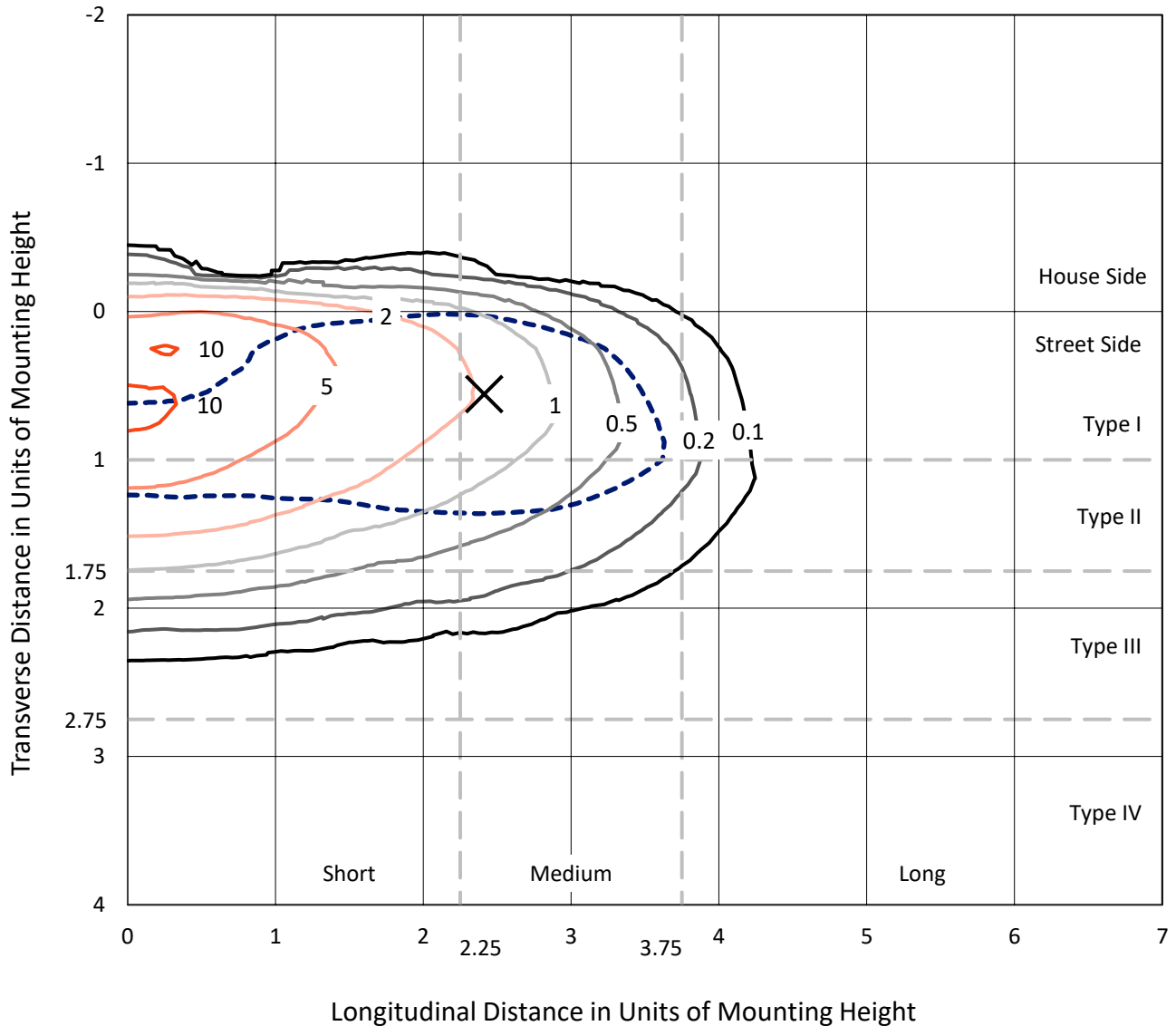
Lumens per Lamp: N/A  
Luminaire Lumens: 34921.9 lumens  
Efficiency: N/A  
Efficacy: 82.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

Input Watts (W): 422.6  
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

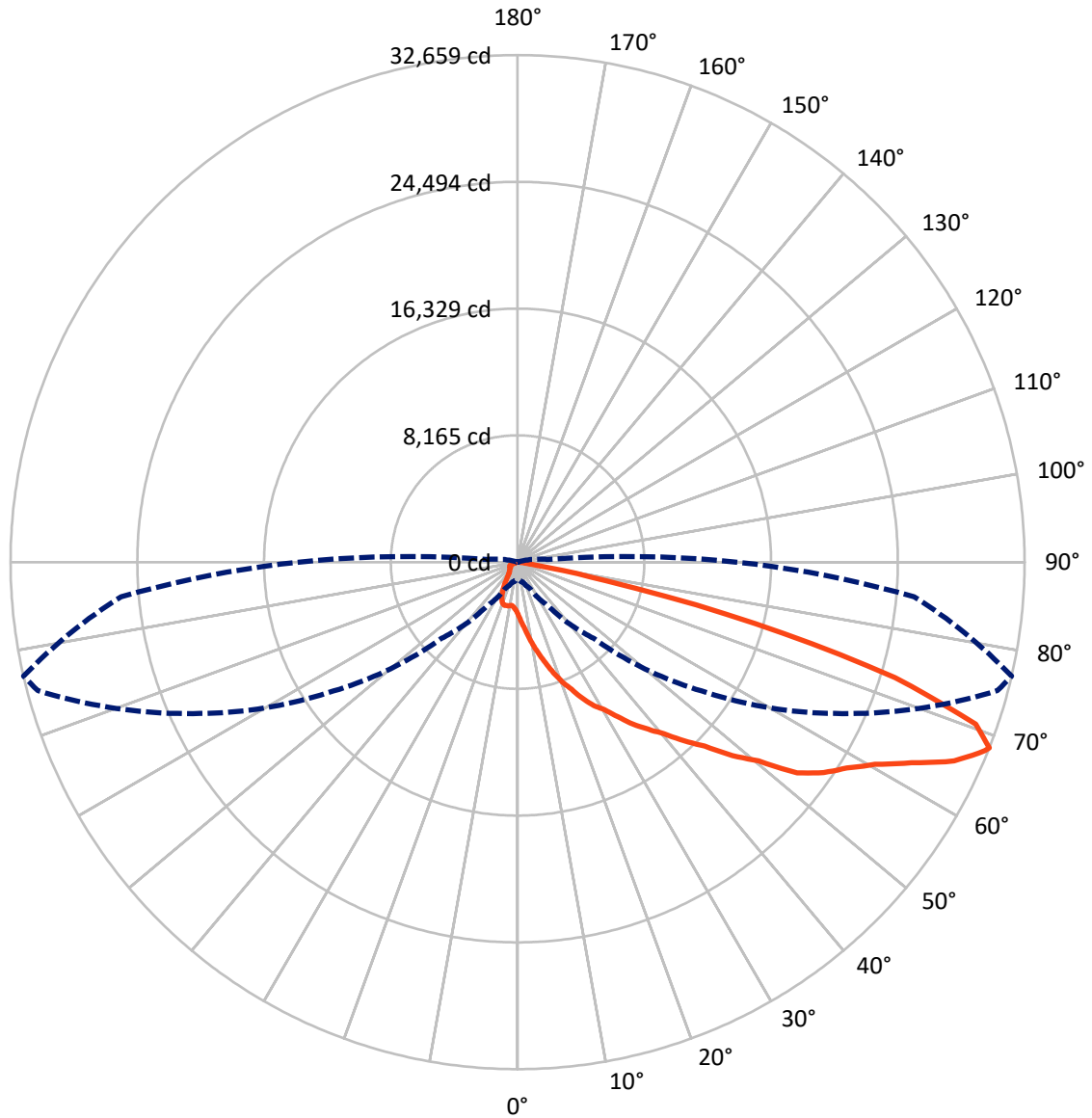
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 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	1583.7	0.0	1583.7
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	33338.3	0.0	33338.3
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	34921.9	0.0	34921.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.7	1.1
10°-20°	1440.7	4.1
20°-30°	2792.2	8.0
30°-40°	4867.7	13.9
40°-50°	7129.3	20.4
50°-60°	8375.8	24.0
60°-70°	7072.6	20.3
70°-80°	2741.5	7.9
80°-90°	111.5	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°	34921.9	100.0
0°-180°	34921.9	100.0

**Coefficient of Utilization**



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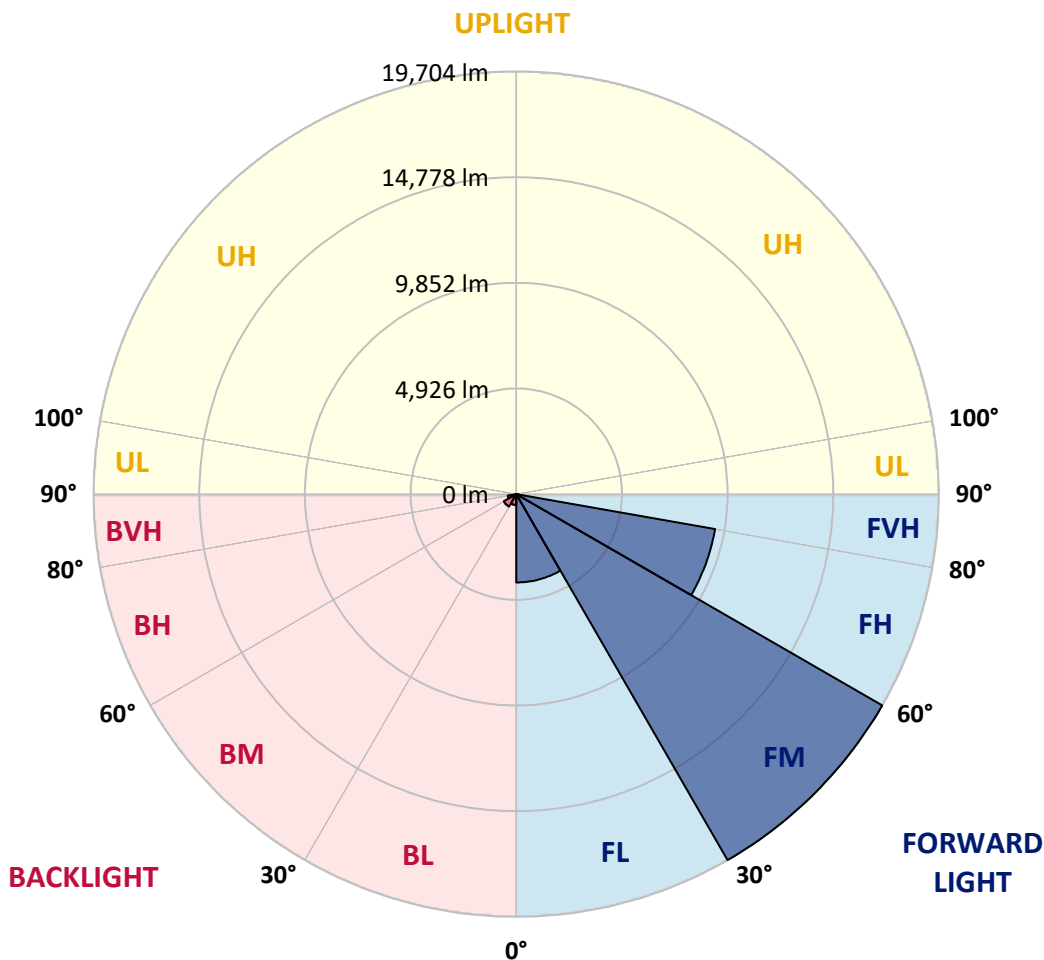
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4117.6	11.8			
FM (30°-60°)	19703.6	56.4			
FH (60°-80°)	9414.2	27.0			G4/12000
FVH (80°-90°)	102.8	0.3			G2/225
BL (0°-30°)	506.0	1.4	B2/1000		
BM (30°-60°)	669.2	1.9	B1/1000		
BH (60°-80°)	399.9	1.1	B1/500		G1/500
BVH (80°-90°)	8.6	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°	3343.8	3343.8	3343.8	3343.8	3343.8	3343.8	3343.8	3343.8	3343.8	3343.8	3343.8
