

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: P481650

Luminaire Tested: **IFLD-M-SA4D-735-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481650
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-735-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

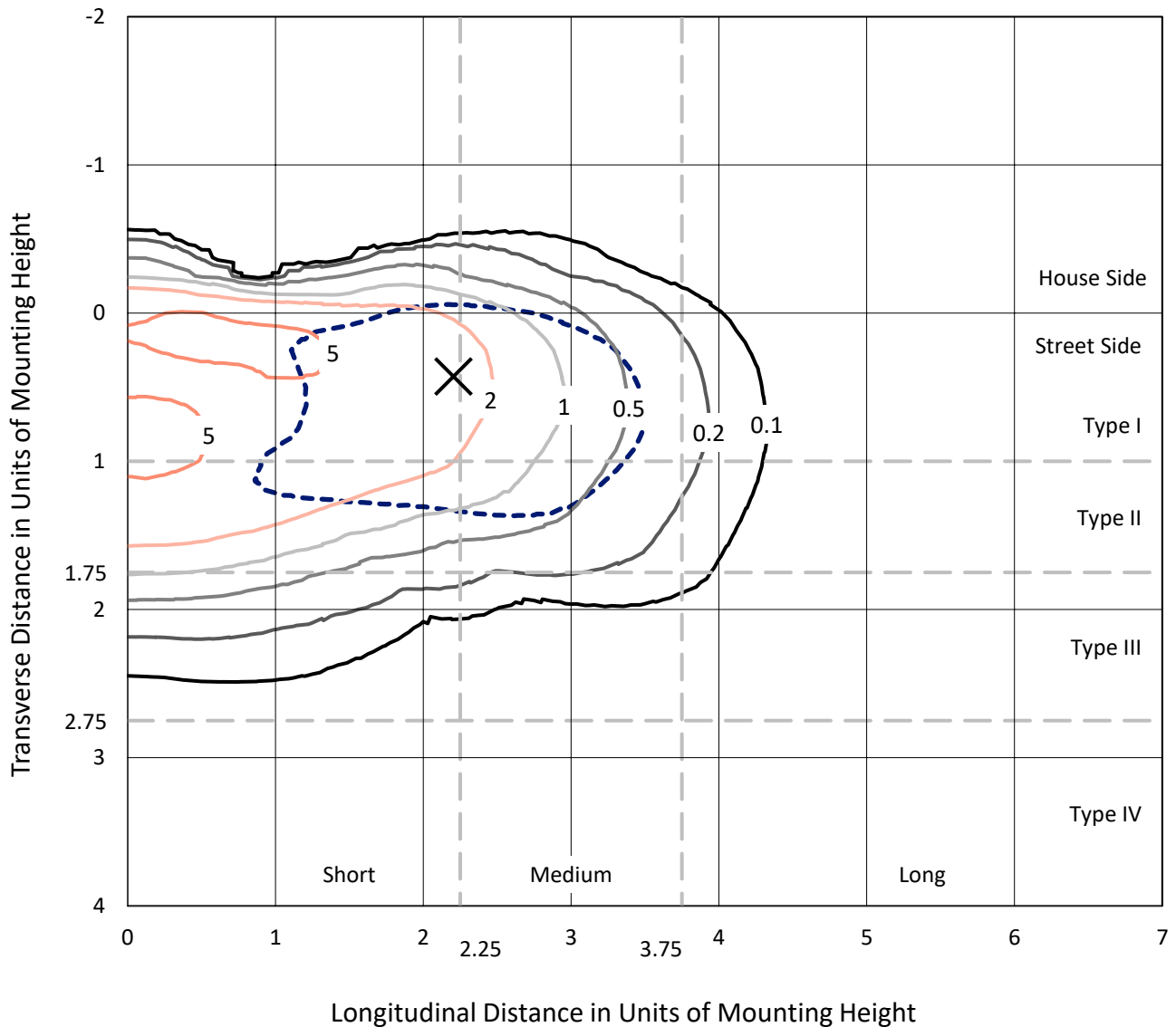
Lumens per Lamp: N/A
Luminaire Lumens: 22220.1 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7
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

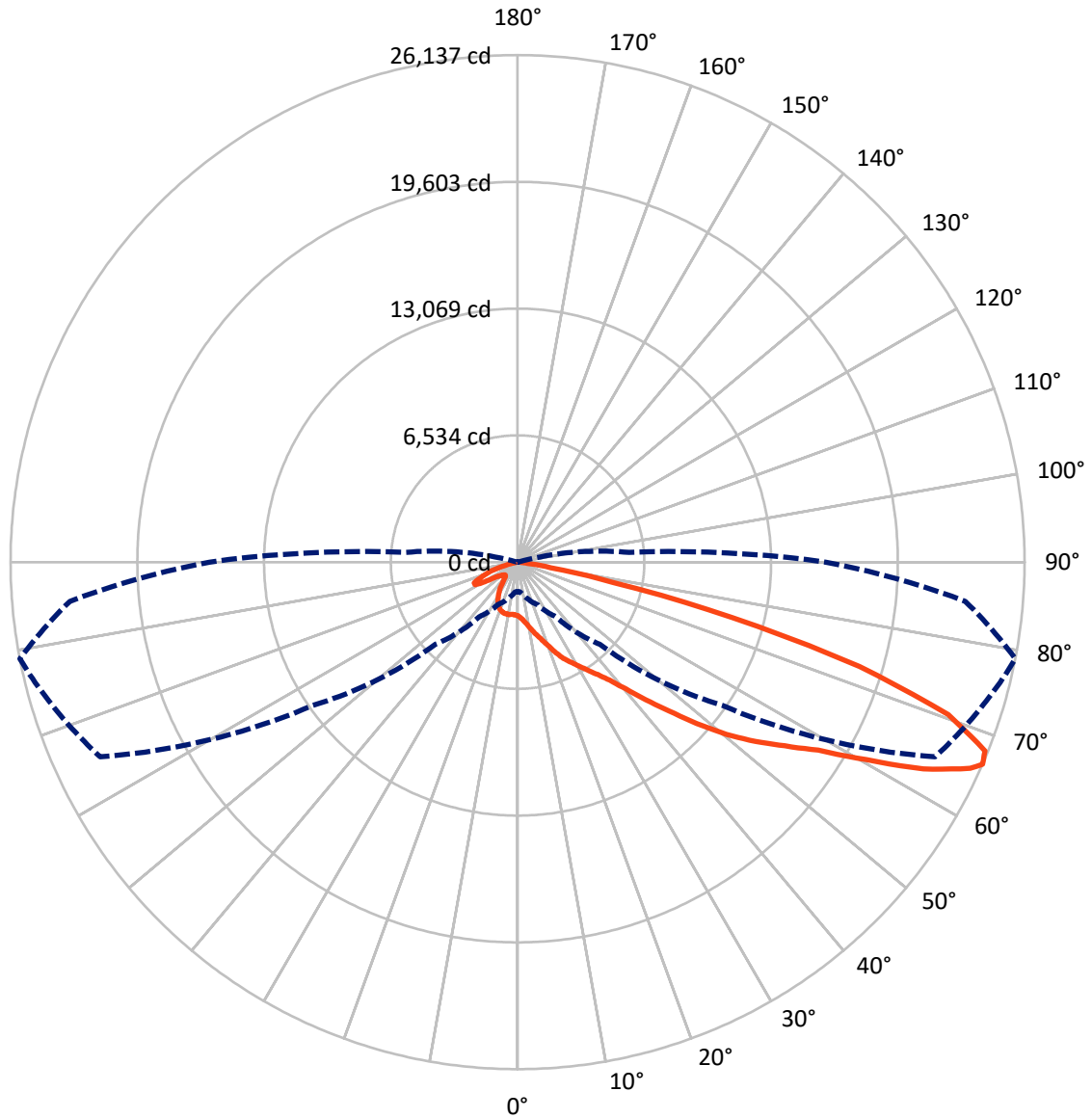
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	1668.4	0.0	1668.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	20551.7	0.0	20551.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	22220.1	0.0	22220.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.4	1.2
10°-20°	719.5	3.2
20°-30°	1195.3	5.4
30°-40°	2053.1	9.2
40°-50°	3719.4	16.7
50°-60°	5879.3	26.5
60°-70°	5982.6	26.9
70°-80°	2281.5	10.3
80°-90°	127.9	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°	22220.1	100.0
0°-180°	22220.1	100.0

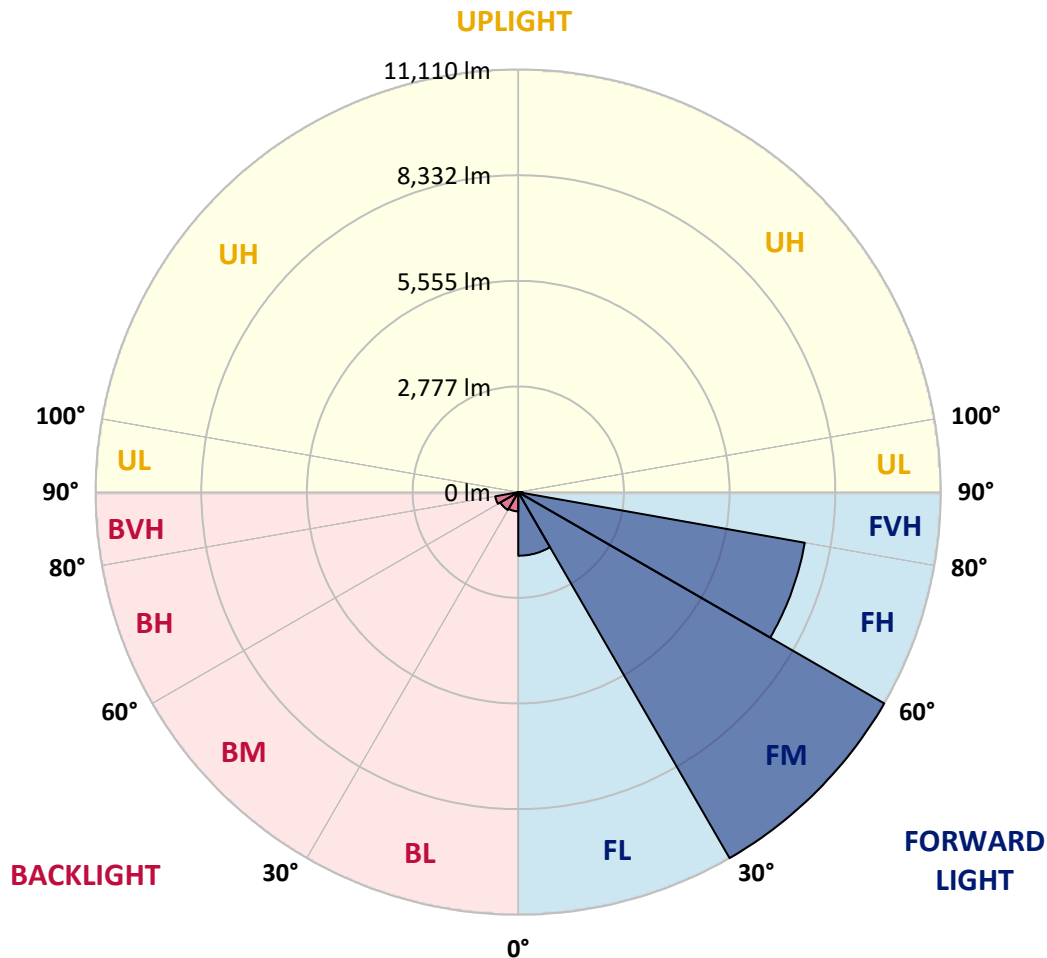


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1671.7	7.5			
FM (30°-60°)	11109.6	50.0			
FH (60°-80°)	7649.1	34.4			G4/12000
FVH (80°-90°)	121.4	0.5			G2/225
BL (0°-30°)	504.6	2.3	B2/1000		
BM (30°-60°)	542.3	2.4	B1/1000		
BH (60°-80°)	615.0	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.5	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°	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4
