

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: P481813

Luminaire Tested: **IFLD-L-SA8A-827-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481813
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-827-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

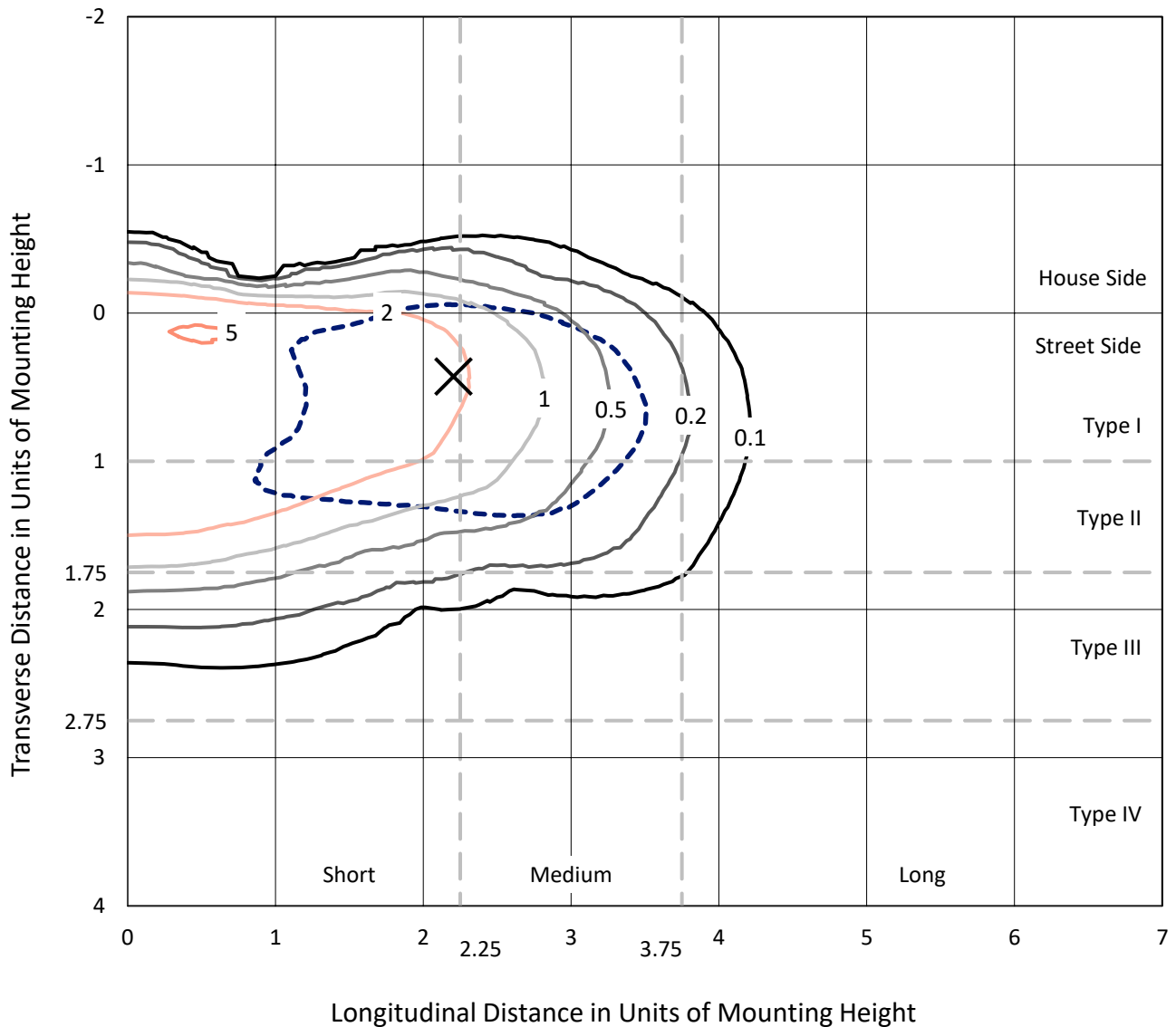
Lumens per Lamp: N/A
Luminaire Lumens: 18134.3 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 247.8
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

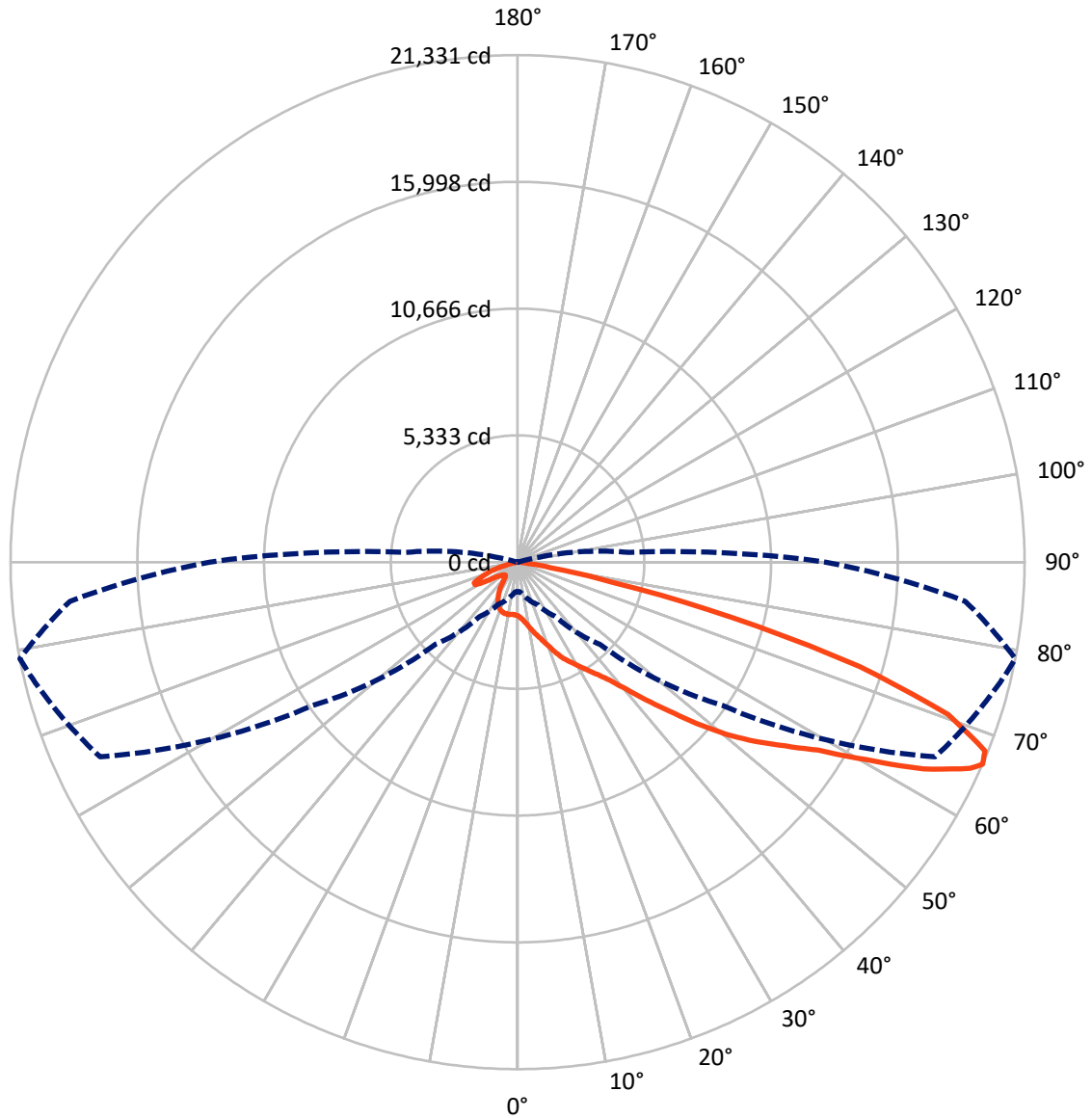
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	1361.6	0.0	1361.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	16772.7	0.0	16772.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	18134.3	0.0	18134.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.4	1.2
10°-20°	587.2	3.2
20°-30°	975.5	5.4
30°-40°	1675.6	9.2
40°-50°	3035.5	16.7
50°-60°	4798.2	26.5
60°-70°	4882.6	26.9
70°-80°	1862.0	10.3
80°-90°	104.4	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°	18134.3	100.0
0°-180°	18134.3	100.0

Coefficient of Utilization



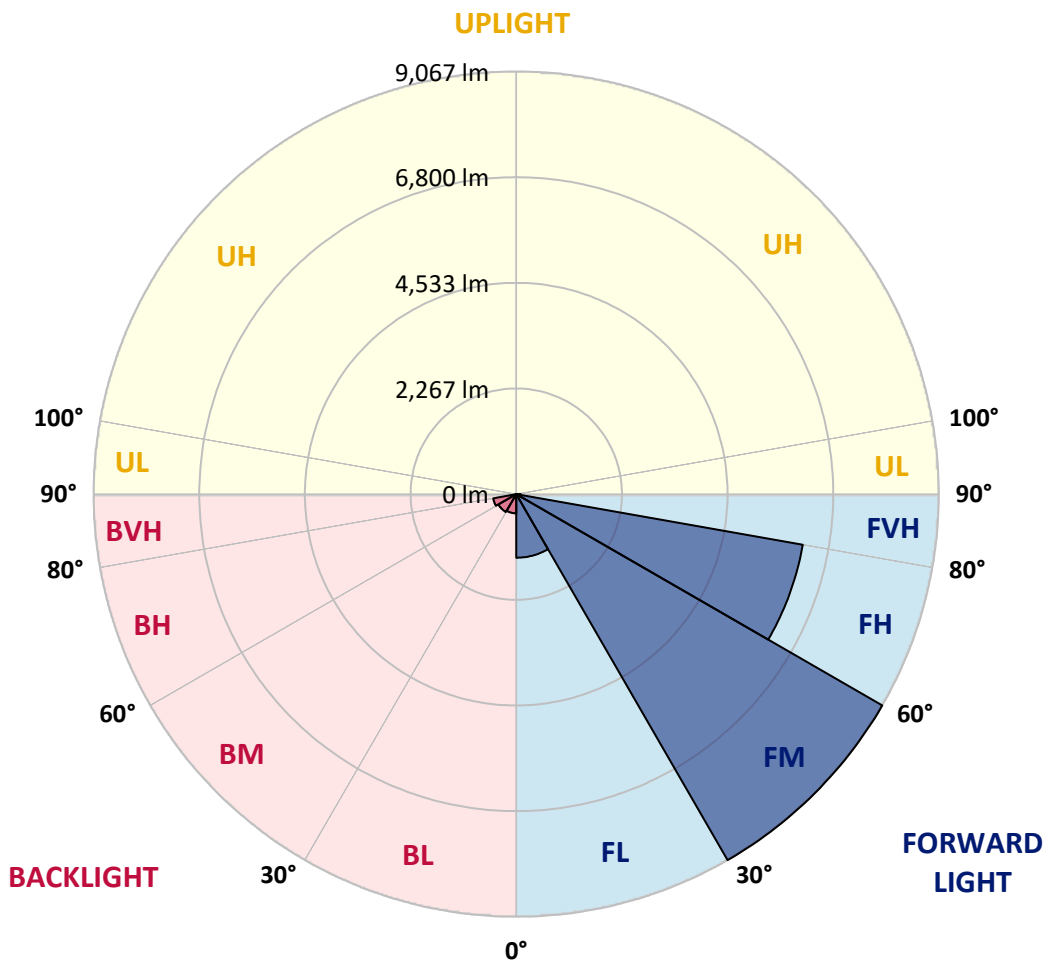
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1364.3	7.5			
FM (30°-60°)	9066.8	50.0			
FH (60°-80°)	6242.6	34.4			G3/7500
FVH (80°-90°)	99.1	0.5			G1/100
BL (0°-30°)	411.8	2.3	B1/500		
BM (30°-60°)	442.6	2.4	B1/1000		
BH (60°-80°)	502.0	2.8	B2/1000		G2/1000
