

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: P481582

Luminaire Tested: **IFLD-L-SA8D-727-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481582
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-727-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

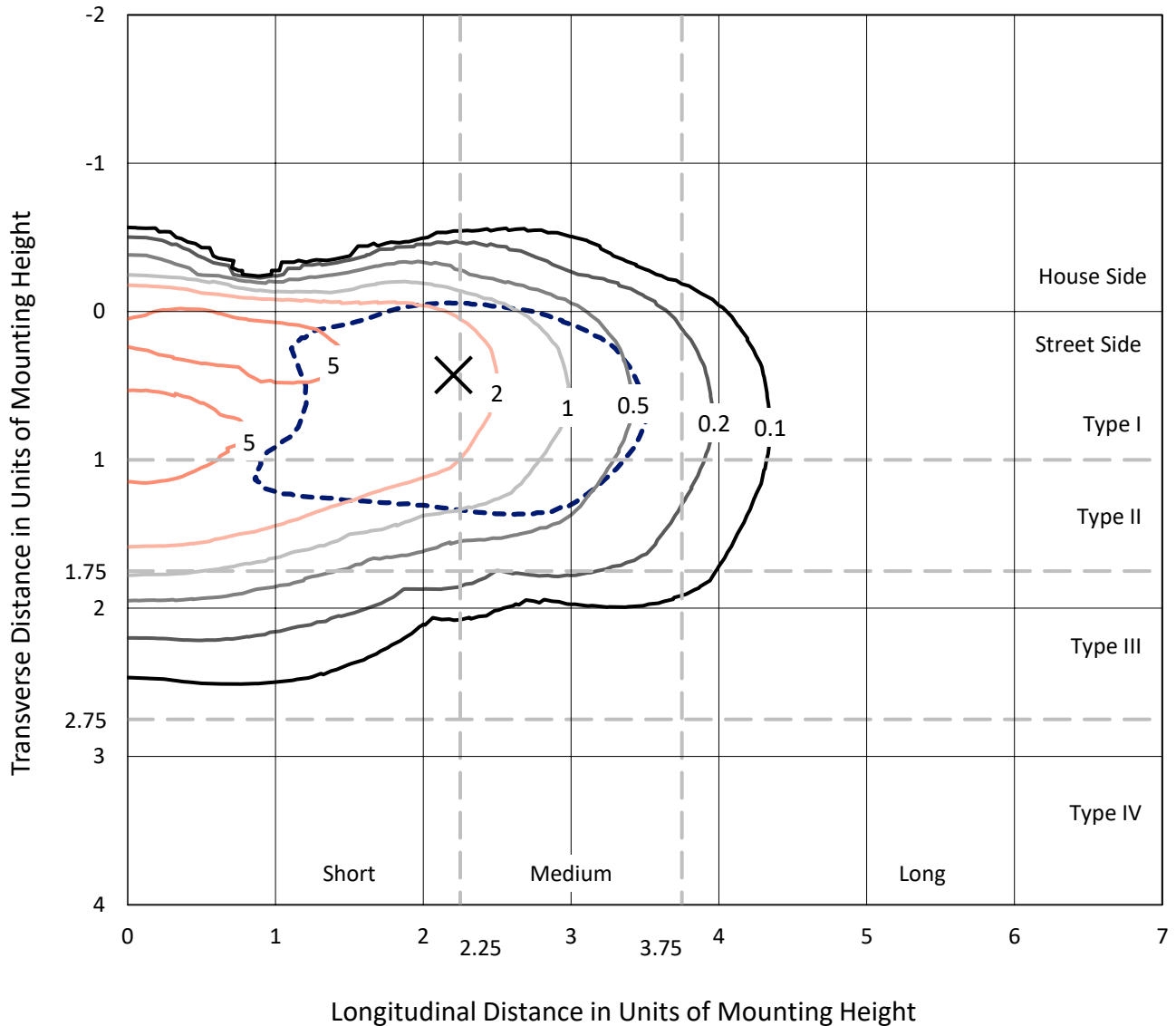
Lumens per Lamp: N/A
Luminaire Lumens: 33574.1 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 488.3
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

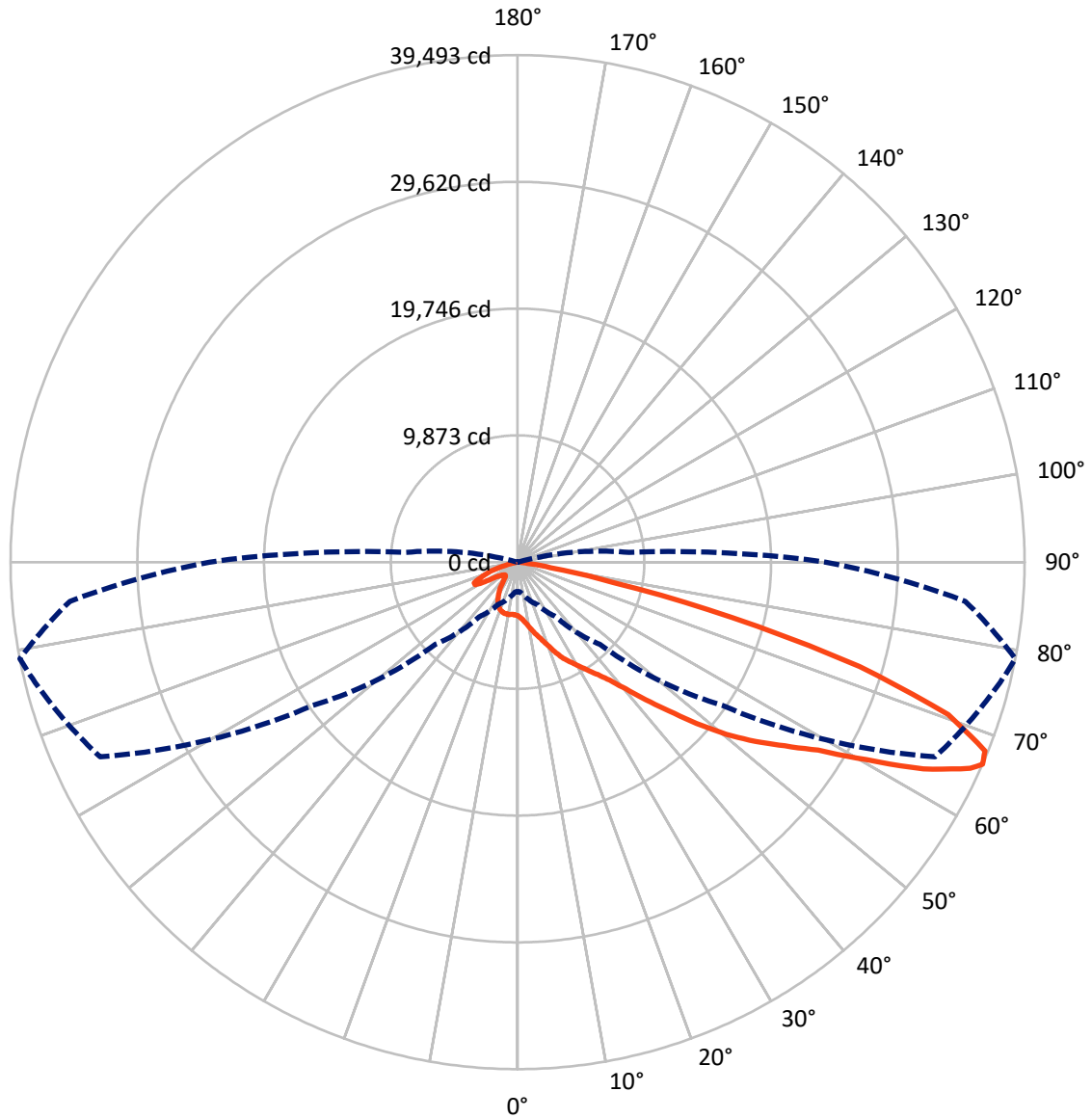
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 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
House Side	Lumens	2521.0	0.0	2521.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	31053.1	0.0	31053.1
	% Fixture	92.5	0.0	92.5
Total	Lumens	33574.1	0.0	33574.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.0	1.2
10°-20°	1087.2	3.2
20°-30°	1806.1	5.4
30°-40°	3102.2	9.2
40°-50°	5620.0	16.7
50°-60°	8883.5	26.5
60°-70°	9039.6	26.9
70°-80°	3447.3	10.3
80°-90°	193.3	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°	33574.1	100.0
0°-180°	33574.1	100.0

Coefficient of Utilization

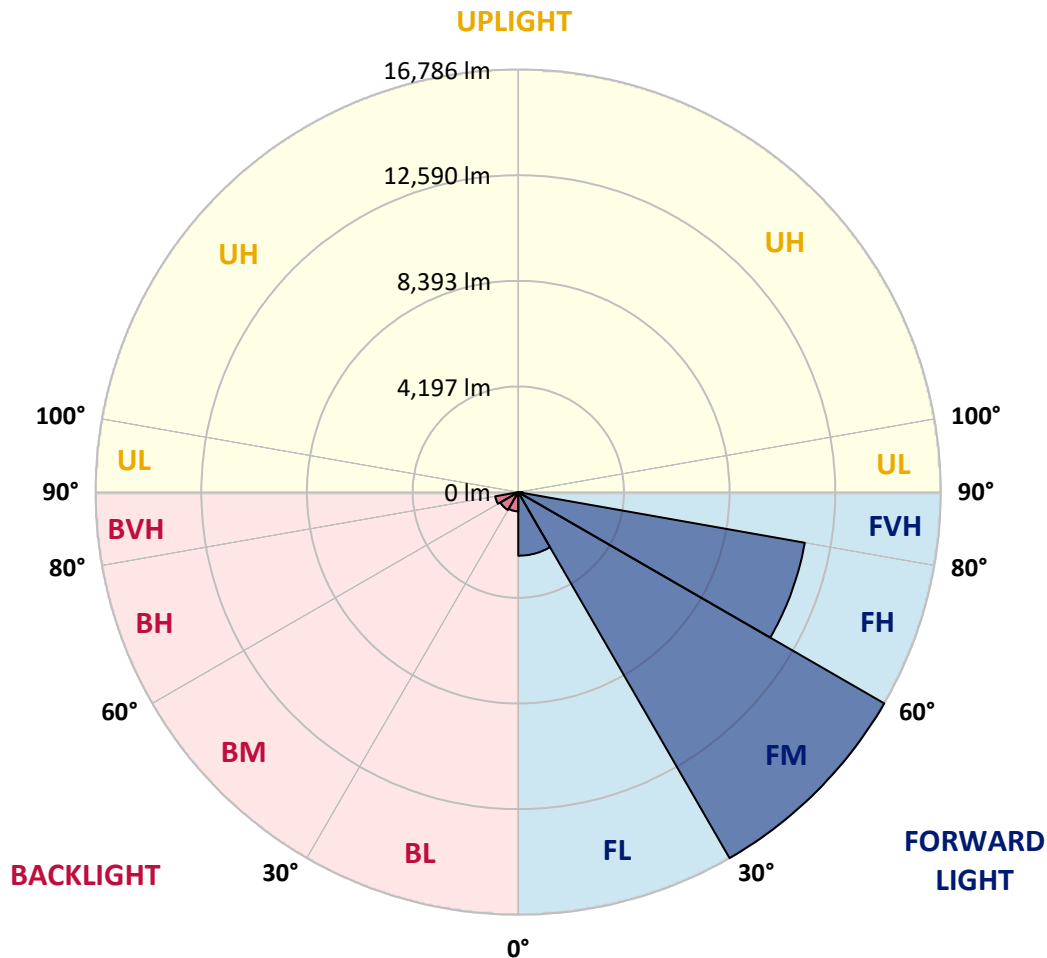


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2525.9	7.5			
FM (30°-60°)	16786.3	50.0			
FH (60°-80°)	11557.6	34.4			G4/12000
FVH (80°-90°)	183.4	0.5			G2/225
BL (0°-30°)	762.4	2.3	B2/1000		
BM (30°-60°)	819.3	2.4	B1/1000		
BH (60°-80°)	929.3	2.8	B2/1000		G2/1000