2.5°	3131.0	3127.6	3113.9	3089.9	3059.0	3048.8	3004.2	2942.6	2908.3	2870.6	2853.5
5°	3346.8	3329.7	3370.8	3353.6	3360.5	3278.3	3223.5	3178.9	3048.8	2997.4	2915.2
7.5°	3394.8	3411.9	3408.5	3435.9	3463.3	3494.1	3456.4	3391.3	3261.2	3185.8	3096.7
10°	3394.8	3387.9	3415.3	3453.0	3531.8	3600.3	3703.1	3617.4	3518.1	3429.0	3268.0
12.5°	3333.1	3322.8	3350.2	3429.0	3569.5	3709.9	3823.0	3905.2	3764.7	3692.8	3483.8
15°	3144.7	3134.4	3247.5	3387.9	3572.9	3802.4	4038.8	4172.4	4076.4	3963.4	3730.5
17.5°	2911.7	2925.5	3045.3	3278.3	3572.9	3846.9	4148.4	4439.6	4425.9	4282.0	4038.8
20°	2833.0	2843.2	2963.1	3131.0	3466.7	3877.8	4319.7	4730.7	4812.9	4641.7	4323.1
22.5°	2983.7	2973.4	2983.7	3086.5	3394.8	3850.4	4432.7	5063.0	5210.3	5076.7	4696.5
25°	3497.5	3490.7	3405.0	3247.5	3353.6	3788.7	4490.9	5282.3	5621.4	5498.1	4997.9
27.5°	4251.2	4223.7	4090.2	3761.3	3545.5	3826.4	4586.9	5494.6	5981.1	5840.6	5268.6
30°	5059.6	4994.5	4819.8	4408.7	4042.2	3966.8	4641.7	5652.2	6381.9	6203.7	5504.9
32.5°	5618.0	5703.6	5648.8	5230.9	4669.1	4292.3	4730.7	5850.9	6751.8	6635.4	5909.1
35°	6481.2	6580.6	6351.0	5981.1	5415.9	4809.5	4919.1	6011.9	7320.5	7125.2	6286.0
37.5°	7570.5	7645.9	7481.5	6779.2	6183.2	5446.7	5306.2	6347.6	7810.3	7717.8	6769.0
40°	8118.6	8481.8	8248.8	7615.1	6974.5	6337.3	5946.8	6741.6	8663.3	8587.9	7436.9
42.5°	8875.7	9057.3	8937.4	8468.0	7800.1	7289.6	6738.1	7508.9	9697.8	9697.8	8341.3
