

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: P483598

Luminaire Tested: **IFLD-M-SA4B-735-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483598
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-735-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

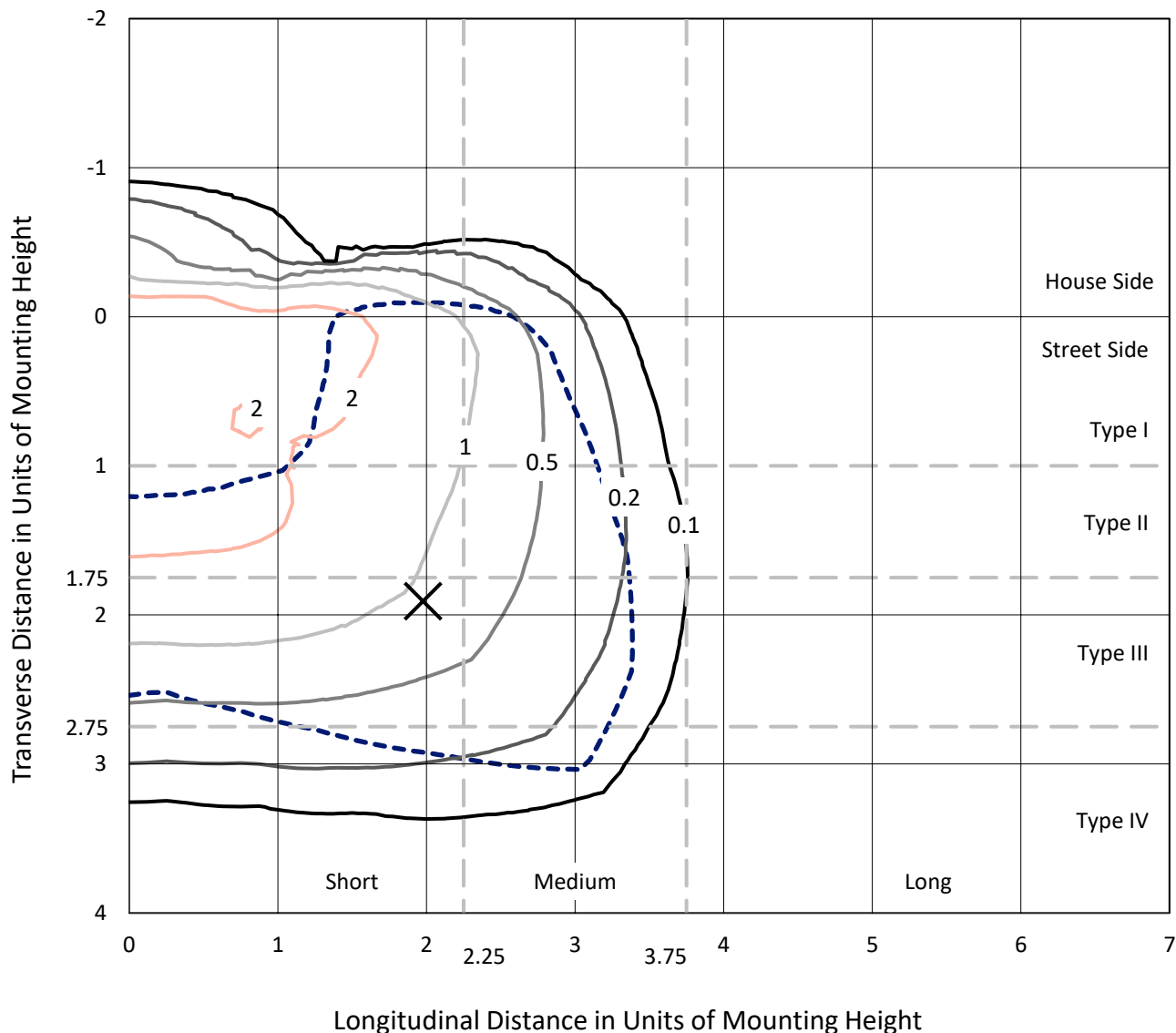
Lumens per Lamp: N/A
Luminaire Lumens: 16620.9 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 166.1
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

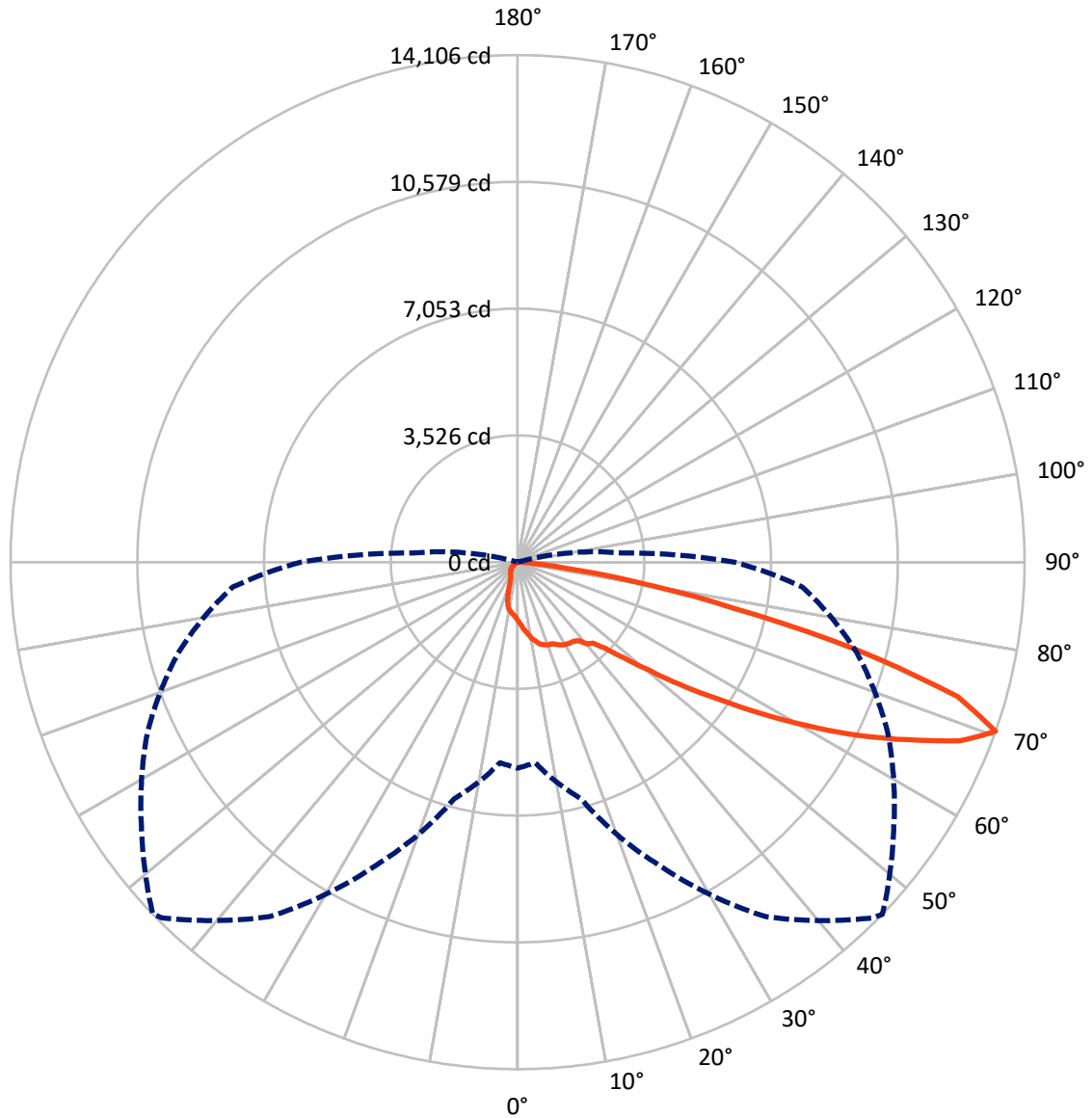
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1653.8	0.0	1653.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	14967.1	0.0	14967.1
	% Fixture	90.0	0.0	90.0
Total	Lumens	16620.9	0.0	16620.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.7	1.0
10°-20°	491.3	3.0
20°-30°	787.0	4.7
30°-40°	1123.3	6.8
40°-50°	1939.7	11.7
50°-60°	3713.7	22.3
60°-70°	5499.4	33.1
70°-80°	2723.8	16.4
80°-90°	180.0	1.1
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°	16620.9	100.0
0°-180°	16620.9	100.0

Coefficient of Utilization

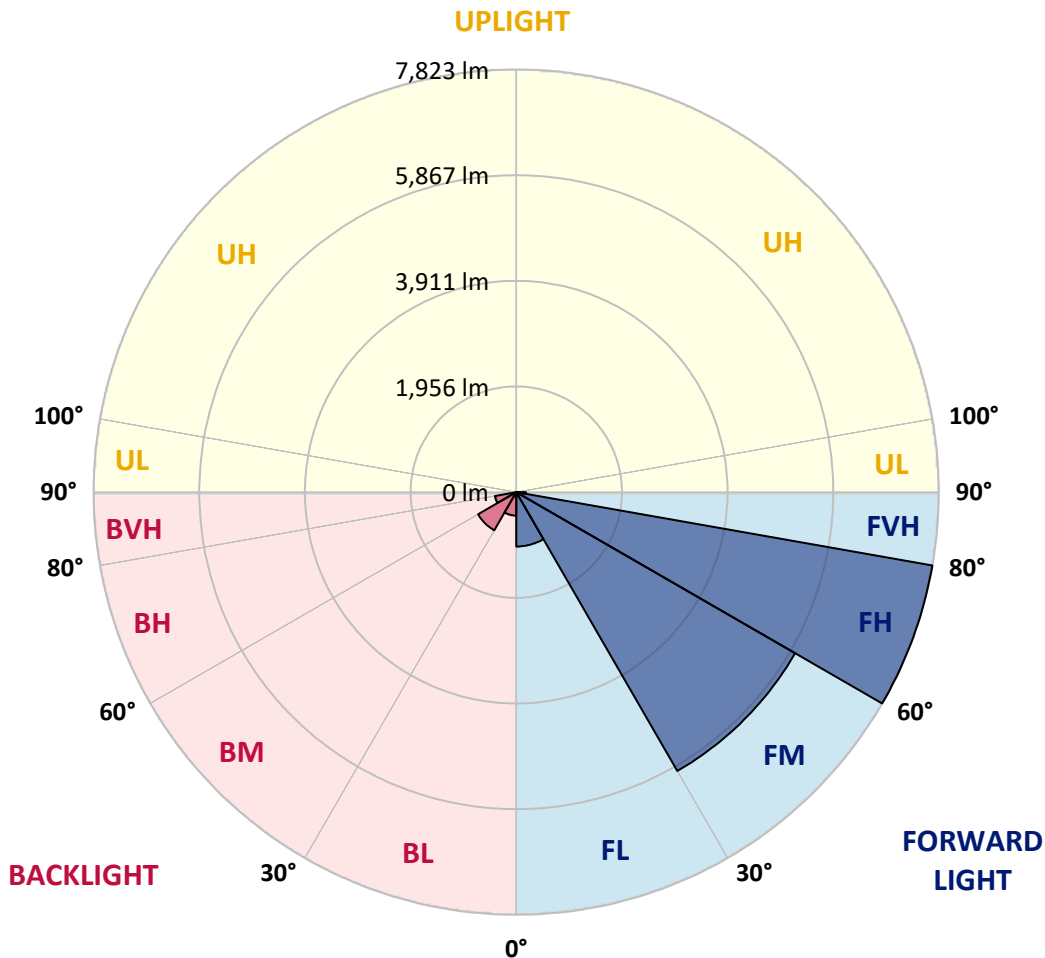


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1006.5	6.1			
FM (30°-60°)	5960.2	35.9			
FH (60°-80°)	7822.6	47.1			G4/12000
FVH (80°-90°)	177.7	1.1			G2/225
BL (0°-30°)	434.5	2.6	B1/500		
BM (30°-60°)	816.5	4.9	B1/1000		