BVH (80°-90°)	5.3	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2256.1	2256.1	2256.1	2256.1	2256.1	2256.1	2256.1	2256.1	2256.1	2256.1	2256.1
2.5°	2555.3	2552.5	2541.3	2521.7	2496.6	2488.2	2451.8	2401.5	2373.6	2342.8	2328.8
5°	2731.4	2717.4	2751.0	2737.0	2742.6	2675.5	2630.8	2594.4	2488.2	2446.2	2379.1
7.5°	2770.5	2784.5	2781.7	2804.1	2826.5	2851.6	2820.9	2767.7	2661.5	2600.0	2527.3
10°	2770.5	2764.9	2787.3	2818.1	2882.4	2938.3	3022.2	2952.3	2871.2	2798.5	2667.1
12.5°	2720.2	2711.8	2734.2	2798.5	2913.1	3027.7	3120.0	3187.1	3072.5	3013.8	2843.2
15°	2566.5	2558.1	2650.3	2764.9	2915.9	3103.2	3296.1	3405.2	3326.9	3234.6	3044.5
17.5°	2376.3	2387.5	2485.4	2675.5	2915.9	3139.6	3385.6	3623.2	3612.0	3494.6	3296.1
20°	2312.0	2320.4	2418.3	2555.3	2829.2	3164.7	3525.4	3860.9	3928.0	3788.2	3528.2
22.5°	2435.1	2426.7	2435.1	2518.9	2770.5	3142.4	3617.6	4132.0	4252.3	4143.2	3832.9
25°	2854.4	2848.8	2778.9	2650.3	2737.0	3092.0	3665.2	4311.0	4587.7	4487.1	4078.9
27.5°	3469.5	3447.1	3338.1	3069.7	2893.6	3122.8	3743.4	4484.3	4881.3	4766.7	4299.8
30°	4129.3	4076.1	3933.6	3598.1	3298.9	3237.4	3788.2	4612.9	5208.4	5063.0	4492.7
32.5°	4584.9	4654.8	4610.1	4269.0	3810.5	3503.0	3860.9	4775.1	5510.3	5415.3	4822.6
35°	5289.5	5370.5	5183.2	4881.3	4420.0	3925.2	4014.6	4906.5	5974.4	5815.1	5130.1
37.5°	6178.5	6240.0	6105.8	5532.7	5046.2	4445.2	4330.5	5180.4	6374.2	6298.7	5524.3
40°	6625.8	6922.2	6732.0	6214.8	5692.0	5172.0	4853.3	5501.9	7070.3	7008.8	6069.5
