

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: P481660

Luminaire Tested: **IFLD-L-SA8D-735-U-T2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481660
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-735-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

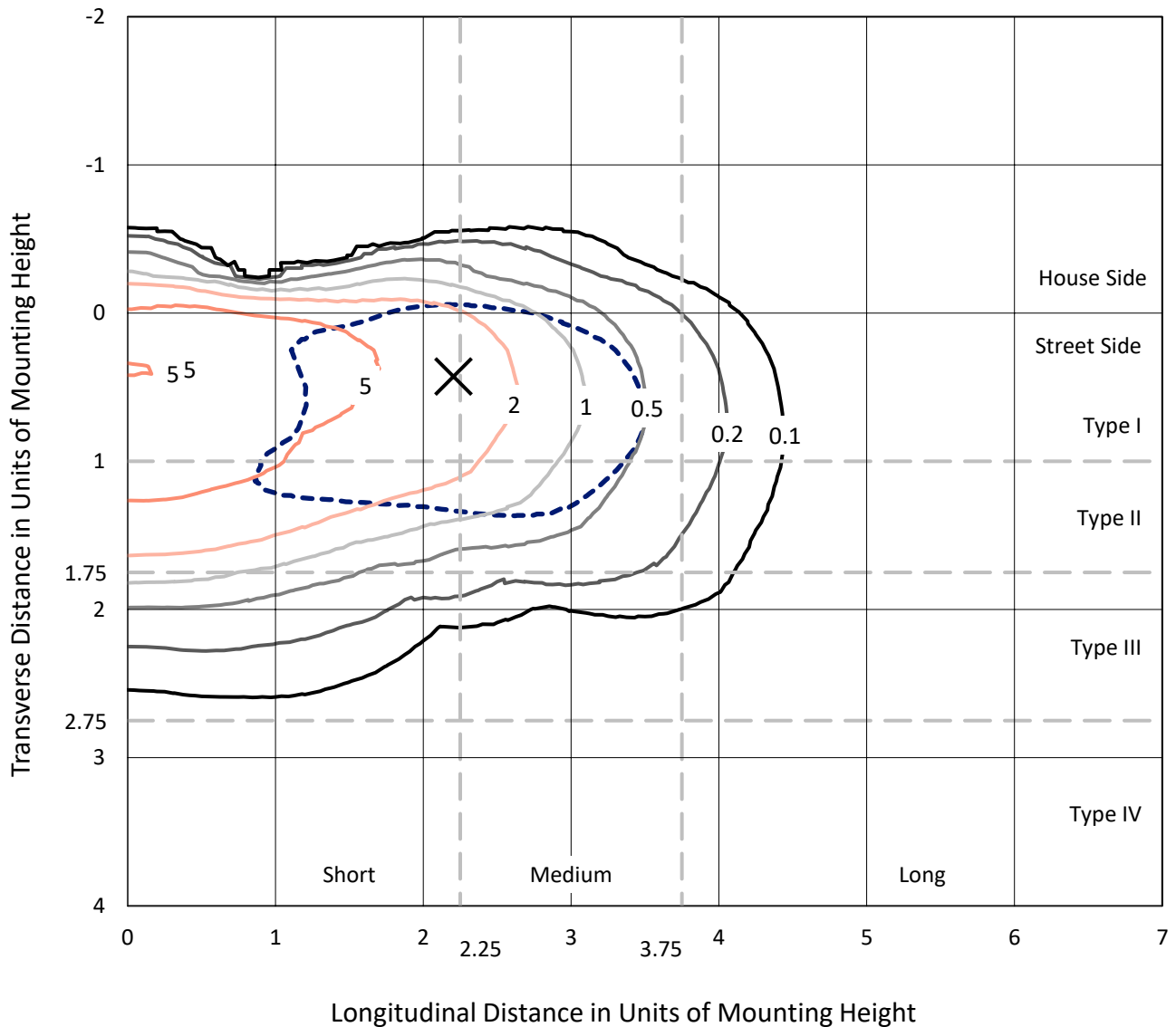
Lumens per Lamp: N/A
Luminaire Lumens: 39596 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

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

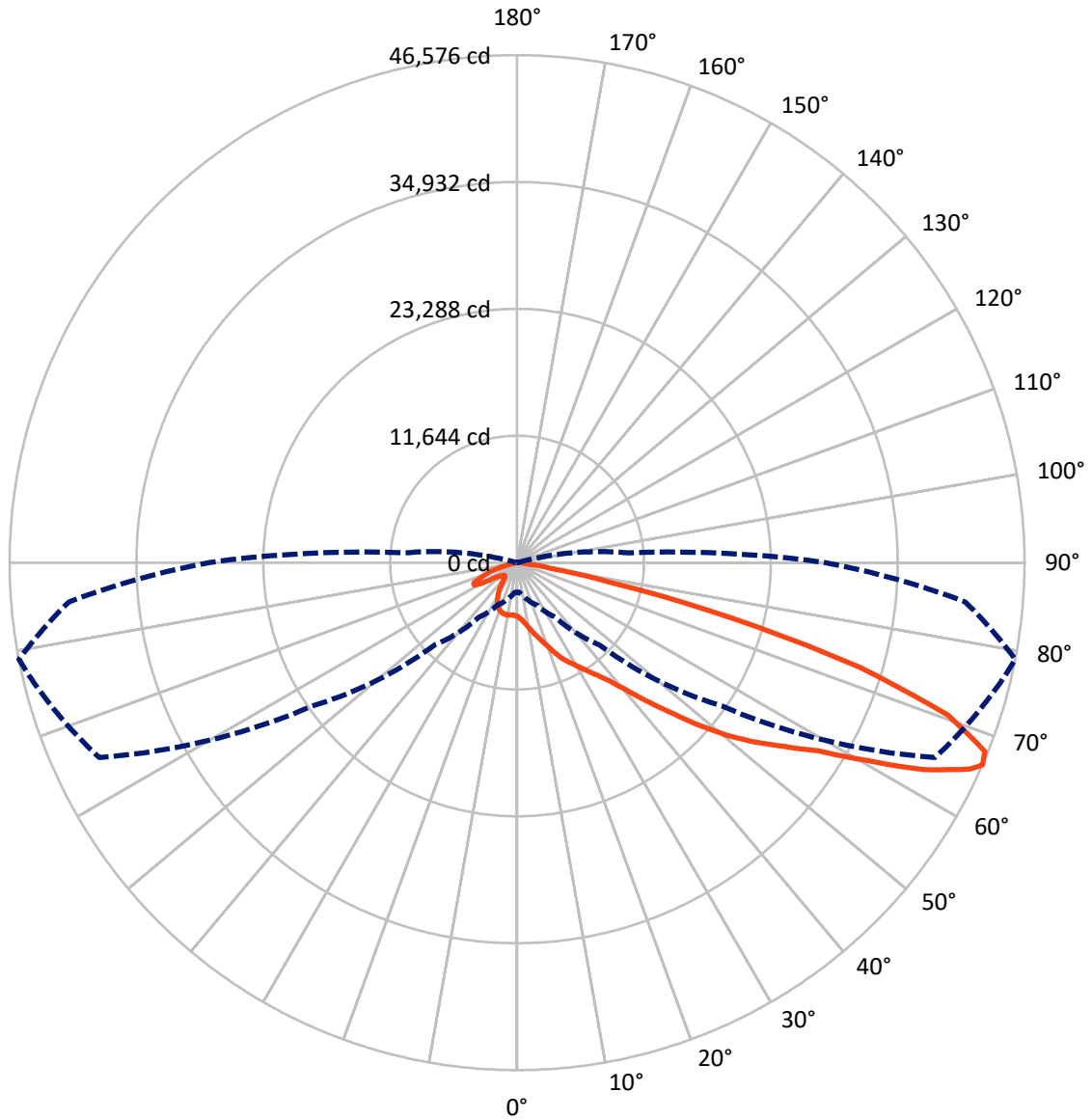
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 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	2973.1	0.0	2973.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	36622.9	0.0	36622.9
	% Fixture	92.5	0.0	92.5
Total	Lumens	39596.0	0.0	39596.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.9	1.2
10°-20°	1282.2	3.2
20°-30°	2130.0	5.4
30°-40°	3658.6	9.2
40°-50°	6628.0	16.7
50°-60°	10476.9	26.5
60°-70°	10661.0	26.9
70°-80°	4065.6	10.3
80°-90°	227.9	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°	39596.0	100.0
0°-180°	39596.0	100.0

Coefficient of Utilization

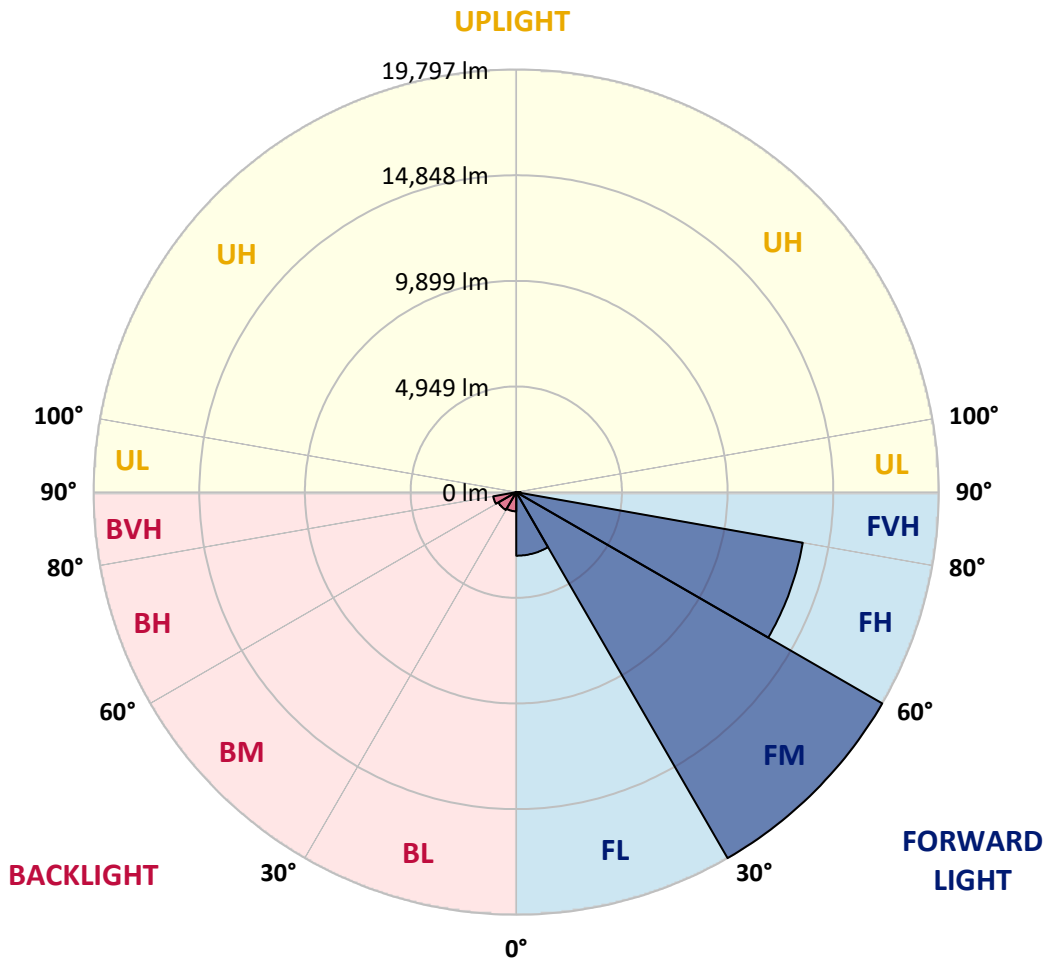


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2978.9	7.5			
FM (30°-60°)	19797.1	50.0			
FH (60°-80°)	13630.6	34.4			G5
FVH (80°-90°)	216.3	0.5			G2/225
BL (0°-30°)	899.1	2.3	B2/1000		
BM (30°-60°)	966.3	2.4	B1/1000		
BH (60°-80°)	1096.0	2.8	B3/2500		G3/2500
