

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: P482087

Luminaire Tested: **IFLD-L-SA8B-740-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482087
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-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

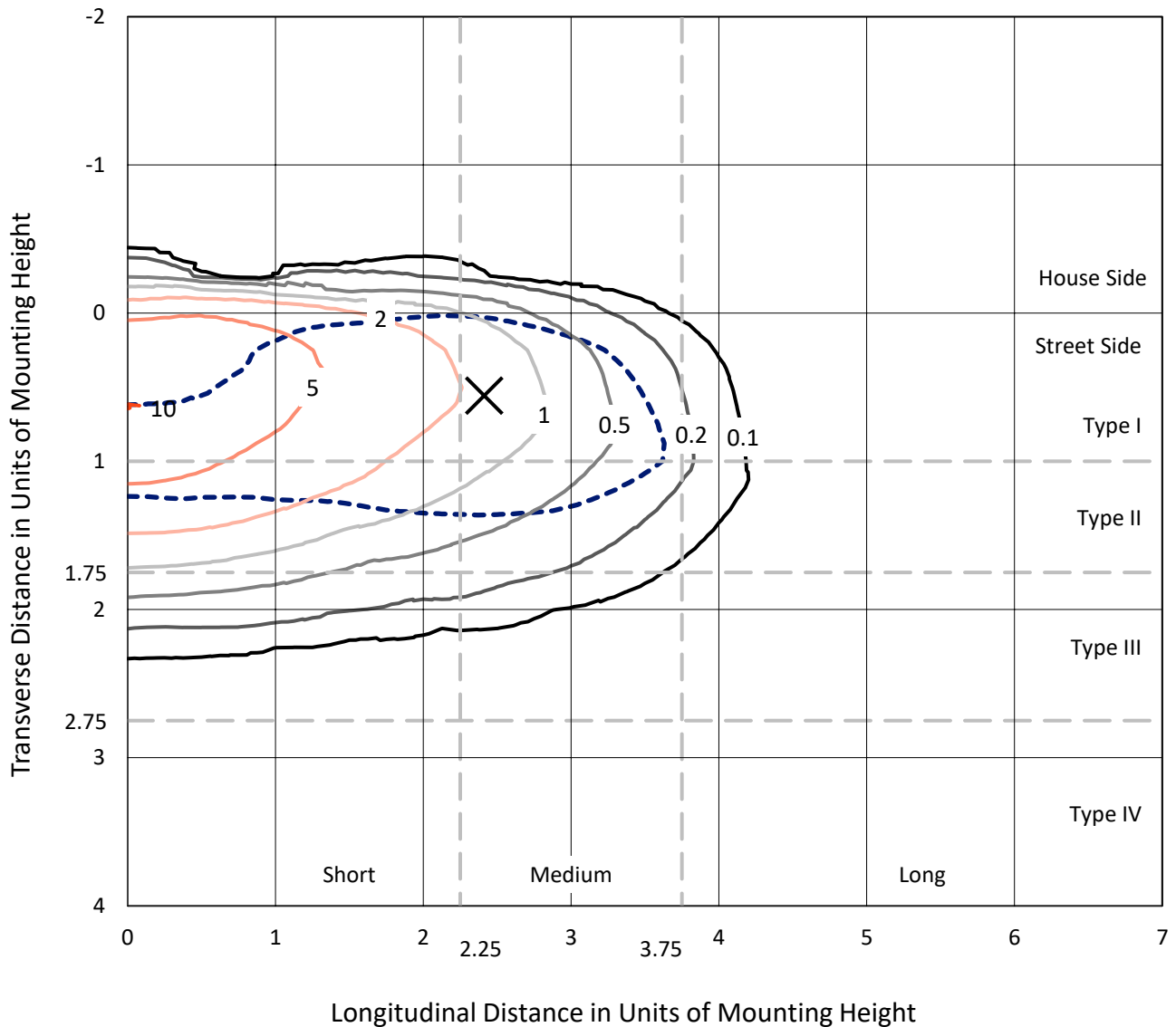
Lumens per Lamp: N/A
Luminaire Lumens: 31997.6 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 320
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

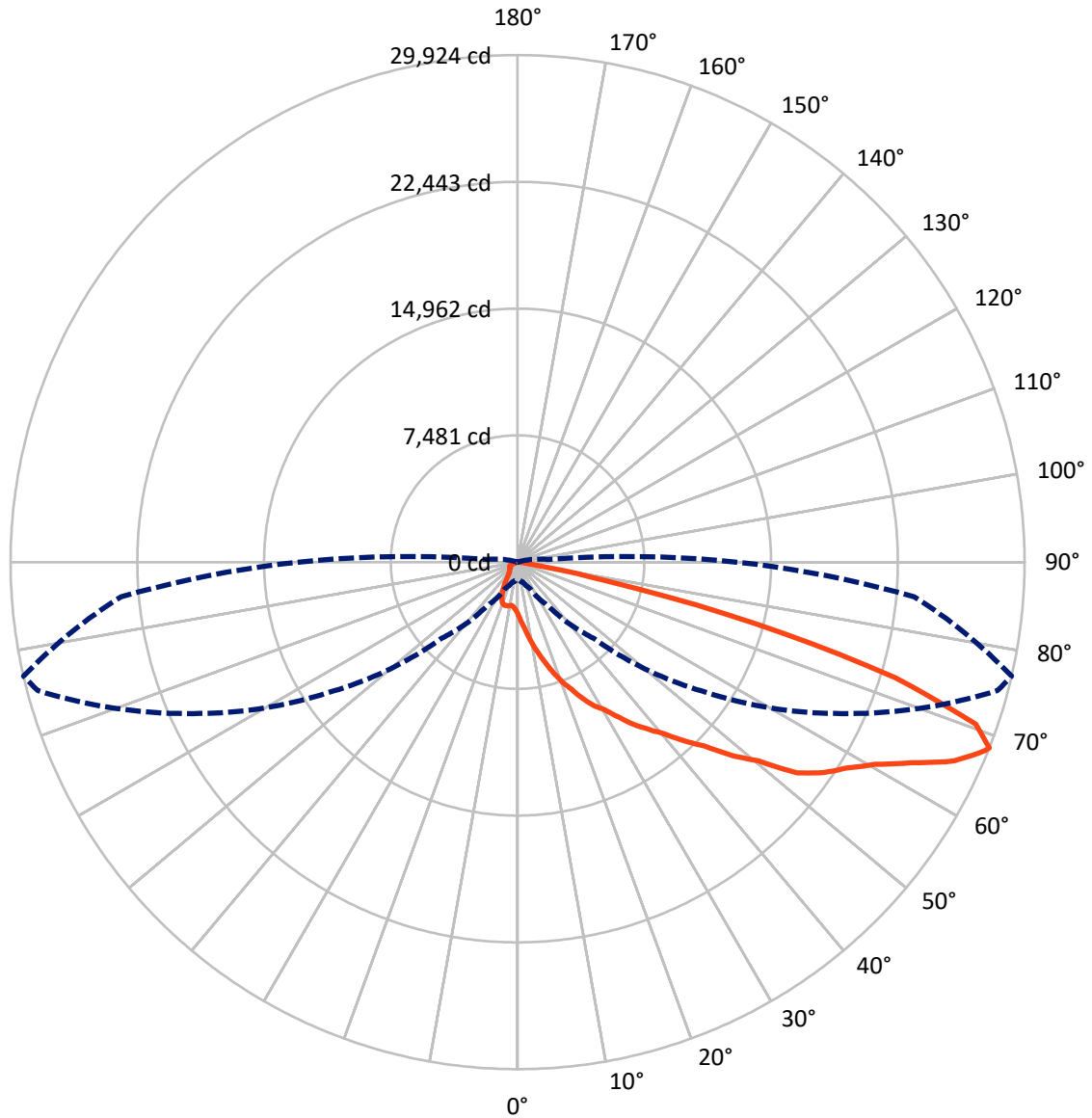
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 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
House Side	Lumens	1451.1	0.0	1451.1
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	30546.6	0.0	30546.6
	% Fixture	95.5	0.0	95.5
Total	Lumens	31997.6	0.0	31997.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.9	1.1
10°-20°	1320.1	4.1
20°-30°	2558.4	8.0
30°-40°	4460.1	13.9
40°-50°	6532.3	20.4
50°-60°	7674.4	24.0
60°-70°	6480.3	20.3
70°-80°	2511.9	7.9
80°-90°	102.2	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°	31997.6	100.0
0°-180°	31997.6	100.0

Coefficient of Utilization



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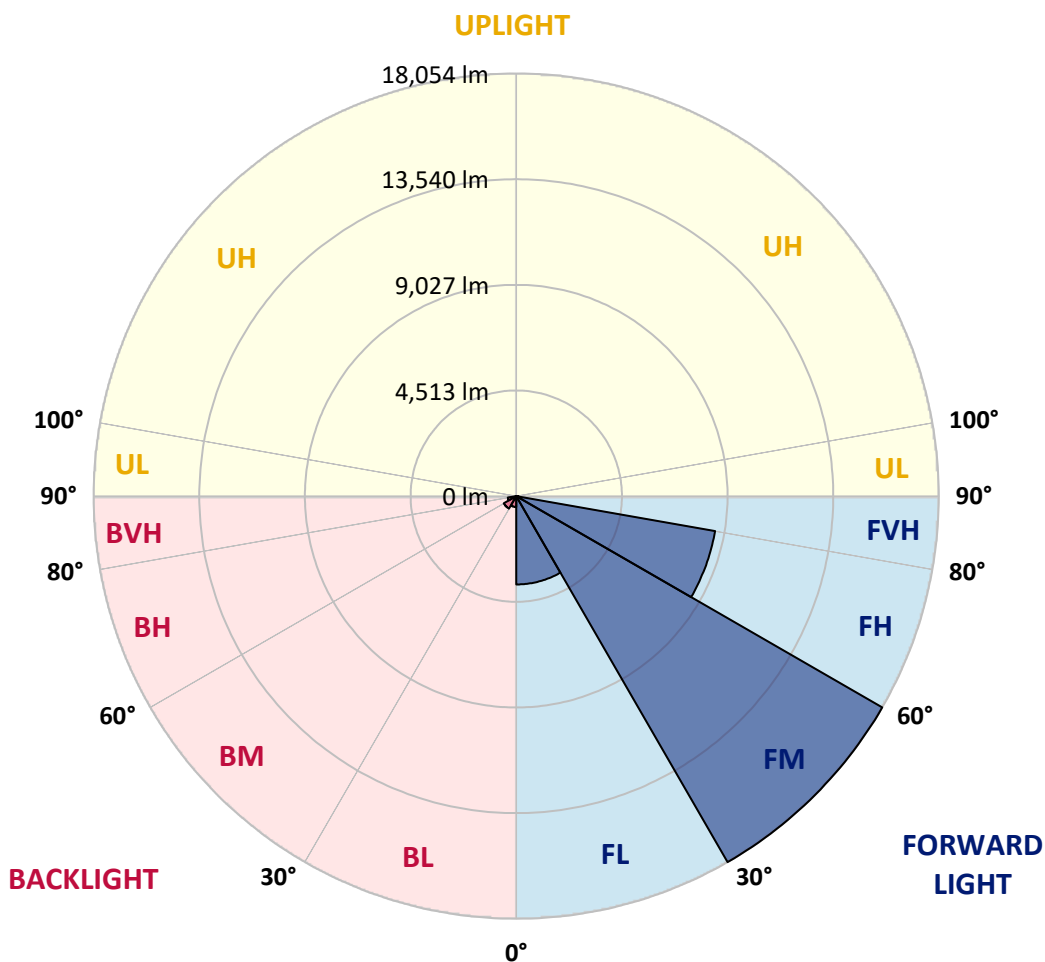
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3772.8	11.8			
FM (30°-60°)	18053.6	56.4			
FH (60°-80°)	8625.9	27.0			G4/12000
FVH (80°-90°)	94.2	0.3			G1/100
BL (0°-30°)	463.6	1.4	B1/500		
BM (30°-60°)	613.2	1.9	B1/1000		
BH (60°-80°)	366.4	1.1	B1/500		G1/500
