

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: P481707

Luminaire Tested: **IFLD-S-SA3C-750-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481707
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-750-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

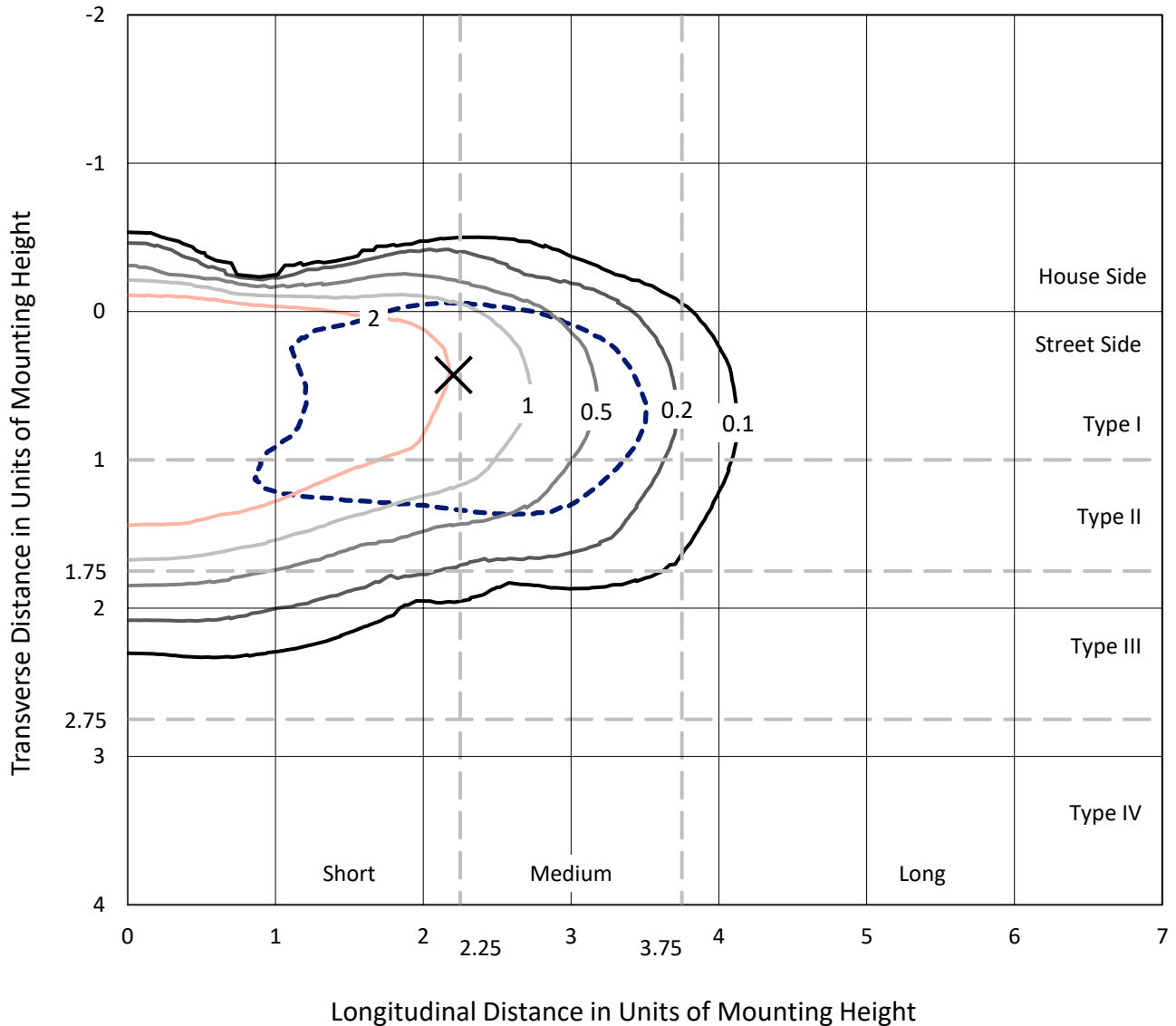
Lumens per Lamp: N/A
Luminaire Lumens: 15603.3 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 160.8
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

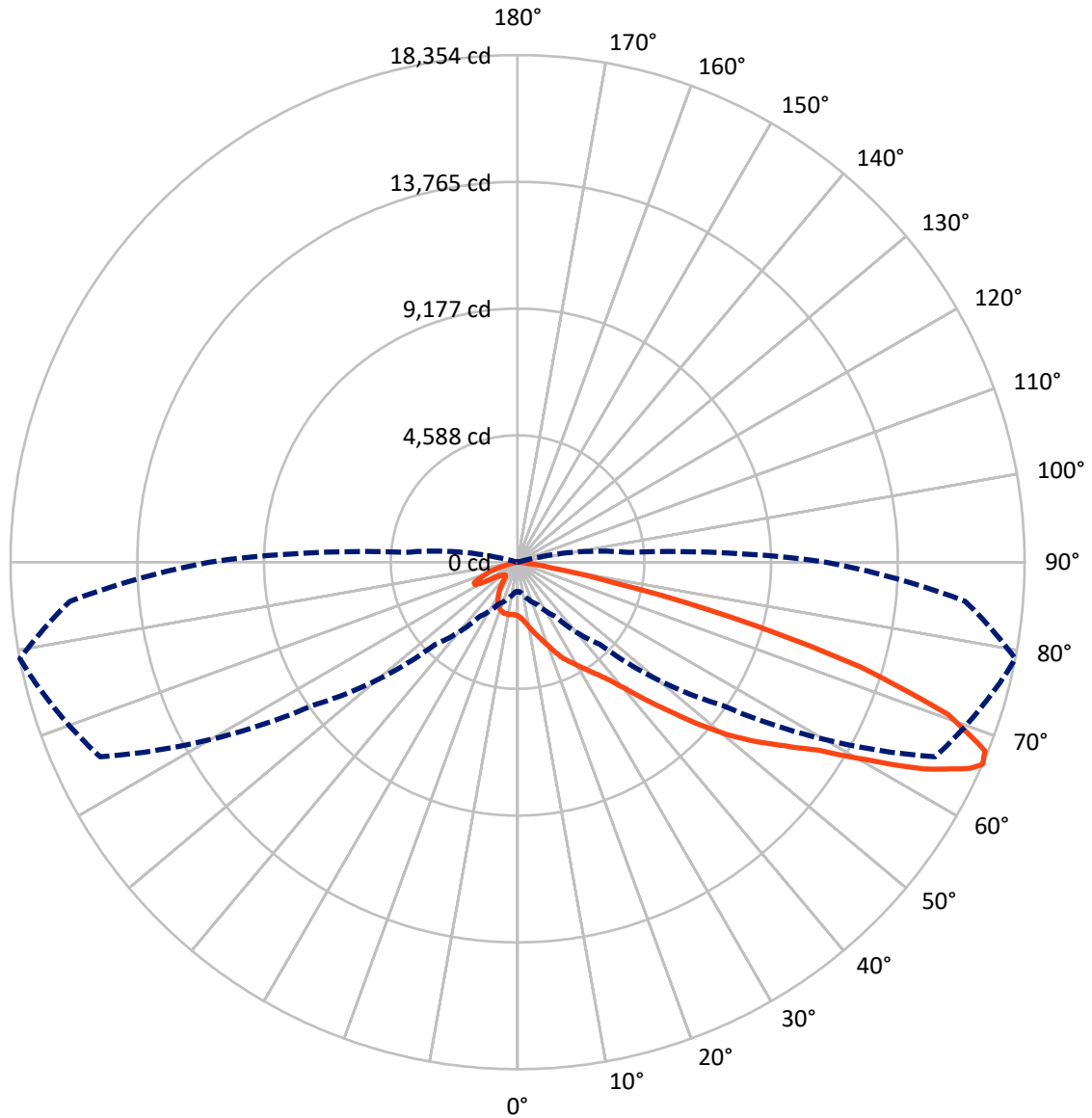
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	1171.6	0.0	1171.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	14431.7	0.0	14431.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	15603.3	0.0	15603.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.6	1.2
10°-20°	505.3	3.2
20°-30°	839.4	5.4
30°-40°	1441.7	9.2
40°-50°	2611.8	16.7
50°-60°	4128.5	26.5
60°-70°	4201.1	26.9
70°-80°	1602.1	10.3
80°-90°	89.8	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°	15603.3	100.0
0°-180°	15603.3	100.0

Coefficient of Utilization



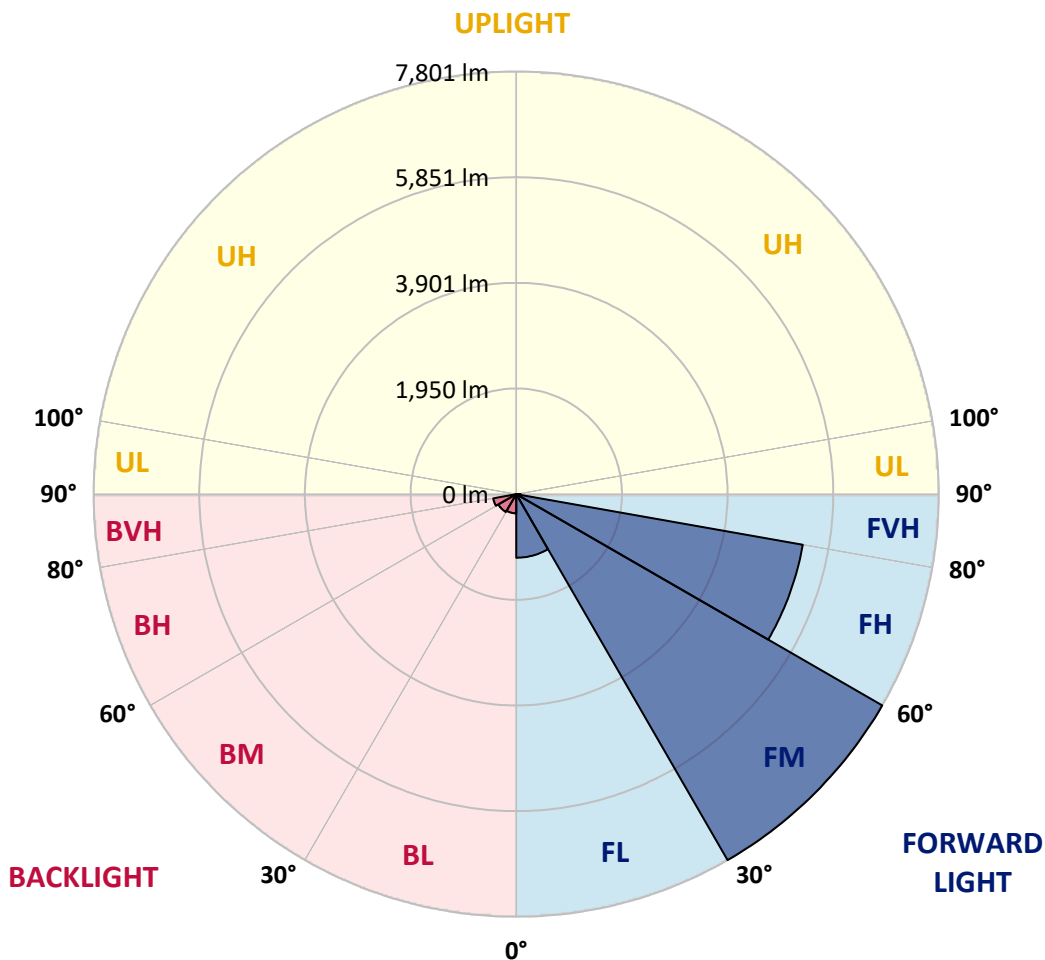
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1173.9	7.5			
FM (30°-60°)	7801.3	50.0			
FH (60°-80°)	5371.3	34.4			G3/7500
FVH (80°-90°)	85.2	0.5			G1/100
BL (0°-30°)	354.3	2.3	B1/500		
BM (30°-60°)	380.8	2.4	B1/1000		
BH (60°-80°)	431.9	2.8	B1/500		G1/500