BH (60°-80°)	400.5	2.4	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1631.7	1631.7	1631.7	1631.7	1631.7	1631.7	1631.7	1631.7	1631.7	1631.7	1631.7
2.5°	1820.7	1808.7	1789.6	1782.4	1763.2	1753.7	1739.3	1732.1	1705.8	1679.5	1662.8
5°	2043.2	2014.4	2024.0	1995.3	1933.1	1882.9	1880.5	1825.4	1765.6	1717.8	1653.2
7.5°	2268.0	2244.1	2208.2	2167.6	2098.2	2024.0	2002.5	1949.8	1866.1	1782.4	1696.2
10°	2437.9	2421.2	2390.1	2332.6	2236.9	2153.2	2155.6	2067.1	1978.6	1882.9	1765.6
12.5°	2543.2	2550.4	2504.9	2447.5	2363.7	2258.5	2256.1	2196.3	2095.8	1995.3	1856.5
15°	2648.4	2674.8	2605.4	2538.4	2430.7	2354.2	2368.5	2296.8	2198.7	2083.8	1930.7
17.5°	2665.2	2672.4	2658.0	2559.9	2481.0	2416.4	2418.8	2370.9	2296.8	2172.3	2040.8
20°	2636.5	2631.7	2615.0	2543.2	2490.5	2452.3	2454.7	2442.7	2402.0	2301.5	2122.1
22.5°	2552.7	2552.7	2531.2	2483.4	2459.4	2495.3	2466.6	2512.1	2469.0	2409.2	2260.9
25°	2485.8	2512.1	2500.1	2469.0	2478.6	2526.4	2540.8	2583.9	2576.7	2502.5	2356.6
27.5°	2557.5	2526.4	2533.6	2497.7	2533.6	2605.4	2612.6	2643.7	2641.3	2581.5	2442.7
30°	2605.4	2634.1	2579.1	2500.1	2538.4	2660.4	2655.6	2696.3	2715.4	2643.7	2524.0
32.5°	2758.5	2734.6	2689.1	2583.9	2588.6	2658.0	2679.5	2732.2	2744.1	2701.1	2603.0
35°	3071.9	3036.0	2837.5	2679.5	2655.6	2689.1	2703.5	2806.3	2827.9	2780.0	2686.7
37.5°	3555.2	3473.8	3234.6	2885.3	2777.6	2770.5	2770.5	2906.8	2988.2	2878.1	2811.1
40°	4246.6	4131.8	3873.4	3265.7	2937.9	2966.6	2995.4	3069.5	3059.9	2988.2	2973.8