BVH (80°-90°)	7.9	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3063.8	3063.8	3063.8	3063.8	3063.8	3063.8	3063.8	3063.8	3063.8	3063.8	3063.8
2.5°	4655.2	4567.1	4474.5	4448.0	4276.1	4082.2	3901.4	3725.1	3429.7	3434.1	3231.3
5°	5999.8	5889.6	5814.6	5797.0	5528.1	5193.1	4919.7	4421.6	3932.3	3822.1	3451.8
7.5°	7106.3	7071.0	6960.8	6868.2	6669.9	6259.9	5938.1	5223.9	4478.9	4355.5	3720.7
10°	7776.4	7829.3	7877.8	7758.7	7604.4	7309.1	6868.2	6096.8	5100.5	4946.2	4068.9
12.5°	8490.5	8402.4	8433.2	8530.2	8327.4	8261.3	7714.7	6996.1	5827.9	5532.5	4509.8
15°	8675.7	8710.9	8785.9	9068.0	9204.7	9015.1	8543.4	7723.5	6581.7	6171.7	4919.7
17.5°	8799.1	8781.5	8874.1	9297.3	9504.5	9685.2	9389.8	8534.6	7238.5	6872.7	5431.1
20°	8953.4	8856.4	9059.2	9328.1	9808.6	10187.8	10174.5	9350.2	7926.3	7538.3	5938.1
22.5°	9526.5	9451.6	9614.7	9641.1	9976.1	10505.2	10633.0	10015.8	8631.6	8155.5	6484.7
25°	10584.5	10721.2	10527.2	10359.7	10461.1	10809.3	10901.9	10606.5	9341.3	8904.9	7031.4
27.5°	12131.8	12114.2	11730.7	11514.7	11272.2	11228.1	11294.3	11157.6	9901.2	9588.2	7481.0
30°	13793.8	13648.3	13295.7	12775.5	12242.1	11911.4	11818.8	11677.8	10558.1	10104.0	7926.3
32.5°	15116.3	15195.7	14803.3	14124.4	13238.3	12793.1	12347.9	12193.6	11281.0	10879.9	8437.6
35°	16333.0	16227.2	15914.2	15341.1	14547.6	13829.1	13132.5	12801.9	12149.5	11752.7	9001.9
37.5°	17232.3	17364.6	16769.5	16222.8	15433.7	14838.6	14155.3	13432.3	13044.4	12515.4	9689.6