2.5°	5080.7	4984.5	4883.4	4854.6	4666.9	4455.2	4258.0	4065.5	3743.2	3748.0	3526.7
5°	6548.1	6427.8	6346.1	6326.8	6033.3	5667.7	5369.4	4825.7	4291.6	4171.4	3767.2
7.5°	7755.8	7717.3	7597.0	7495.9	7279.4	6832.0	6480.8	5701.3	4888.2	4753.5	4060.7
10°	8487.1	8544.8	8597.7	8467.8	8299.4	7977.1	7495.9	6654.0	5566.6	5398.2	4440.8
12.5°	9266.5	9170.3	9203.9	9309.8	9088.5	9016.3	8419.7	7635.5	6360.5	6038.1	4921.9
15°	9468.6	9507.1	9588.8	9896.8	10045.9	9839.0	9324.2	8429.3	7183.2	6735.8	5369.4
17.5°	9603.3	9584.0	9685.1	10147.0	10373.1	10570.3	10248.0	9314.6	7900.1	7500.8	5927.5
20°	9771.7	9665.8	9887.1	10180.6	10705.1	11118.8	11104.4	10204.7	8650.7	8227.3	6480.8
22.5°	10397.1	10315.4	10493.4	10522.2	10887.9	11465.2	11604.8	10931.2	9420.5	8900.8	7077.4
25°	11551.8	11701.0	11489.3	11306.5	11417.1	11797.2	11898.3	11575.9	10195.1	9718.8	7674.0
27.5°	13240.6	13221.4	12802.8	12567.0	12302.4	12254.3	12326.5	12177.3	10806.1	10464.5	8164.7
30°	15054.4	14895.7	14510.8	13943.0	13360.9	13000.0	12899.0	12745.0	11523.0	11027.4	8650.7
32.5°	16497.8	16584.4	16156.2	15415.3	14448.2	13962.3	13476.4	13308.0	12312.0	11874.2	9208.8
35°	17825.7	17710.3	17368.7	16743.2	15877.2	15092.9	14332.8	13971.9	13259.8	12826.8	9824.6
37.5°	18807.2	18951.6	18302.0	17705.5	16844.2	16194.7	15449.0	14659.9	14236.5	13659.2	10575.2
40°	19735.8	19509.7	19071.9	18523.4	17724.7	17229.1	16738.4	15506.7	15275.8	14530.0	11421.9
42.5°	19572.2	19586.7	19346.1	18903.5	18326.1	18042.2	17873.8	16536.3	16218.8	15742.5	12249.5