42.5°	5127.0	5038.5	4758.6	3904.5	3244.2	3100.6	3076.7	3177.2	3327.9	3299.2	3289.6
45°	5861.5	5866.3	5686.9	4780.1	3772.9	3409.2	3426.0	3502.6	3756.2	3734.6	3732.2
47.5°	6397.4	6330.4	6304.1	5624.7	4543.3	3995.4	3971.5	4024.1	4354.3	4490.6	4552.8
50°	6885.5	6840.0	6777.8	6445.3	5469.1	4729.9	4706.0	4710.7	5215.5	5406.9	5560.1
52.5°	7490.8	7548.2	7342.4	7139.1	6667.8	5684.5	5658.2	5564.8	6191.7	6454.8	6636.7
55°	8237.2	8129.6	7897.5	8002.8	7813.8	6715.6	6667.8	6557.7	7304.2	7414.2	7605.6
57.5°	8402.3	8321.0	8560.2	8933.4	9115.2	7926.2	7907.1	7708.5	8239.6	8139.1	8679.8
60°	8813.8	8835.3	9167.9	9909.5	10225.3	9323.4	9230.1	8880.8	9146.4	9165.5	9742.1
62.5°	9237.3	9187.0	9931.1	10644.0	11129.7	10646.4	10615.3	9921.5	10223.0	9978.9	10742.1
65°	8926.2	9002.8	10067.4	11261.3	12302.0	11940.7	11914.4	10923.9	11089.0	10785.2	11148.8
67.5°	7820.9	7665.4	9155.9	10979.0	12904.9	13297.3	13268.5	12017.3	11577.1	10780.4	10304.3
70°	5732.3	5598.3	6813.7	9297.1	12041.2	13991.1	14105.9	12778.1	11378.5	9775.6	7950.1
72.5°	2808.7	2811.1	3818.4	6304.1	9526.8	12751.8	12809.2	11715.8	9775.6	7206.1	4502.6
75°	830.2	839.8	1413.9	3091.1	6158.2	9684.7	9749.2	8892.8	6775.4	3722.7	1536.0
77.5°	303.8	303.8	468.9	1160.3	3071.9	6112.7	6107.9	5459.6	3430.8	1260.8	358.9
80°	157.9	165.1	244.0	473.7	1330.2	3184.4	3304.0	2672.4	1303.9	531.1	105.3