BVH (80°-90°)	4.6	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°	1941.2	1941.2	1941.2	1941.2	1941.2	1941.2	1941.2	1941.2	1941.2	1941.2	1941.2
2.5°	2198.6	2196.2	2186.6	2169.8	2148.1	2140.9	2109.6	2066.3	2042.3	2015.8	2003.8
5°	2350.2	2338.1	2367.0	2355.0	2359.8	2302.1	2263.6	2232.3	2140.9	2104.8	2047.1
7.5°	2383.8	2395.9	2393.5	2412.7	2432.0	2453.6	2427.1	2381.4	2290.0	2237.1	2174.6
10°	2383.8	2379.0	2398.3	2424.7	2480.1	2528.2	2600.3	2540.2	2470.4	2407.9	2294.8
12.5°	2340.5	2333.3	2352.6	2407.9	2506.5	2605.2	2684.5	2742.3	2643.6	2593.1	2446.4
15°	2208.2	2201.0	2280.4	2379.0	2508.9	2670.1	2836.1	2929.9	2862.5	2783.2	2619.6
17.5°	2044.7	2054.3	2138.5	2302.1	2508.9	2701.4	2913.1	3117.5	3107.9	3006.9	2836.1
20°	1989.3	1996.6	2080.8	2198.6	2434.4	2723.0	3033.3	3322.0	3379.7	3259.4	3035.7
22.5°	2095.2	2088.0	2095.2	2167.4	2383.8	2703.8	3112.7	3555.3	3658.8	3564.9	3297.9
25°	2456.0	2451.2	2391.1	2280.4	2355.0	2660.5	3153.6	3709.3	3947.4	3860.8	3509.6
27.5°	2985.2	2966.0	2872.2	2641.2	2489.7	2686.9	3221.0	3858.4	4200.0	4101.4	3699.7
30°	3552.9	3507.2	3384.5	3095.9	2838.5	2785.6	3259.4	3969.1	4481.4	4356.4	3865.6
32.5°	3945.0	4005.1	3966.7	3673.2	3278.7	3014.1	3322.0	4108.6	4741.2	4659.4	4149.5
35°	4551.2	4621.0	4459.8	4200.0	3803.1	3377.3	3454.3	4221.6	5140.5	5003.4	4414.1
37.5°	5316.1	5369.1	5253.6	4760.5	4341.9	3824.7	3726.1	4457.4	5484.5	5419.6	4753.3
40°	5701.0	5956.0	5792.4	5347.4	4897.6	4450.2	4175.9	4734.0	6083.5	6030.6	5222.3