40°	18083.1	17876.0	17474.8	16972.2	16240.4	15786.4	15336.7	14208.2	13996.6	13313.3	10465.5
42.5°	17933.3	17946.5	17726.1	17320.5	16791.5	16531.4	16377.1	15151.6	14860.6	14424.2	11223.7
45°	17320.5	17373.4	17448.3	17250.0	17294.0	17034.0	17448.3	16236.0	15949.5	15486.6	12096.6
47.5°	16646.0	16734.2	16716.6	17078.0	17488.0	17576.2	18612.2	17439.5	17316.1	17060.4	13304.5
50°	15526.3	15561.6	15901.0	16557.9	17117.7	18039.1	19485.0	18753.2	18942.8	18440.2	14741.6
52.5°	13613.1	13740.9	14613.8	15552.7	16681.3	18272.7	20075.7	20706.1	21186.6	20670.9	16121.4
55°	11192.9	11369.2	12228.8	13987.8	15640.9	17920.0	20613.6	21737.7	22711.9	21931.7	16959.0
57.5°	9006.3	9023.9	9795.4	11611.7	14164.1	17227.9	20886.9	22240.2	23549.5	22923.5	17981.8
60°	6863.8	6793.3	7485.4	9059.2	11677.8	15526.3	20203.6	22495.9	24594.3	24232.8	19211.7
62.5°	4417.2	4307.0	5060.8	6594.9	9120.9	12691.7	18837.0	22500.3	26225.4	26088.8	21270.4
65°	2186.6	2111.6	2759.6	4042.5	6312.8	9707.2	16888.5	22416.6	28218.0	28306.2	23276.2
67.5°	1155.0	1181.4	1388.6	2049.9	3641.3	6859.4	13952.5	21433.5	29236.3	29730.1	23761.1
68°	1062.4	1071.2	1234.3	1706.0	3160.8	6361.3	13256.0	21147.0	29315.7	29924.0	23492.2
70°	864.0	877.3	934.6	1071.2	1710.4	4139.5	10227.4	18713.5	28121.0	28676.5	21266.0
72.5°	687.7	727.4	762.6	820.0	1005.1	2173.3	6361.3	14582.9	23232.1	23293.8	16553.4
75°	524.6	555.5	626.0	674.5	784.7	1194.7	3028.6	8891.7	15244.2	14494.7	9751.3
77.5°	405.6	432.0	462.9	529.0	656.8	806.7	925.8	3773.6	6475.9	5329.7	2755.2
