

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: P481591

Luminaire Tested: **IFLD-S-SA3D-730-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481591
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-730-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

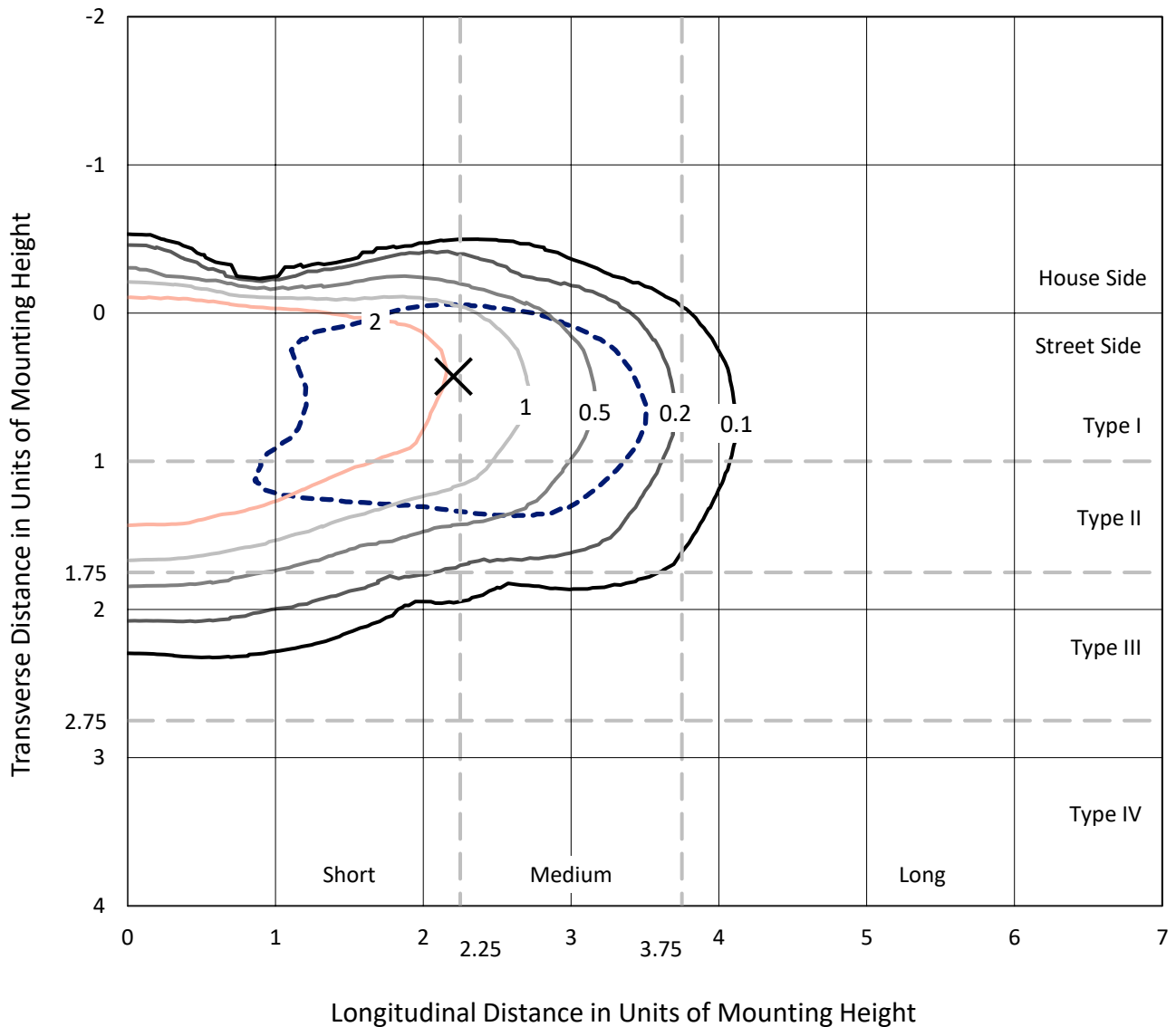
Lumens per Lamp: N/A
Luminaire Lumens: 15283.8 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 184.1
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

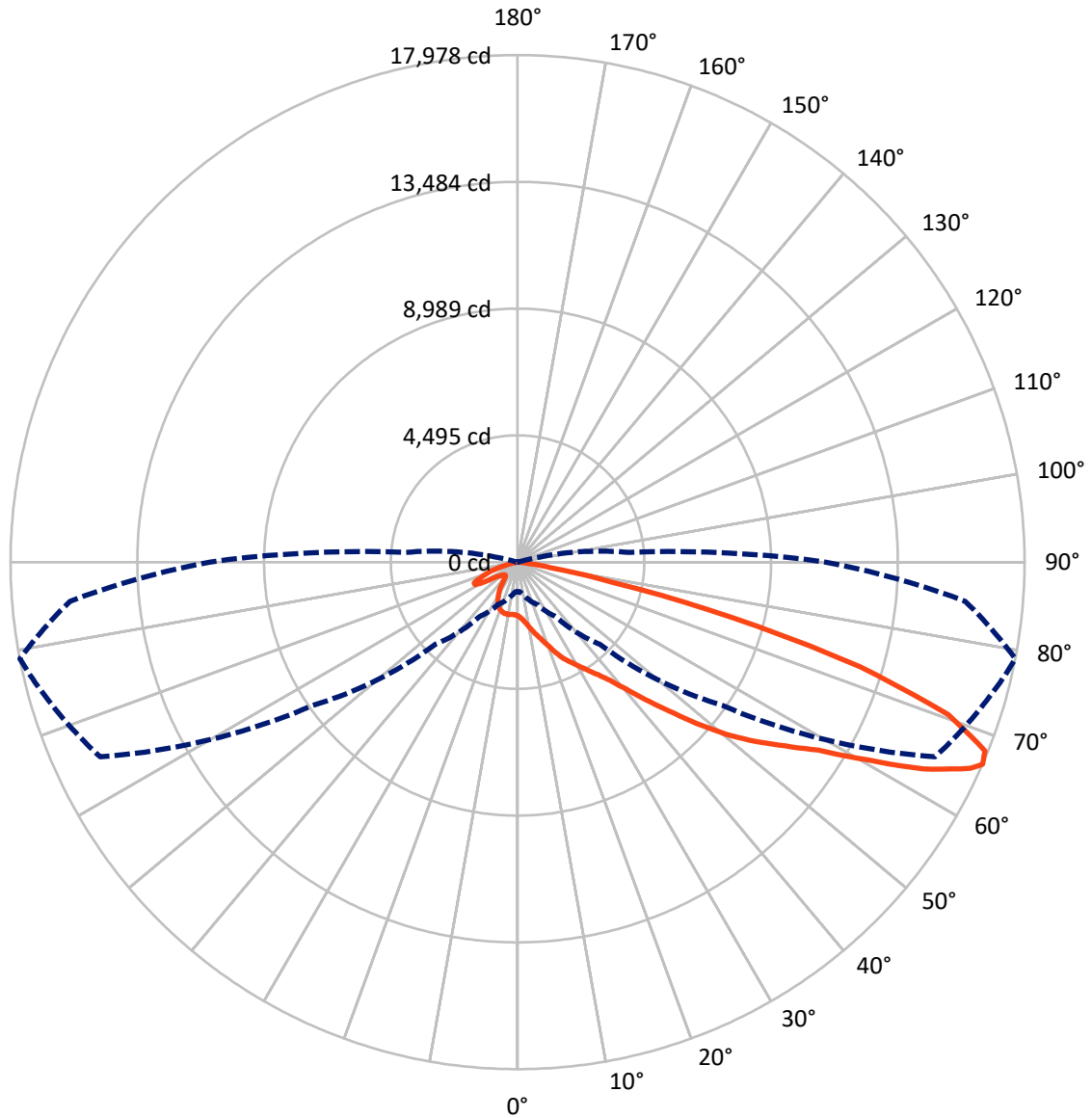
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	1147.6	0.0	1147.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	14136.2	0.0	14136.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	15283.8	0.0	15283.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.8	1.2
10°-20°	494.9	3.2
20°-30°	822.2	5.4
30°-40°	1412.2	9.2
40°-50°	2558.3	16.7
50°-60°	4044.0	26.5
60°-70°	4115.1	26.9
70°-80°	1569.3	10.3
80°-90°	88.0	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°	15283.8	100.0
0°-180°	15283.8	100.0

Coefficient of Utilization



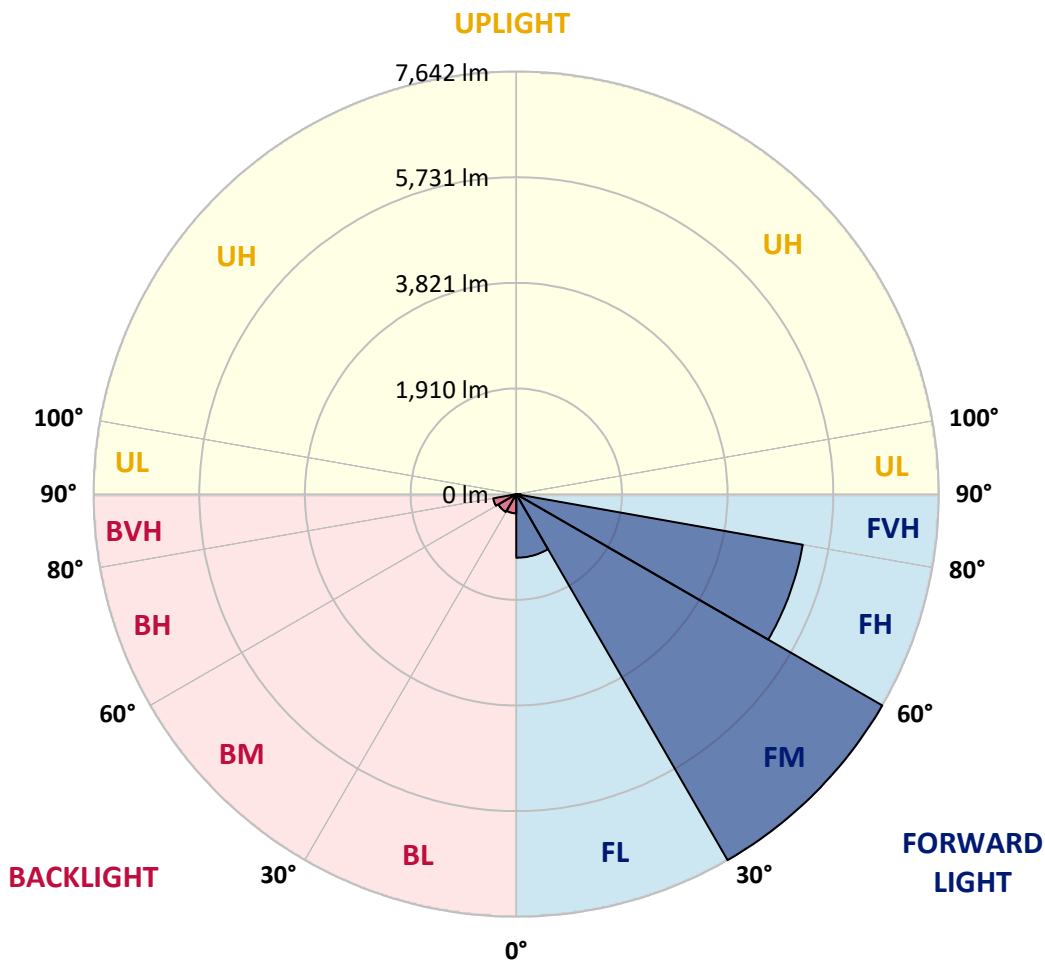
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1149.8	7.5			
FM (30°-60°)	7641.5	50.0			
FH (60°-80°)	5261.3	34.4			G3/7500
FVH (80°-90°)	83.5	0.5			G1/100
BL (0°-30°)	347.1	2.3	B1/500		
BM (30°-60°)	373.0	2.4	B1/1000		
BH (60°-80°)	423.1	2.8	B1/500		G1/500
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5