BVH (80°-90°)	9.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4177.0	4177.0	4177.0	4177.0	4177.0	4177.0	4177.0	4177.0	4177.0	4177.0	4177.0
2.5°	4730.9	4725.7	4705.0	4668.7	4622.2	4606.6	4539.3	4446.2	4394.4	4337.5	4311.6
5°	5056.9	5031.1	5093.2	5067.3	5077.6	4953.4	4870.6	4803.3	4606.6	4529.0	4404.8
7.5°	5129.4	5155.3	5150.1	5191.5	5232.9	5279.5	5222.6	5124.2	4927.5	4813.7	4679.1
10°	5129.4	5119.1	5160.5	5217.4	5336.4	5440.0	5595.2	5465.8	5315.7	5181.2	4937.9
12.5°	5036.2	5020.7	5062.1	5181.2	5393.4	5605.6	5776.4	5900.6	5688.4	5579.7	5264.0
15°	4751.6	4736.0	4906.8	5119.1	5398.6	5745.3	6102.5	6304.4	6159.4	5988.6	5636.7
17.5°	4399.6	4420.3	4601.5	4953.4	5398.6	5812.6	6268.1	6708.1	6687.4	6470.0	6102.5
20°	4280.5	4296.1	4477.2	4730.9	5238.1	5859.2	6526.9	7148.0	7272.3	7013.5	6532.1
22.5°	4508.3	4492.8	4508.3	4663.6	5129.4	5817.8	6697.7	7650.1	7872.7	7670.8	7096.3
25°	5284.7	5274.3	5144.9	4906.8	5067.3	5724.6	6785.7	7981.4	8493.8	8307.5	7551.8
27.5°	6423.4	6382.0	6180.1	5683.2	5357.1	5781.6	6930.6	8302.3	9037.3	8825.1	7960.7
30°	7644.9	7546.6	7282.6	6661.5	6107.7	5993.8	7013.5	8540.4	9642.9	9373.7	8317.8
32.5°	8488.6	8618.0	8535.2	7903.7	7054.9	6485.5	7148.0	8840.6	10201.9	10025.9	8928.6
35°	9793.0	9943.1	9596.3	9037.3	8183.2	7267.1	7432.7	9083.9	11061.1	10766.1	9497.9
37.5°	11438.9	11552.8	11304.4	10243.3	9342.7	8229.8	8017.6	9591.1	11801.3	11661.5	10227.8
40°	12267.1	12815.7	12463.8	11506.2	10538.3	9575.6	8985.5	10186.3	13090.1	12976.2	11237.1