BVH (80°-90°)	11.6	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°	4926.2	4926.2	4926.2	4926.2	4926.2	4926.2	4926.2	4926.2	4926.2	4926.2	4926.2
2.5°	5579.4	5573.3	5548.9	5506.1	5451.2	5432.9	5353.5	5243.6	5182.6	5115.5	5084.9
5°	5964.0	5933.4	6006.7	5976.2	5988.4	5841.9	5744.2	5664.8	5432.9	5341.3	5194.8
7.5°	6049.4	6079.9	6073.8	6122.7	6171.5	6226.4	6159.3	6043.3	5811.4	5677.1	5518.3
10°	6049.4	6037.2	6086.0	6153.2	6293.6	6415.7	6598.8	6446.2	6269.2	6110.5	5823.6
12.5°	5939.5	5921.2	5970.1	6110.5	6360.7	6611.0	6812.5	6959.0	6708.7	6580.5	6208.1
15°	5603.8	5585.5	5786.9	6037.2	6366.8	6775.8	7197.0	7435.1	7264.2	7062.7	6647.6
17.5°	5188.7	5213.1	5426.8	5841.9	6366.8	6855.2	7392.4	7911.3	7886.8	7630.5	7197.0
20°	5048.3	5066.6	5280.3	5579.4	6177.6	6910.1	7697.6	8430.1	8576.6	8271.4	7703.7
22.5°	5316.9	5298.6	5316.9	5500.0	6049.4	6861.3	7899.0	9022.2	9284.7	9046.7	8369.1
25°	6232.6	6220.3	6067.7	5786.9	5976.2	6751.4	8002.8	9412.9	10017.3	9797.5	8906.3
27.5°	7575.5	7526.7	7288.6	6702.6	6318.0	6818.6	8173.7	9791.4	10658.2	10407.9	9388.5
30°	9016.1	8900.2	8588.8	7856.3	7203.1	7068.9	8271.4	10072.2	11372.4	11055.0	9809.7
32.5°	10011.2	10163.8	10066.1	9321.4	8320.2	7648.8	8430.1	10426.2	12031.7	11824.1	10530.0
35°	11549.5	11726.5	11317.5	10658.2	9651.0	8570.5	8765.9	10713.2	13045.0	12697.1	11201.5
37.5°	13490.6	13624.9	13331.9	12080.5	11018.4	9705.9	9455.7	11311.4	13917.9	13753.1	12062.2
40°	14467.3	15114.4	14699.3	13570.0	12428.5	11293.1	10597.2	12013.4	15437.9	15303.6	13252.6