2.5°	2153.6	2151.2	2141.8	2125.3	2104.1	2097.1	2066.4	2024.0	2000.4	1974.5	1962.7
5°	2302.0	2290.3	2318.5	2306.8	2311.5	2254.9	2217.2	2186.6	2097.1	2061.7	2005.2
7.5°	2335.0	2346.8	2344.5	2363.3	2382.2	2403.4	2377.4	2332.7	2243.1	2191.3	2130.0
10°	2335.0	2330.3	2349.2	2375.1	2429.3	2476.4	2547.1	2488.2	2419.9	2358.6	2247.8
12.5°	2292.6	2285.5	2304.4	2358.6	2455.2	2551.8	2629.6	2686.1	2589.5	2540.0	2396.3
15°	2163.0	2156.0	2233.7	2330.3	2457.6	2615.4	2778.0	2869.9	2803.9	2726.2	2565.9
17.5°	2002.8	2012.2	2094.7	2254.9	2457.6	2646.1	2853.4	3053.7	3044.3	2945.3	2778.0
20°	1948.6	1955.7	2038.1	2153.6	2384.5	2667.3	2971.2	3254.0	3310.5	3192.7	2973.6
22.5°	2052.3	2045.2	2052.3	2123.0	2335.0	2648.4	3049.0	3482.5	3583.8	3491.9	3230.4
25°	2405.7	2401.0	2342.1	2233.7	2306.8	2606.0	3089.0	3633.3	3866.6	3781.8	3437.7
27.5°	2924.1	2905.2	2813.3	2587.1	2438.7	2631.9	3155.0	3779.4	4114.0	4017.4	3623.9
30°	3480.2	3435.4	3315.2	3032.5	2780.4	2728.5	3192.7	3887.8	4389.7	4267.1	3786.5
32.5°	3864.2	3923.1	3885.4	3598.0	3211.6	2952.4	3254.0	4024.5	4644.1	4564.0	4064.5
35°	4458.0	4526.3	4368.5	4114.0	3725.2	3308.2	3383.6	4135.2	5035.3	4901.0	4323.7
37.5°	5207.3	5259.1	5146.0	4663.0	4253.0	3746.4	3649.8	4366.1	5372.2	5308.6	4655.9
40°	5584.3	5834.0	5673.8	5237.9	4797.3	4359.0	4090.4	4637.1	5958.9	5907.1	5115.4
42.5°	6105.0	6229.9	6147.4	5824.6	5365.1	5014.1	4634.7	5164.9	6670.5	6670.5	5737.4