42.5°	13411.0	13685.3	13504.2	12795.0	11785.7	11014.5	10181.2	11345.8	14653.2	14653.2	12603.5
45°	14622.2	14632.5	14622.2	14042.5	13147.0	12748.5	11796.1	12800.2	16335.4	16521.8	14239.1
47.5°	15616.0	15926.5	15900.6	15553.8	14860.3	14710.2	13411.0	14456.5	18447.2	18773.3	15833.3
50°	16128.4	16475.2	16578.7	16759.9	16728.8	17044.5	15176.0	16376.8	20269.2	21071.4	17883.0
52.5°	15988.6	16014.5	16651.2	17365.4	18504.2	19389.3	17303.3	18555.9	22401.7	23193.6	19466.9
55°	14844.7	14746.4	16055.9	16873.7	19228.8	20823.0	20248.5	21273.3	24063.2	25269.2	21102.5
57.5°	12334.4	12360.3	13571.4	15232.9	18690.5	21392.4	23395.5	24824.0	26392.4	27608.7	23400.6
60°	8514.5	8483.4	9839.6	11759.8	15528.0	20331.3	25207.1	29425.5	29508.3	31231.9	27525.9
62.5°	4787.8	4798.1	5828.2	7469.0	10864.4	16614.9	25119.1	34311.6	33959.7	35471.0	32215.4
65°	2712.2	2779.5	3488.6	4425.5	6506.2	11154.3	21604.6	36257.8	37391.3	38737.1	35062.1
66°	2293.0	2339.5	2945.1	3654.2	5191.5	9047.6	19446.2	35880.0	38467.9	39492.8	35005.2
67.5°	1775.4	1837.5	2344.7	2898.6	3809.5	6262.9	15652.2	34001.1	38664.6	39265.0	34016.6
70°	1216.4	1257.8	1646.0	2199.8	2603.5	3203.9	9358.2	28110.8	35082.8	35590.1	29565.2
72.5°	854.0	874.7	1154.2	1666.7	2003.1	1832.3	4642.9	20000.0	26847.9	27836.5	22996.9
75°	615.9	636.6	791.9	1195.7	1563.1	1200.8	2127.3	12774.3	16464.8	17241.2	13850.9
77.5°	445.1	471.0	538.3	771.2	1133.5	843.7	1045.5	6671.8	7764.0	7629.4	5957.6
80°	269.2	295.0	398.6	496.9	828.2	595.2	574.5	2784.7	2753.6	2613.9	1873.7
