

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: P481699

Luminaire Tested: **IFLD-L-SA8D-740-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481699
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-740-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

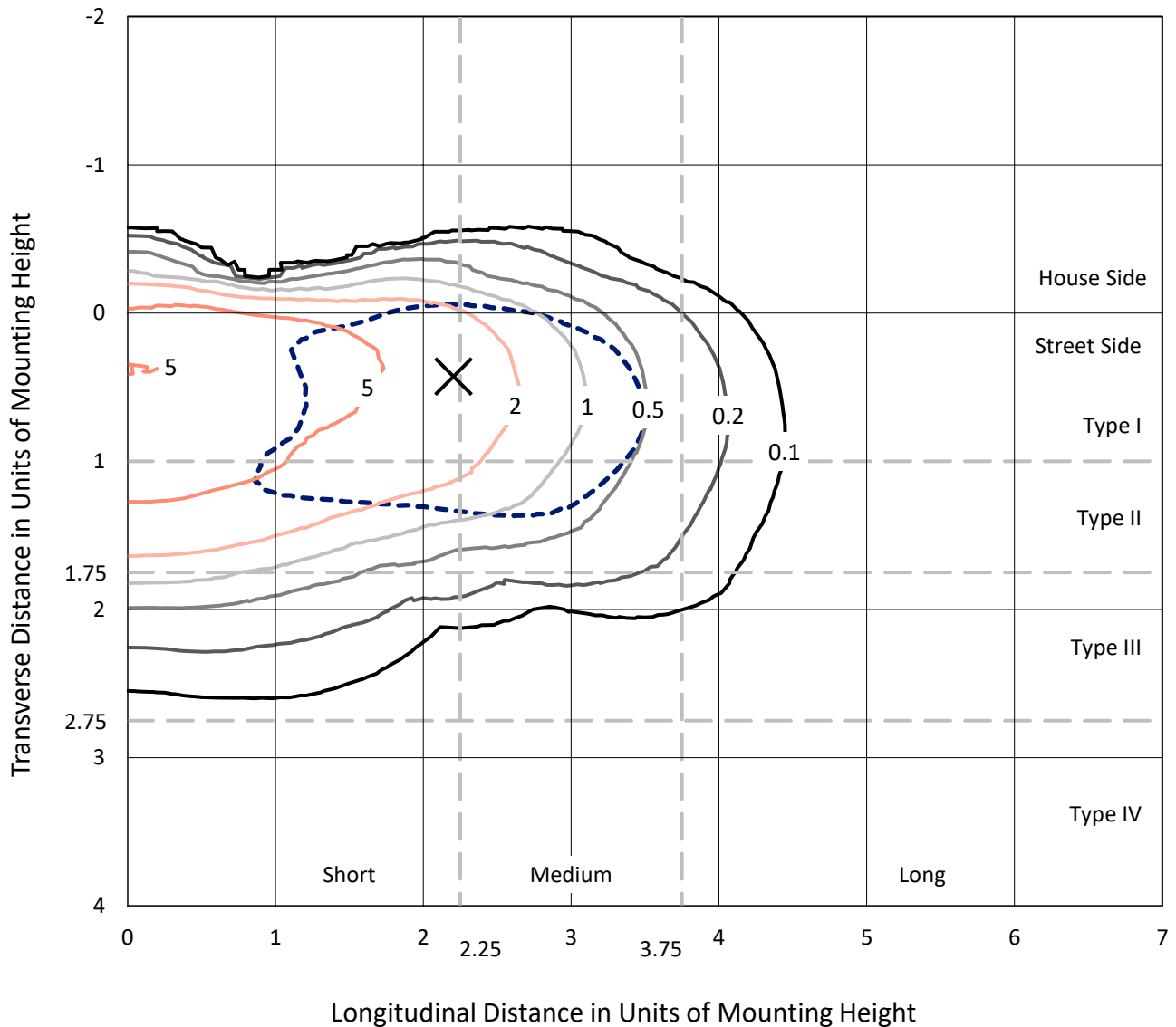
Lumens per Lamp: N/A
Luminaire Lumens: 40146 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

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

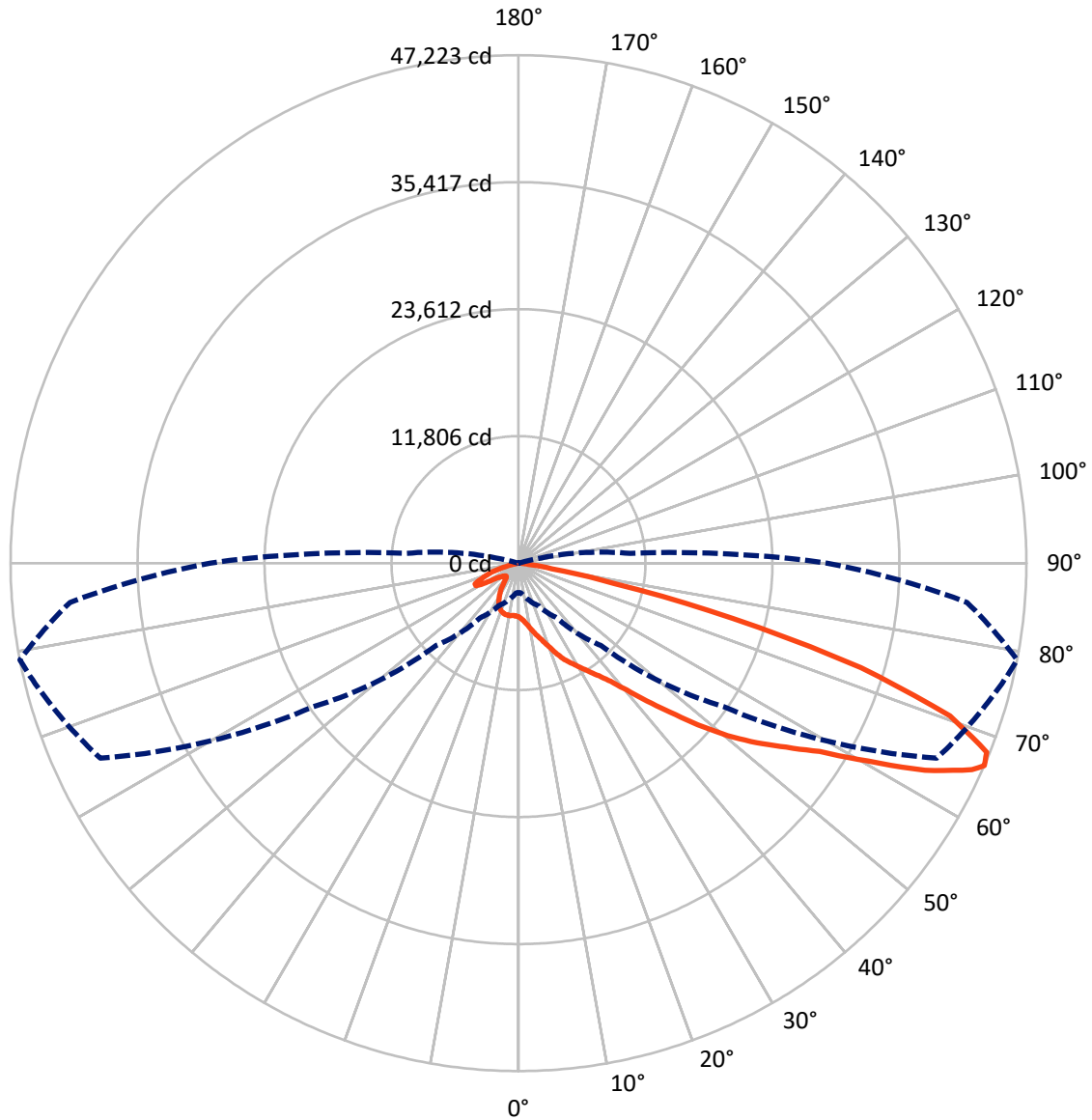
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 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	3014.4	0.0	3014.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	37131.6	0.0	37131.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	40146.0	0.0	40146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.3	1.2
10°-20°	1300.0	3.2
20°-30°	2159.6	5.4
30°-40°	3709.4	9.2
40°-50°	6720.0	16.7
50°-60°	10622.4	26.5
60°-70°	10809.1	26.9
70°-80°	4122.1	10.3
80°-90°	231.1	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°	40146.0	100.0
0°-180°	40146.0	100.0

Coefficient of Utilization



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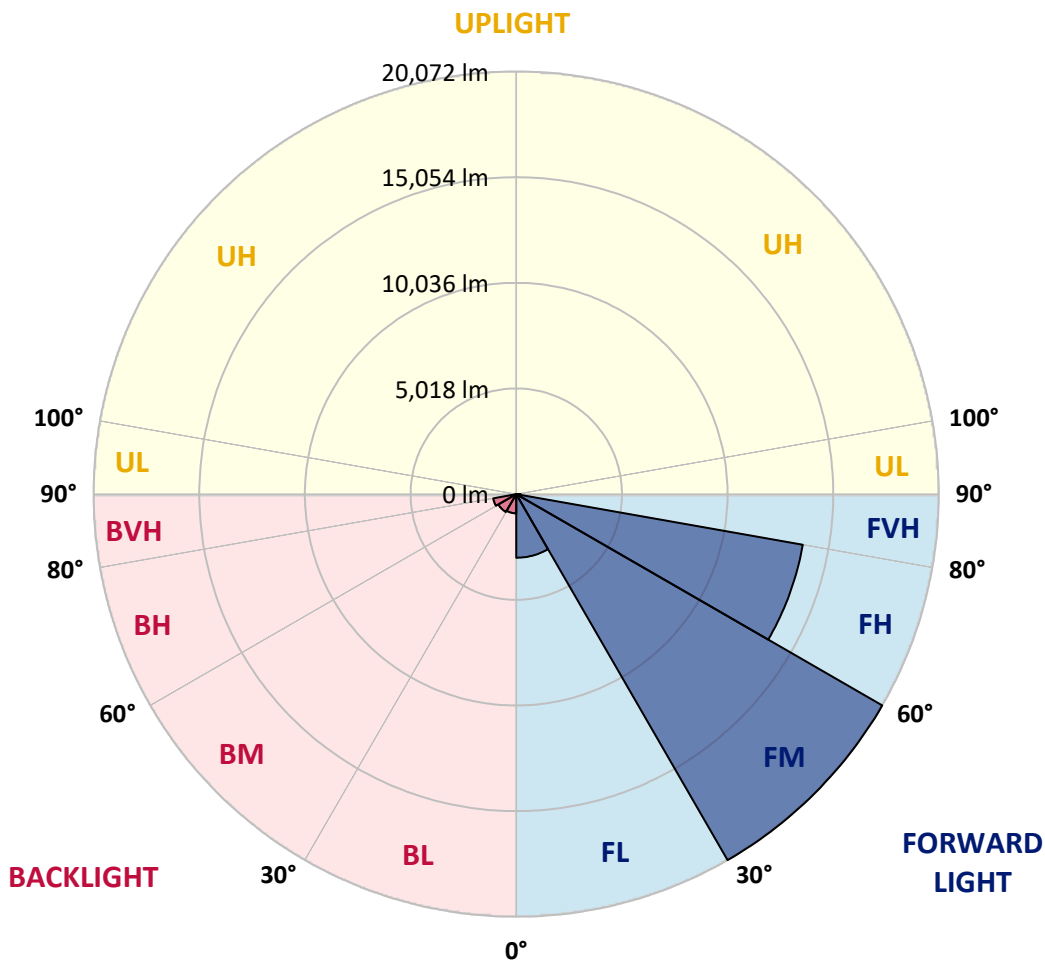
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3020.3	7.5			
FM (30°-60°)	20072.1	50.0			
FH (60°-80°)	13819.9	34.4			G5
FVH (80°-90°)	219.3	0.5			G2/225
BL (0°-30°)	911.6	2.3	B2/1000		
BM (30°-60°)	979.7	2.4	B1/1000		
BH (60°-80°)	1111.2	2.8	B3/2500		G3/2500