45°	6656.4	6661.1	6656.4	6392.5	5984.8	5803.4	5369.9	5827.0	7436.3	7521.1	6482.0
47.5°	7108.8	7250.1	7238.4	7080.5	6764.8	6696.4	6105.0	6581.0	8397.6	8546.1	7207.7
50°	7342.0	7499.9	7547.0	7629.5	7615.4	7759.1	6908.5	7455.1	9227.0	9592.2	8140.8
52.5°	7278.4	7290.2	7580.0	7905.2	8423.5	8826.5	7876.9	8447.1	10197.8	10558.3	8861.8
55°	6757.7	6712.9	7309.0	7681.3	8753.4	9479.1	9217.6	9684.1	10954.1	11503.1	9606.4
57.5°	5614.9	5626.7	6178.1	6934.4	8508.4	9738.3	10650.2	11300.5	12014.4	12568.2	10652.5
60°	3876.0	3861.9	4479.2	5353.4	7068.7	9255.3	11474.9	13395.2	13432.9	14217.5	12530.5
62.5°	2179.5	2184.2	2653.1	3400.0	4945.7	7563.5	11434.8	15619.5	15459.3	16147.3	14665.2
65°	1234.7	1265.3	1588.1	2014.6	2961.8	5077.7	9834.9	16505.4	17021.5	17634.1	15961.1
66°	1043.8	1065.0	1340.7	1663.5	2363.3	4118.7	8852.4	16333.4	17511.5	17978.1	15935.2
67.5°	808.2	836.5	1067.4	1319.5	1734.2	2851.0	7125.3	15478.1	17601.1	17874.4	15485.2
70°	553.7	572.6	749.3	1001.4	1185.2	1458.5	4260.1	12796.7	15970.6	16201.5	13458.8
72.5°	388.8	398.2	525.4	758.7	911.9	834.1	2113.5	9104.5	12221.8	12671.8	10468.8
75°	280.4	289.8	360.5	544.3	711.6	546.6	968.4	5815.2	7495.2	7848.6	6305.3
77.5°	202.6	214.4	245.0	351.1	516.0	384.1	476.0	3037.2	3534.4	3473.1	2712.0
80°	122.5	134.3	181.4	226.2	377.0	271.0	261.5	1267.7	1253.5	1189.9	853.0
82.5°	56.5	66.0	96.6	153.2	263.9	188.5	124.9	452.4	395.8	362.9	240.3