82.5°	64.6	71.8	134.0	244.0	638.8	1117.3	1222.5	1047.9	567.0	370.8	47.8
85°	19.1	21.5	64.6	136.4	251.2	279.9	311.0	351.7	356.5	287.1	21.5
87.5°	2.4	2.4	26.3	45.5	55.0	59.8	69.4	69.4	181.8	201.0	12.0
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°	1631.7	1631.7	1631.7	1631.7	1631.7	1631.7	1631.7	1631.7	1631.7	1631.7	1631.7
2.5°	1643.6	1631.7	1612.5	1569.4	1559.9	1528.8	1526.4	1497.7	1507.2	1488.1	1480.9
5°	1631.7	1605.3	1552.7	1519.2	1485.7	1464.2	1449.8	1437.9	1435.5	1425.9	1421.1
7.5°	1653.2	1617.3	1536.0	1483.3	1425.9	1406.8	1375.7	1373.3	1356.5	1339.8	1339.8
10°	1725.0	1660.4	1571.8	1483.3	1409.2	1347.0	1275.2	1222.5	1203.4	1160.3	1165.1
12.5°	1782.4	1725.0	1595.8	1504.9	1392.4	1251.3	1093.4	971.3	913.9	858.9	880.4
15°	1863.7	1780.0	1641.2	1509.6	1327.8	1083.8	825.4	689.0	636.4	624.4	622.0
17.5°	1952.2	1863.7	1698.6	1497.7	1196.2	837.4	607.7	528.7	538.3	552.7	550.3
20°	2050.3	1942.7	1741.7	1457.0	988.1	607.7	497.6	495.2	509.6	531.1	535.9
22.5°	2153.2	2059.9	1794.3	1335.0	736.9	488.1	478.5	478.5	488.1	514.4	509.6
25°	2268.0	2143.6	1820.7	1146.0	528.7	449.8	454.6	464.1	468.9	490.5	492.8
27.5°	2356.6	2236.9	1827.8	918.7	430.6	416.3	428.2	440.2	447.4	464.1	471.3
30°	2437.9	2354.2	1789.6	684.2	394.8	387.6	392.4	409.1	423.5	437.8	437.8
32.5°	2540.8	2421.2	1701.0	485.7	373.2	361.3	358.9	366.0	382.8	399.5	399.5
35°	2646.1	2533.6	1559.9	390.0	354.1	337.3	327.8	320.6	327.8	339.7	349.3