BVH (80°-90°)	11.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6
2.5°	5656.9	5650.7	5625.9	5582.6	5526.9	5508.3	5427.9	5316.5	5254.6	5186.5	5155.6
5°	6046.8	6015.9	6090.1	6059.2	6071.6	5923.0	5824.0	5743.5	5508.3	5415.5	5267.0
7.5°	6133.5	6164.4	6158.2	6207.7	6257.2	6312.9	6244.9	6127.3	5892.1	5755.9	5595.0
10°	6133.5	6121.1	6170.6	6238.7	6381.0	6504.8	6690.5	6535.7	6356.3	6195.3	5904.5
12.5°	6022.0	6003.5	6053.0	6195.3	6449.1	6702.9	6907.1	7055.6	6801.9	6671.9	6294.4
15°	5681.6	5663.1	5867.3	6121.1	6455.3	6870.0	7297.0	7538.4	7365.1	7160.8	6740.0
17.5°	5260.8	5285.5	5502.2	5923.0	6455.3	6950.4	7495.1	8021.1	7996.4	7736.4	7297.0
20°	5118.4	5137.0	5353.6	5656.9	6263.4	7006.1	7804.5	8547.2	8695.8	8386.3	7810.7
22.5°	5390.8	5372.2	5390.8	5576.4	6133.5	6956.6	8008.8	9147.6	9413.7	9172.3	8485.3
25°	6319.1	6306.7	6152.0	5867.3	6059.2	6845.2	8114.0	9543.7	10156.4	9933.6	9030.0
27.5°	7680.7	7631.2	7389.8	6795.7	6405.8	6913.3	8287.3	9927.4	10806.3	10552.5	9518.9
30°	9141.4	9023.8	8708.1	7965.4	7303.2	7167.0	8386.3	10212.1	11530.4	11208.6	9946.0
32.5°	10150.2	10304.9	10205.9	9450.8	8435.8	7755.0	8547.2	10571.1	12198.8	11988.4	10676.3
35°	11709.9	11889.4	11474.7	10806.3	9785.1	8689.6	8887.6	10862.0	13226.2	12873.4	11357.1
37.5°	13678.0	13814.2	13517.1	12248.3	11171.4	9840.8	9587.0	11468.5	14111.3	13944.2	12229.8
40°	14668.3	15324.3	14903.5	13758.5	12601.1	11449.9	10744.4	12180.3	15652.4	15516.2	13436.7