42.5°	7243.7	7391.8	7294.0	6911.0	6365.8	5949.3	5499.1	6128.2	7914.6	7914.6	6807.5
45°	7897.9	7903.4	7897.9	7584.7	7101.1	6885.8	6371.4	6913.8	8823.2	8923.9	7691.0
47.5°	8434.6	8602.4	8588.4	8401.1	8026.5	7945.4	7243.7	7808.4	9963.9	10140.0	8552.0
50°	8711.4	8898.7	8954.6	9052.5	9035.7	9206.2	8197.0	8845.6	10948.0	11381.3	9659.1
52.5°	8635.9	8649.9	8993.8	9379.6	9994.6	10472.7	9346.0	10022.6	12099.8	12527.5	10514.6
55°	8018.1	7965.0	8672.3	9114.0	10386.0	11247.1	10936.8	11490.3	12997.2	13648.6	11398.1
57.5°	6662.2	6676.1	7330.3	8227.7	10095.3	11554.6	12636.6	13408.2	14255.3	14912.3	12639.4
60°	4598.9	4582.2	5314.6	6351.8	8387.1	10981.5	13615.1	15893.6	15938.3	16869.3	14867.5
62.5°	2586.0	2591.6	3148.0	4034.2	5868.2	8974.2	13567.5	18532.7	18342.6	19158.9	17400.4
65°	1464.9	1501.3	1884.3	2390.3	3514.2	6024.7	11669.3	19583.9	20196.1	20923.0	18938.1
66°	1238.5	1263.7	1590.8	1973.8	2804.1	4886.9	10503.4	19379.8	20777.6	21331.2	18907.3
67.5°	958.9	992.5	1266.5	1565.6	2057.6	3382.8	8454.2	18365.0	20883.9	21208.2	18373.3
70°	657.0	679.4	889.0	1188.2	1406.2	1730.5	5054.6	15183.5	18949.3	19223.2	15969.0
72.5°	461.3	472.5	623.4	900.2	1081.9	989.7	2507.7	10802.6	14501.3	15035.3	12421.3
75°	332.7	343.9	427.7	645.8	844.3	648.6	1149.0	6899.8	8893.1	9312.5	7481.3
77.5°	240.4	254.4	290.8	416.6	612.3	455.7	564.7	3603.7	4193.6	4120.9	3217.9
80°	145.4	159.4	215.3	268.4	447.3	321.5	310.3	1504.1	1487.3	1411.8	1012.0
82.5°	67.1	78.3	114.6	181.7	313.1	223.7	148.2	536.8	469.7	430.5	285.2