45°	9677.3	9684.1	9677.3	9293.6	8701.0	8437.2	7806.9	8471.5	10811.2	10934.5	9423.8
47.5°	10335.0	10540.5	10523.4	10293.9	9834.9	9735.5	8875.7	9567.7	12208.8	12424.6	10478.9
50°	10674.1	10903.6	10972.2	11092.0	11071.5	11280.5	10043.8	10838.6	13414.6	13945.6	11835.4
52.5°	10581.6	10598.8	11020.1	11492.8	12246.5	12832.2	11451.7	12280.7	14825.9	15350.1	12883.6
55°	9824.6	9759.5	10626.2	11167.4	12726.1	13781.1	13400.9	14079.2	15925.6	16723.7	13966.1
57.5°	8163.2	8180.3	8981.9	10081.5	12369.8	14157.9	15483.7	16429.1	17467.1	18272.1	15487.1
60°	5635.1	5614.5	6512.0	7782.9	10276.8	13455.7	16682.6	19474.5	19529.3	20670.0	18217.3
62.5°	3168.7	3175.5	3857.2	4943.1	7190.3	10996.1	16624.4	22708.2	22475.3	23475.5	21320.9
65°	1795.0	1839.5	2308.8	2928.9	4306.0	7382.1	14298.4	23996.2	24746.4	25637.1	23204.9
66°	1517.5	1548.4	1949.2	2418.5	3435.9	5987.9	12869.9	23746.2	25459.0	26137.2	23167.2
67.5°	1175.0	1216.1	1551.8	1918.3	2521.2	4145.0	10359.0	22502.7	25589.1	25986.5	22513.0
70°	805.0	832.4	1089.3	1455.9	1723.1	2120.4	6193.5	18604.4	23218.6	23554.3	19567.0
72.5°	565.2	578.9	763.9	1103.0	1325.7	1212.7	3072.8	13236.5	17768.5	18422.8	15219.9
75°	407.6	421.3	524.1	791.3	1034.5	794.7	1407.9	8454.3	10896.8	11410.6	9166.9
77.5°	294.6	311.7	356.3	510.4	750.2	558.4	692.0	4415.6	5138.4	5049.3	3942.9
80°	178.1	195.3	263.8	328.9	548.1	393.9	380.2	1843.0	1822.4	1729.9	1240.1