85°	16.5	21.2	56.5	115.5	134.3	91.9	75.4	155.5	162.6	139.0	80.1
87.5°	0.0	2.4	25.9	28.3	40.1	30.6	28.3	40.1	75.4	61.3	25.9
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°	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5
2.5°	1920.3	1903.8	1863.8	1802.5	1748.3	1720.1	1680.0	1644.7	1625.8	1623.4	1621.1
5°	1967.5	1922.7	1826.1	1715.3	1632.9	1543.3	1482.1	1437.3	1394.9	1354.8	1378.4
7.5°	2031.1	1960.4	1802.5	1658.8	1479.7	1364.3	1255.9	1192.3	1154.6	1119.2	1114.5
10°	2130.0	2040.5	1786.0	1526.8	1321.8	1152.2	1041.5	949.6	897.7	836.5	860.0
12.5°	2264.3	2104.1	1724.8	1406.7	1142.8	963.7	805.8	657.4	574.9	511.3	513.7
15°	2398.6	2188.9	1668.2	1260.6	980.2	744.6	513.7	412.3	388.8	374.6	379.4
17.5°	2530.6	2257.3	1581.0	1112.1	794.1	473.6	374.6	353.4	341.7	327.5	327.5
20°	2690.8	2302.0	1472.6	975.5	546.6	351.1	320.4	306.3	287.5	268.6	271.0
22.5°	2846.3	2339.7	1347.8	801.1	367.6	304.0	268.6	249.8	233.3	214.4	214.4
25°	3001.8	2351.5	1185.2	574.9	296.9	242.7	209.7	183.8	167.3	150.8	153.2
27.5°	3107.9	2278.5	1032.0	367.6	238.0	183.8	146.1	124.9	110.7	94.2	94.2
30°	3169.1	2144.2	867.1	259.2	179.1	124.9	87.2	66.0	51.8	40.1	37.7
32.5°	3230.4	2035.8	681.0	197.9	117.8	66.0	33.0	11.8	0.0	0.0	0.0
35°	3352.9	1913.3	457.1	110.7	40.1	2.4	0.0	0.0	0.0	0.0	0.0
37.5°	3430.7	1743.6	209.7	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3626.2	1658.8	51.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3944.3	1599.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4293.1	1576.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4757.2	1639.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5247.3	1811.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5784.6	1974.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6253.5	2170.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7115.8	2631.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8663.9	3539.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10407.5	4213.0	25.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11046.0	4196.5	44.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	10932.9	3965.5	44.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10346.2	3522.6	40.1	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8885.4	2910.0	40.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6774.2	2266.7	37.7	9.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	4088.1	1206.4	30.6	11.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1628.2	424.1	23.6	9.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	440.6	127.2	14.1	9.4	7.1	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	115.5	47.1	11.8	9.4	4.7	2.4	0.0	0.0	0.0	0.0	0.0
85°	44.8	18.8	9.4	7.1	7.1	4.7	2.4	0.0	0.0	0.0	0.0
87.5°	14.1	7.1	7.1	4.7	4.7	2.4	2.4	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)