42.5°	15816.4	16139.9	15926.3	15090.0	13899.6	12990.1	12007.3	13380.8	17281.4	17281.4	14864.1
45°	17244.8	17257.0	17244.8	16561.1	15505.1	15035.0	13911.8	15096.1	19265.4	19485.1	16793.1
47.5°	18416.9	18783.1	18752.6	18343.6	17525.6	17348.6	15816.4	17049.5	21755.9	22140.5	18673.2
50°	19021.2	19430.2	19552.3	19765.9	19729.3	20101.7	17898.0	19314.2	23904.7	24850.9	21090.6
52.5°	18856.4	18886.9	19637.7	20480.1	21823.1	22866.9	20406.9	21884.1	26419.7	27353.6	22958.5
55°	17507.3	17391.3	18935.7	19900.2	22677.7	24557.8	23880.3	25088.9	28379.2	29801.5	24887.5
57.5°	14546.7	14577.2	16005.6	17965.1	22042.8	25229.3	27591.7	29276.5	31126.1	32560.7	27597.8
60°	10041.7	10005.0	11604.4	13869.1	18313.1	23977.9	29728.2	34703.3	34801.0	36833.7	32463.0
62.5°	5646.5	5658.7	6873.5	8808.6	12813.1	19595.0	29624.5	40465.8	40050.7	41833.2	37993.5
65°	3198.7	3278.0	4114.3	5219.2	7673.2	13154.9	25479.6	42761.1	44097.9	45685.0	41350.9
66°	2704.2	2759.2	3473.4	4309.7	6122.7	10670.4	22934.1	42315.4	45367.6	46576.3	41283.8
67.5°	2093.8	2167.0	2765.3	3418.4	4492.8	7386.3	18459.6	40099.5	45599.6	46307.7	40117.9
70°	1434.5	1483.4	1941.2	2594.4	3070.5	3778.6	11036.7	33152.8	41375.4	41973.6	34868.1
72.5°	1007.2	1031.6	1361.3	1965.6	2362.4	2160.9	5475.6	23587.3	31663.3	32829.3	27121.7
75°	726.4	750.8	934.0	1410.1	1843.5	1416.2	2508.9	15065.6	19418.0	20333.6	16335.3
77.5°	525.0	555.5	634.9	909.5	1336.9	995.0	1233.1	7868.5	9156.5	8997.8	7026.1
80°	317.4	347.9	470.0	586.0	976.7	702.0	677.6	3284.1	3247.5	3082.7	2209.8