37.5°	2799.2	2703.5	1382.8	358.9	339.7	315.8	296.7	279.9	268.0	265.6	272.7
40°	3016.9	2894.9	1155.6	337.3	323.0	294.3	265.6	236.9	210.5	193.8	196.2
42.5°	3347.0	3177.2	909.1	325.4	311.0	270.3	229.7	189.0	155.5	138.8	138.8
45°	3818.4	3550.4	667.5	313.4	296.7	241.6	189.0	141.2	107.7	98.1	100.5
47.5°	4528.9	4000.2	478.5	294.3	277.5	210.5	148.3	100.5	79.0	74.2	76.6
50°	5457.2	4533.7	373.2	272.7	253.6	177.0	110.1	74.2	62.2	59.8	62.2
52.5°	6430.9	5072.0	327.8	253.6	217.7	141.2	81.3	59.8	52.6	50.2	52.6
55°	7263.5	5418.9	284.7	224.9	174.6	105.3	64.6	52.6	45.5	38.3	38.3
57.5°	8105.6	5593.6	224.9	186.6	129.2	79.0	55.0	45.5	38.3	31.1	28.7
60°	8789.9	5718.0	160.3	138.8	90.9	62.2	47.8	40.7	31.1	23.9	21.5
62.5°	9239.7	5361.5	117.2	105.3	67.0	52.6	40.7	33.5	23.9	16.7	16.7
65°	9017.2	4868.6	90.9	74.2	50.2	40.7	33.5	23.9	16.7	9.6	7.2
67.5°	8091.3	3966.7	74.2	55.0	38.3	31.1	26.3	19.1	9.6	2.4	2.4
70°	6036.2	2906.8	59.8	40.7	31.1	23.9	19.1	12.0	4.8	2.4	0.0
72.5°	3301.6	1591.0	47.8	33.5	23.9	19.1	14.4	9.6	4.8	0.0	0.0
75°	1091.0	423.5	35.9	23.9	14.4	12.0	9.6	7.2	2.4	0.0	0.0
77.5°	263.2	110.1	28.7	21.5	12.0	7.2	4.8	2.4	2.4	0.0	0.0
80°	81.3	45.5	21.5	14.4	9.6	7.2	2.4	0.0	0.0	0.0	0.0
82.5°	33.5	21.5	9.6	9.6	7.2	2.4	0.0	0.0	0.0	0.0	0.0
85°	16.7	12.0	7.2	4.8	4.8	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	12.0	4.8	2.4	2.4	0.0	0.0	0.0	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)