45°	18903.5	18961.2	19043.0	18826.5	18874.6	18590.7	19043.0	17719.9	17407.2	16902.0	13202.1
47.5°	18167.3	18263.6	18244.3	18638.8	19086.3	19182.5	20313.2	19033.4	18898.6	18619.6	14520.4
50°	16945.3	16983.8	17354.2	18071.1	18682.1	19687.7	21265.8	20467.1	20674.0	20125.5	16088.9
52.5°	14857.2	14996.7	15949.3	16974.1	18205.8	19942.7	21910.5	22598.5	23122.9	22560.0	17594.8
55°	12215.8	12408.3	13346.4	15266.1	17070.4	19557.8	22497.5	23724.3	24787.6	23936.0	18508.9
57.5°	9829.4	9848.7	10690.6	12672.9	15458.6	18802.4	22795.8	24272.8	25701.8	25018.6	19625.1
60°	7491.1	7414.2	8169.5	9887.1	12745.0	16945.3	22050.0	24551.9	26842.0	26447.5	20967.5
62.5°	4820.9	4700.6	5523.3	7197.7	9954.5	13851.6	20558.5	24556.7	28622.2	28473.1	23214.3
65°	2386.4	2304.6	3011.9	4411.9	6889.7	10594.4	18432.0	24465.3	30796.9	30893.1	25403.5
67.5°	1260.6	1289.4	1515.5	2237.2	3974.1	7486.3	15227.7	23392.4	31908.3	32447.2	25932.7
68°	1159.5	1169.1	1347.2	1862.0	3449.7	6942.7	14467.5	23079.6	31994.9	32658.9	25639.2
70°	943.0	957.4	1020.0	1169.1	1866.8	4517.8	11162.1	20423.8	30691.1	31297.3	23209.5
72.5°	750.6	793.9	832.3	894.9	1097.0	2372.0	6942.7	15915.7	25355.4	25422.7	18066.3
75°	572.5	606.2	683.2	736.1	856.4	1303.9	3305.3	9704.3	16637.4	15819.4	10642.5
77.5°	442.6	471.5	505.2	577.4	716.9	880.5	1010.4	4118.4	7067.7	5816.8	3007.0
80°	264.6	283.9	394.5	452.3	625.5	596.6	399.3	1145.1	1433.8	1130.6	548.5