82.5°	146.5	170.9	250.3	396.8	683.7	488.3	323.5	1172.0	1025.5	940.1	622.6
85°	42.7	54.9	146.5	299.1	347.9	238.1	195.3	402.9	421.2	360.2	207.5
87.5°	0.0	6.1	67.1	73.3	103.8	79.4	73.3	103.8	195.3	158.7	67.1
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°	4926.2	4926.2	4926.2	4926.2	4926.2	4926.2	4926.2	4926.2	4926.2	4926.2	4926.2
2.5°	4975.1	4932.3	4828.5	4669.8	4529.4	4456.2	4352.4	4260.8	4212.0	4205.9	4199.8
5°	5097.1	4981.2	4730.9	4444.0	4230.3	3998.4	3839.6	3723.7	3613.8	3510.0	3571.1
7.5°	5262.0	5078.8	4669.8	4297.5	3833.5	3534.4	3253.6	3088.8	2991.1	2899.6	2887.4
10°	5518.3	5286.4	4627.1	3955.6	3424.5	2985.0	2698.1	2460.1	2325.8	2167.0	2228.1
12.5°	5866.3	5451.2	4468.4	3644.3	2960.6	2496.7	2087.7	1703.1	1489.5	1324.6	1330.8
15°	6214.2	5671.0	4321.9	3265.8	2539.4	1929.0	1330.8	1068.3	1007.2	970.6	982.8
17.5°	6556.1	5848.0	4096.0	2881.3	2057.2	1227.0	970.6	915.7	885.1	848.5	848.5
20°	6971.2	5964.0	3815.2	2527.2	1416.2	909.5	830.2	793.6	744.7	695.9	702.0
22.5°	7374.1	6061.6	3491.7	2075.5	952.3	787.5	695.9	647.1	604.3	555.5	555.5
25°	7777.0	6092.2	3070.5	1489.5	769.1	628.7	543.3	476.1	433.4	390.7	396.8
27.5°	8051.7	5902.9	2673.7	952.3	616.5	476.1	378.5	323.5	286.9	244.2	244.2
30°	8210.4	5555.0	2246.4	671.5	463.9	323.5	225.9	170.9	134.3	103.8	97.7
32.5°	8369.1	5274.2	1764.2	512.8	305.2	170.9	85.5	30.5	0.0	0.0	0.0
35°	8686.5	4956.7	1184.2	286.9	103.8	6.1	0.0	0.0	0.0	0.0	0.0
37.5°	8887.9	4517.2	543.3	42.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	9394.6	4297.5	134.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	10218.7	4144.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	11122.1	4083.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	12324.7	4248.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	13594.4	4694.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	14986.2	5115.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	16201.0	5622.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	18435.2	6818.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	22445.7	9168.8	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	26963.0	10914.6	67.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	28617.2	10871.9	116.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	28324.2	10273.6	116.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	26804.3	9126.0	103.8	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	23019.5	7538.9	103.8	18.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	17550.0	5872.4	97.7	24.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	10591.1	3125.4	79.4	30.5	12.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4218.1	1098.8	61.0	24.4	12.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	1141.5	329.6	36.6	24.4	18.3	6.1	0.0	0.0	0.0	0.0	0.0
82.5°	299.1	122.1	30.5	24.4	12.2	6.1	0.0	0.0	0.0	0.0	0.0
85°	116.0	48.8	24.4	18.3	18.3	12.2	6.1	0.0	0.0	0.0	0.0
87.5°	36.6	18.3	18.3	12.2	12.2	6.1	6.1	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)