82.5°	82.2	95.9	140.4	222.7	383.7	274.0	181.6	657.7	575.5	527.5	349.4
85°	24.0	30.8	82.2	167.9	195.3	133.6	109.6	226.1	236.4	202.1	116.5
87.5°	0.0	3.4	37.7	41.1	58.2	44.5	41.1	58.2	109.6	89.1	37.7
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°	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4	2764.4
2.5°	2791.9	2767.9	2709.6	2620.6	2541.8	2500.7	2442.4	2391.1	2363.7	2360.2	2356.8
5°	2860.4	2795.3	2654.8	2493.8	2373.9	2243.8	2154.7	2089.6	2027.9	1969.7	2004.0
7.5°	2952.9	2850.1	2620.6	2411.6	2151.3	1983.4	1825.8	1733.3	1678.5	1627.2	1620.3
10°	3096.7	2966.6	2596.6	2219.8	1921.8	1675.1	1514.1	1380.5	1305.1	1216.1	1250.3
12.5°	3292.0	3059.0	2507.5	2045.1	1661.4	1401.1	1171.6	955.7	835.8	743.4	746.8
15°	3487.2	3182.4	2425.3	1832.7	1425.0	1082.5	746.8	599.5	565.2	544.7	551.5
17.5°	3679.1	3281.7	2298.6	1616.9	1154.4	688.5	544.7	513.8	496.7	476.2	476.2
20°	3912.0	3346.8	2141.0	1418.2	794.7	510.4	465.9	445.3	417.9	390.5	393.9
22.5°	4138.1	3401.6	1959.4	1164.7	534.4	441.9	390.5	363.1	339.1	311.7	311.7
25°	4364.2	3418.7	1723.1	835.8	431.6	352.8	304.9	267.2	243.2	219.2	222.7
27.5°	4518.3	3312.5	1500.4	534.4	346.0	267.2	212.4	181.6	161.0	137.0	137.0
30°	4607.4	3117.3	1260.6	376.8	260.3	181.6	126.7	95.9	75.4	58.2	54.8
32.5°	4696.5	2959.7	990.0	287.7	171.3	95.9	48.0	17.1	0.0	0.0	0.0
35°	4874.6	2781.6	664.6	161.0	58.2	3.4	0.0	0.0	0.0	0.0	0.0
37.5°	4987.7	2534.9	304.9	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5272.0	2411.6	75.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5734.4	2326.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6241.4	2291.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6916.3	2384.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7628.8	2634.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8409.8	2870.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9091.5	3155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10345.3	3826.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12595.9	5145.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	15130.8	6124.9	37.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16059.1	6101.0	65.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	15894.7	5765.3	65.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	15041.8	5121.3	58.2	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	12917.9	4230.6	58.2	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9848.6	3295.4	54.8	13.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	5943.4	1753.9	44.5	17.1	6.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2367.1	616.6	34.3	13.7	6.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	640.6	185.0	20.6	13.7	10.3	3.4	0.0	0.0	0.0	0.0	0.0
82.5°	167.9	68.5	17.1	13.7	6.9	3.4	0.0	0.0	0.0	0.0	0.0
85°	65.1	27.4	13.7	10.3	10.3	6.9	3.4	0.0	0.0	0.0	0.0
87.5°	20.6	10.3	10.3	6.9	6.9	3.4	3.4	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)