82.5°	154.0	168.4	226.1	346.4	437.8	322.4	235.8	356.0	351.2	307.9	182.8
85°	4.8	9.6	125.1	206.9	154.0	86.6	144.3	149.1	125.1	115.5	81.8
87.5°	0.0	4.8	33.7	28.9	33.7	19.2	28.9	38.5	48.1	43.3	33.7
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°	3343.8	3343.8	3343.8	3343.8	3343.8	3343.8	3343.8	3343.8	3343.8	3343.8	3343.8
2.5°	3377.5	3271.7	3035.9	2857.9	2665.4	2550.0	2434.5	2362.3	2323.8	2299.8	2319.0
5°	3464.1	3242.8	2862.7	2525.9	2304.6	2155.4	2006.3	1929.3	1857.1	1818.7	1842.7
7.5°	3656.6	3324.6	2694.3	2328.7	2068.8	1837.9	1650.3	1501.1	1414.5	1337.5	1352.0
10°	3892.3	3372.7	2699.1	2213.2	1837.9	1472.2	1207.6	1020.0	914.1	846.8	842.0
12.5°	4132.9	3560.3	2718.4	2097.7	1554.0	1106.6	793.9	654.3	591.8	558.1	558.1
15°	4498.5	3728.7	2670.3	1886.0	1178.8	721.7	543.7	495.6	471.5	442.6	447.4
17.5°	4816.1	3998.2	2646.2	1568.5	808.3	519.6	452.3	399.3	375.3	346.4	346.4
20°	5244.3	4166.6	2516.3	1212.4	558.1	433.0	365.7	317.5	279.1	255.0	259.8
22.5°	5634.0	4296.5	2285.4	827.5	428.2	341.6	269.4	221.3	187.6	158.8	163.6
25°	6057.4	4426.4	1948.6	510.0	303.1	211.7	144.3	105.8	72.2	52.9	52.9
27.5°	6360.5	4464.9	1510.7	303.1	182.8	96.2	33.7	4.8	0.0	0.0	0.0
30°	6668.4	4479.3	1044.0	163.6	72.2	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	7019.6	4474.5	654.3	86.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	7289.1	4392.7	312.7	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7698.0	4272.4	96.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8164.7	4055.9	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8583.3	3834.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9059.6	3560.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9896.8	3444.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10988.9	3353.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11662.5	3084.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12013.7	2805.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	12533.3	2670.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13303.1	2679.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14506.0	2814.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	15169.9	2679.9	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	14607.0	2145.8	91.4	24.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0
68°	14121.1	1972.6	91.4	24.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	11672.1	1284.6	86.6	24.1	9.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8501.5	712.1	72.2	19.2	9.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	4946.0	356.0	52.9	19.2	9.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1289.4	178.0	43.3	24.1	14.4	4.8	0.0	0.0	0.0	0.0	0.0
80°	255.0	115.5	38.5	28.9	19.2	9.6	0.0	0.0	0.0	0.0	0.0
82.5°	120.3	81.8	38.5	28.9	24.1	14.4	4.8	0.0	0.0	0.0	0.0
85°	62.5	38.5	38.5	28.9	28.9	19.2	9.6	0.0	0.0	0.0	0.0
87.5°	28.9	14.4	14.4	14.4	14.4	9.6	4.8	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)