42.5°	6232.6	6360.1	6275.9	5946.4	5477.3	5118.9	4731.6	5272.8	6810.0	6810.0	5857.4
45°	6795.5	6800.3	6795.5	6526.1	6110.0	5924.7	5482.1	5948.8	7591.7	7678.3	6617.5
47.5°	7257.4	7401.7	7389.7	7228.5	6906.2	6836.4	6232.6	6718.5	8573.2	8724.7	7358.4
50°	7495.5	7656.7	7704.8	7789.0	7774.6	7921.3	7052.9	7611.0	9419.9	9792.8	8311.0
52.5°	7430.6	7442.6	7738.5	8070.4	8599.6	9011.0	8041.6	8623.7	10411.0	10779.0	9047.1
55°	6899.0	6853.3	7461.8	7841.9	8936.4	9677.3	9410.3	9886.6	11183.1	11743.6	9807.2
57.5°	5732.3	5744.3	6307.2	7079.4	8686.2	9941.9	10872.8	11536.8	12265.6	12830.9	10875.2
60°	3957.0	3942.6	4572.8	5465.3	7216.5	9448.8	11714.8	13675.2	13713.7	14514.8	12792.4
62.5°	2225.1	2229.9	2708.6	3471.1	5049.1	7721.6	11673.9	15946.0	15782.4	16484.9	14971.8
65°	1260.5	1291.8	1621.3	2056.7	3023.7	5183.8	10040.5	16850.5	17377.3	18002.7	16294.8
66°	1065.6	1087.3	1368.7	1698.3	2412.7	4204.8	9037.4	16674.9	17877.6	18353.9	16268.4
67.5°	825.1	854.0	1089.7	1347.1	1770.4	2910.6	7274.2	15801.7	17969.0	18248.1	15808.9
70°	565.3	584.5	764.9	1022.3	1210.0	1489.0	4349.1	13064.2	16304.4	16540.2	13740.2
72.5°	396.9	406.5	536.4	774.6	930.9	851.5	2157.7	9294.8	12477.3	12936.7	10687.6
75°	286.3	295.9	368.0	555.7	726.5	558.1	988.7	5936.8	7651.9	8012.7	6437.1
77.5°	206.9	218.9	250.2	358.4	526.8	392.1	485.9	3100.7	3608.2	3545.7	2768.7
80°	125.1	137.1	185.2	230.9	384.9	276.6	267.0	1294.2	1279.7	1214.8	870.8