85°	19.6	25.2	67.1	137.0	159.4	109.0	89.5	184.5	192.9	164.9	95.1
87.5°	0.0	2.8	30.8	33.5	47.5	36.3	33.5	47.5	89.5	72.7	30.8
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°	2256.1	2256.1	2256.1	2256.1	2256.1	2256.1	2256.1	2256.1	2256.1	2256.1	2256.1
2.5°	2278.5	2258.9	2211.4	2138.7	2074.4	2040.9	1993.3	1951.4	1929.0	1926.2	1923.4
5°	2334.4	2281.3	2166.7	2035.3	1937.4	1831.2	1758.5	1705.4	1655.1	1607.5	1635.5
7.5°	2409.9	2326.0	2138.7	1968.2	1755.7	1618.7	1490.1	1414.6	1369.9	1328.0	1322.4
10°	2527.3	2421.1	2119.1	1811.6	1568.4	1367.1	1235.7	1126.7	1065.2	992.5	1020.4
12.5°	2686.7	2496.6	2046.5	1669.0	1355.9	1143.4	956.1	780.0	682.2	606.7	609.5
15°	2846.0	2597.2	1979.4	1495.7	1163.0	883.4	609.5	489.2	461.3	444.5	450.1
17.5°	3002.6	2678.3	1875.9	1319.6	942.2	561.9	444.5	419.4	405.4	388.6	388.6
20°	3192.7	2731.4	1747.3	1157.4	648.6	416.6	380.2	363.4	341.1	318.7	321.5
22.5°	3377.2	2776.1	1599.1	950.5	436.1	360.6	318.7	296.3	276.8	254.4	254.4
25°	3561.7	2790.1	1406.2	682.2	352.3	288.0	248.8	218.1	198.5	178.9	181.7
27.5°	3687.5	2703.4	1224.5	436.1	282.4	218.1	173.3	148.2	131.4	111.8	111.8
30°	3760.2	2544.1	1028.8	307.5	212.5	148.2	103.4	78.3	61.5	47.5	44.7
32.5°	3832.9	2415.5	808.0	234.8	139.8	78.3	39.1	14.0	0.0	0.0	0.0
35°	3978.3	2270.1	542.4	131.4	47.5	2.8	0.0	0.0	0.0	0.0	0.0
37.5°	4070.5	2068.8	248.8	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4302.6	1968.2	61.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4680.0	1898.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5093.8	1870.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5644.5	1945.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6226.0	2149.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6863.4	2342.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7419.8	2574.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8443.0	3122.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10279.8	4199.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12348.6	4998.7	30.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13106.2	4979.1	53.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	12972.1	4705.2	53.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12275.9	4179.6	47.5	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10542.6	3452.7	47.5	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8037.6	2689.5	44.7	11.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	4850.5	1431.4	36.3	14.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1931.8	503.2	28.0	11.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	522.8	151.0	16.8	11.2	8.4	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	137.0	55.9	14.0	11.2	5.6	2.8	0.0	0.0	0.0	0.0	0.0
85°	53.1	22.4	11.2	8.4	8.4	5.6	2.8	0.0	0.0	0.0	0.0
87.5°	16.8	8.4	8.4	5.6	5.6	2.8	2.8	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)