80°	242.5	260.1	361.5	414.4	573.1	546.6	365.9	1049.2	1313.7	1036.0	502.6
82.5°	141.1	154.3	207.2	317.4	401.2	295.4	216.0	326.2	321.8	282.1	167.5
85°	4.4	8.8	114.6	189.6	141.1	79.4	132.3	136.7	114.6	105.8	74.9
87.5°	0.0	4.4	30.9	26.5	30.9	17.6	26.5	35.3	44.1	39.7	30.9
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°	3063.8	3063.8	3063.8	3063.8	3063.8	3063.8	3063.8	3063.8	3063.8	3063.8	3063.8
2.5°	3094.7	2997.7	2781.7	2618.6	2442.2	2336.4	2230.6	2164.5	2129.2	2107.2	2124.8
5°	3174.0	2971.2	2623.0	2314.4	2111.6	1975.0	1838.3	1767.8	1701.6	1666.4	1688.4
7.5°	3350.4	3046.2	2468.7	2133.7	1895.6	1684.0	1512.1	1375.4	1296.1	1225.5	1238.8
10°	3566.4	3090.3	2473.1	2027.9	1684.0	1349.0	1106.5	934.6	837.6	775.9	771.5
12.5°	3786.8	3262.2	2490.7	1922.1	1423.9	1013.9	727.4	599.5	542.2	511.4	511.4
15°	4121.8	3416.5	2446.6	1728.1	1080.1	661.3	498.1	454.1	432.0	405.6	410.0
17.5°	4412.8	3663.4	2424.6	1437.1	740.6	476.1	414.4	365.9	343.9	317.4	317.4
20°	4805.1	3817.7	2305.6	1110.9	511.4	396.8	335.0	291.0	255.7	233.6	238.1
22.5°	5162.2	3936.7	2094.0	758.2	392.3	313.0	246.9	202.8	171.9	145.5	149.9
25°	5550.1	4055.7	1785.4	467.3	277.7	194.0	132.3	97.0	66.1	48.5	48.5
27.5°	5827.9	4091.0	1384.2	277.7	167.5	88.2	30.9	4.4	0.0	0.0	0.0
30°	6110.0	4104.2	956.6	149.9	66.1	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6431.8	4099.8	599.5	79.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	6678.7	4024.8	286.5	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7053.4	3914.6	88.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7481.0	3716.3	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7864.5	3513.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8301.0	3262.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9068.0	3156.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10068.7	3072.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10685.9	2825.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11007.7	2570.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11483.8	2446.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12189.2	2455.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13291.2	2578.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13899.6	2455.5	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13383.8	1966.1	83.8	22.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0
68°	12938.6	1807.4	83.8	22.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	10694.7	1177.0	79.4	22.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7789.6	652.4	66.1	17.6	8.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	4531.8	326.2	48.5	17.6	8.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1181.4	163.1	39.7	22.0	13.2	4.4	0.0	0.0	0.0	0.0	0.0
80°	233.6	105.8	35.3	26.5	17.6	8.8	0.0	0.0	0.0	0.0	0.0
82.5°	110.2	74.9	35.3	26.5	22.0	13.2	4.4	0.0	0.0	0.0	0.0
85°	57.3	35.3	35.3	26.5	26.5	17.6	8.8	0.0	0.0	0.0	0.0
87.5°	26.5	13.2	13.2	13.2	13.2	8.8	4.4	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)