42.5°	16036.1	16364.1	16147.5	15299.6	14092.7	13170.5	12174.1	13566.6	17521.5	17521.5	15070.6
45°	17484.4	17496.7	17484.4	16791.2	15720.4	15243.9	14105.1	15305.8	19533.0	19755.8	17026.4
47.5°	18672.7	19044.0	19013.1	18598.4	17769.1	17589.6	16036.1	17286.3	22058.1	22448.1	18932.6
50°	19285.4	19700.1	19823.9	20040.5	20003.3	20380.9	18146.6	19582.5	24236.7	25196.0	21383.5
52.5°	19118.3	19149.2	19910.5	20764.6	22126.2	23184.6	20690.3	22188.1	26786.7	27733.6	23277.4
55°	17750.5	17632.9	19198.8	20176.6	22992.7	24899.0	24212.0	25437.4	28773.4	30215.4	25233.2
57.5°	14748.8	14779.7	16228.0	18214.7	22349.0	25579.8	27975.0	29683.2	31558.5	33012.9	27981.2
60°	10181.2	10144.0	11765.6	14061.8	18567.5	24311.0	30141.2	35185.3	35284.4	37345.3	32913.9
62.5°	5725.0	5737.3	6969.0	8930.9	12991.0	19867.2	30036.0	41027.9	40607.0	42414.3	38521.3
65°	3243.1	3323.6	4171.5	5291.7	7779.8	13337.6	25833.5	43355.0	44710.4	46319.6	41925.3
66°	2741.8	2797.5	3521.6	4369.5	6207.7	10818.6	23252.6	42903.2	45997.8	47223.2	41857.2
67.5°	2122.9	2197.1	2803.7	3465.9	4555.2	7488.9	18716.0	40656.5	46233.0	46950.9	40675.1
70°	1454.5	1504.0	1968.2	2630.4	3113.1	3831.1	11190.0	33613.3	41950.1	42556.6	35352.4
72.5°	1021.2	1046.0	1380.2	1992.9	2395.2	2191.0	5551.7	23914.9	32103.1	33285.3	27498.4
75°	736.5	761.3	946.9	1429.7	1869.1	1435.9	2543.7	15274.8	19687.7	20616.1	16562.2
77.5°	532.3	563.2	643.7	922.2	1355.4	1008.8	1250.2	7977.8	9283.7	9122.8	7123.7
80°	321.8	352.8	476.6	594.2	990.3	711.8	687.0	3329.8	3292.6	3125.5	2240.5