82.5°	57.7	67.4	98.6	156.4	269.4	192.4	127.5	461.9	404.1	370.4	245.4
85°	16.8	21.6	57.7	117.9	137.1	93.8	77.0	158.8	166.0	141.9	81.8
87.5°	0.0	2.4	26.5	28.9	40.9	31.3	28.9	40.9	77.0	62.5	26.5
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°	1941.2	1941.2	1941.2	1941.2	1941.2	1941.2	1941.2	1941.2	1941.2	1941.2	1941.2
2.5°	1960.5	1943.6	1902.7	1840.2	1784.9	1756.0	1715.1	1679.0	1659.8	1657.4	1655.0
5°	2008.6	1962.9	1864.3	1751.2	1667.0	1575.6	1513.1	1467.4	1424.1	1383.2	1407.2
7.5°	2073.5	2001.4	1840.2	1693.5	1510.7	1392.8	1282.1	1217.2	1178.7	1142.6	1137.8
10°	2174.6	2083.2	1823.4	1558.8	1349.5	1176.3	1063.2	969.4	916.5	854.0	878.0
12.5°	2311.7	2148.1	1760.8	1436.1	1166.7	983.8	822.7	671.1	586.9	522.0	524.4
15°	2448.8	2234.7	1703.1	1286.9	1000.7	760.1	524.4	421.0	396.9	382.5	387.3
17.5°	2583.5	2304.5	1614.1	1135.4	810.7	483.5	382.5	360.8	348.8	334.4	334.4
20°	2747.1	2350.2	1503.4	995.9	558.1	358.4	327.1	312.7	293.5	274.2	276.6
22.5°	2905.8	2388.7	1375.9	817.9	375.3	310.3	274.2	255.0	238.1	218.9	218.9
25°	3064.6	2400.7	1210.0	586.9	303.1	247.8	214.1	187.6	170.8	154.0	156.4
27.5°	3172.8	2326.1	1053.6	375.3	243.0	187.6	149.1	127.5	113.1	96.2	96.2
30°	3235.4	2189.0	885.2	264.6	182.8	127.5	89.0	67.4	52.9	40.9	38.5
32.5°	3297.9	2078.3	695.2	202.1	120.3	67.4	33.7	12.0	0.0	0.0	0.0
35°	3423.0	1953.3	466.7	113.1	40.9	2.4	0.0	0.0	0.0	0.0	0.0
37.5°	3502.4	1780.1	214.1	16.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3702.1	1693.5	52.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4026.8	1633.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4382.8	1609.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4856.7	1674.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5357.0	1849.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5905.5	2015.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6384.2	2215.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7264.6	2686.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8845.0	3613.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10625.1	4301.0	26.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11277.0	4284.2	45.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	11161.5	4048.4	45.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10562.5	3596.2	40.9	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9071.1	2970.8	40.9	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6915.8	2314.1	38.5	9.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	4173.5	1231.6	31.3	12.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1662.2	433.0	24.1	9.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	449.8	129.9	14.4	9.6	7.2	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	117.9	48.1	12.0	9.6	4.8	2.4	0.0	0.0	0.0	0.0	0.0
85°	45.7	19.2	9.6	7.2	7.2	4.8	2.4	0.0	0.0	0.0	0.0
87.5°	14.4	7.2	7.2	4.8	4.8	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)