82.5°	124.2	144.9	212.2	336.4	579.7	414.1	274.3	993.8	869.6	797.1	528.0
85°	36.2	46.6	124.2	253.6	295.0	201.9	165.6	341.6	357.1	305.4	176.0
87.5°	0.0	5.2	56.9	62.1	88.0	67.3	62.1	88.0	165.6	134.6	56.9
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°	4177.0	4177.0	4177.0	4177.0	4177.0	4177.0	4177.0	4177.0	4177.0	4177.0	4177.0
2.5°	4218.4	4182.2	4094.2	3959.6	3840.6	3778.5	3690.5	3612.8	3571.4	3566.3	3561.1
5°	4322.0	4223.6	4011.4	3768.1	3587.0	3390.3	3255.7	3157.4	3064.2	2976.2	3028.0
7.5°	4461.7	4306.4	3959.6	3643.9	3250.5	2996.9	2758.8	2619.1	2536.2	2458.6	2448.2
10°	4679.1	4482.4	3923.4	3354.0	2903.7	2531.1	2287.8	2085.9	1972.1	1837.5	1889.2
12.5°	4974.1	4622.2	3788.8	3090.1	2510.4	2117.0	1770.2	1444.1	1262.9	1123.2	1128.4
15°	5269.2	4808.5	3664.6	2769.2	2153.2	1635.6	1128.4	905.8	854.0	823.0	833.3
17.5°	5559.0	4958.6	3473.1	2443.1	1744.3	1040.4	823.0	776.4	750.5	719.5	719.5
20°	5911.0	5056.9	3235.0	2142.9	1200.8	771.2	703.9	672.9	631.5	590.1	595.2
22.5°	6252.6	5139.8	2960.7	1759.8	807.5	667.7	590.1	548.7	512.4	471.0	471.0
25°	6594.2	5165.6	2603.5	1262.9	652.2	533.1	460.7	403.7	367.5	331.3	336.4
27.5°	6827.1	5005.2	2267.1	807.5	522.8	403.7	320.9	274.3	243.3	207.0	207.0
30°	6961.7	4710.1	1904.8	569.4	393.4	274.3	191.5	144.9	113.9	88.0	82.8
32.5°	7096.3	4472.1	1495.9	434.8	258.8	144.9	72.5	25.9	0.0	0.0	0.0
35°	7365.4	4202.9	1004.1	243.3	88.0	5.2	0.0	0.0	0.0	0.0	0.0
37.5°	7536.2	3830.2	460.7	36.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7965.8	3643.9	113.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8664.6	3514.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9430.7	3462.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	10450.3	3602.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	11526.9	3980.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12707.1	4337.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13737.1	4767.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	15631.5	5781.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	19032.1	7774.3	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	22862.3	9254.7	56.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	24265.0	9218.4	98.3	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	24016.6	8711.2	98.3	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	22727.8	7738.1	88.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	19518.7	6392.3	88.0	15.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	14881.0	4979.3	82.8	20.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	8980.3	2650.1	67.3	25.9	10.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3576.6	931.7	51.8	20.7	10.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	967.9	279.5	31.1	20.7	15.5	5.2	0.0	0.0	0.0	0.0	0.0
82.5°	253.6	103.5	25.9	20.7	10.4	5.2	0.0	0.0	0.0	0.0	0.0
85°	98.3	41.4	20.7	15.5	15.5	10.4	5.2	0.0	0.0	0.0	0.0
87.5°	31.1	15.5	15.5	10.4	10.4	5.2	5.2	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)