82.5°	148.5	173.3	253.8	402.3	693.2	495.1	328.0	1188.3	1039.8	953.1	631.3
85°	43.3	55.7	148.5	303.3	352.8	241.4	198.1	408.5	427.1	365.2	210.4
87.5°	0.0	6.2	68.1	74.3	105.2	80.5	74.3	105.2	198.1	160.9	68.1
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°	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6	4994.6
2.5°	5044.2	5000.8	4895.6	4734.7	4592.4	4518.1	4412.9	4320.0	4270.5	4264.3	4258.1
5°	5167.9	5050.3	4796.6	4505.7	4289.1	4053.9	3893.0	3775.4	3664.0	3558.8	3620.7
7.5°	5335.0	5149.4	4734.7	4357.2	3886.8	3583.5	3298.8	3131.7	3032.7	2939.8	2927.5
10°	5595.0	5359.8	4691.4	4010.6	3472.1	3026.5	2735.6	2494.2	2358.1	2197.1	2259.0
12.5°	5947.8	5526.9	4530.5	3694.9	3001.7	2531.4	2116.7	1726.8	1510.2	1343.0	1349.2
15°	6300.6	5749.7	4381.9	3311.2	2574.7	1955.8	1349.2	1083.1	1021.2	984.1	996.5
17.5°	6647.1	5929.2	4152.9	2921.3	2085.7	1244.0	984.1	928.4	897.4	860.3	860.3
20°	7068.0	6046.8	3868.2	2562.3	1435.9	922.2	841.7	804.6	755.1	705.6	711.8
22.5°	7476.5	6145.8	3540.2	2104.3	965.5	798.4	705.6	656.1	612.7	563.2	563.2
25°	7885.0	6176.8	3113.1	1510.2	779.8	637.5	550.8	482.8	439.4	396.1	402.3
27.5°	8163.5	5984.9	2710.8	965.5	625.1	482.8	383.7	328.0	290.9	247.6	247.6
30°	8324.4	5632.1	2277.6	680.8	470.4	328.0	229.0	173.3	136.2	105.2	99.0
32.5°	8485.3	5347.4	1788.7	519.9	309.5	173.3	86.6	30.9	0.0	0.0	0.0
35°	8807.2	5025.6	1200.7	290.9	105.2	6.2	0.0	0.0	0.0	0.0	0.0
37.5°	9011.4	4580.0	550.8	43.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	9525.1	4357.2	136.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	10360.6	4202.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	11276.6	4140.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	12495.9	4307.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	13783.2	4759.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	15194.4	5186.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	16426.0	5700.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	18691.2	6913.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	22757.5	9296.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	27337.5	11066.2	68.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	29014.7	11022.9	117.6	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	28717.7	10416.3	117.6	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	27176.6	9252.8	105.2	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	23339.3	7643.6	105.2	18.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	17793.8	5954.0	99.0	24.8	6.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	10738.2	3168.8	80.5	30.9	12.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4276.7	1114.0	61.9	24.8	12.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	1157.4	334.2	37.1	24.8	18.6	6.2	0.0	0.0	0.0	0.0	0.0
82.5°	303.3	123.8	30.9	24.8	12.4	6.2	0.0	0.0	0.0	0.0	0.0
85°	117.6	49.5	24.8	18.6	18.6	12.4	6.2	0.0	0.0	0.0	0.0
87.5°	37.1	18.6	18.6	12.4	12.4	6.2	6.2	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)