

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: P483521

Luminaire Tested: **IFLD-M-SA4C-727-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483521
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-727-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17543.8 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

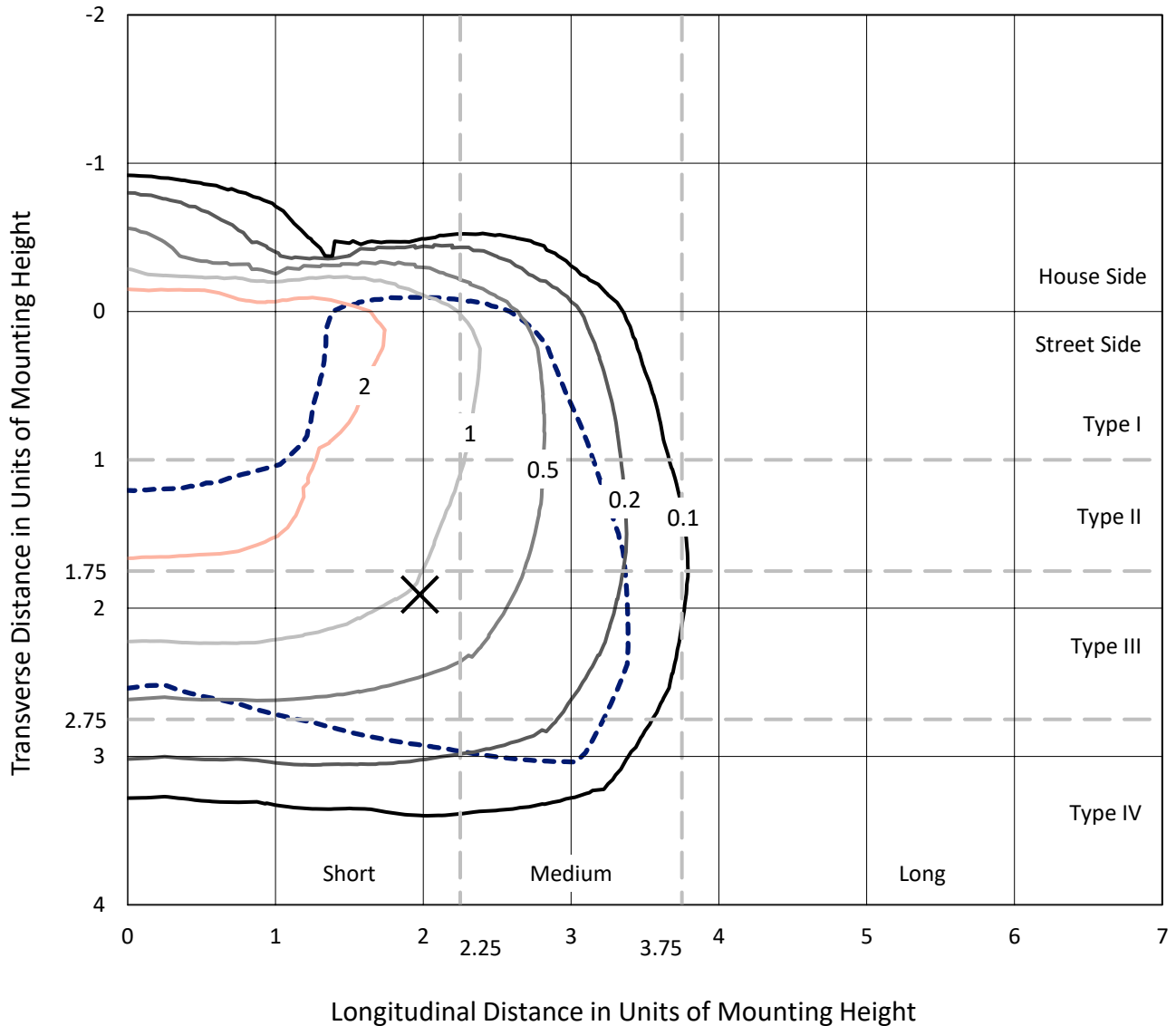
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

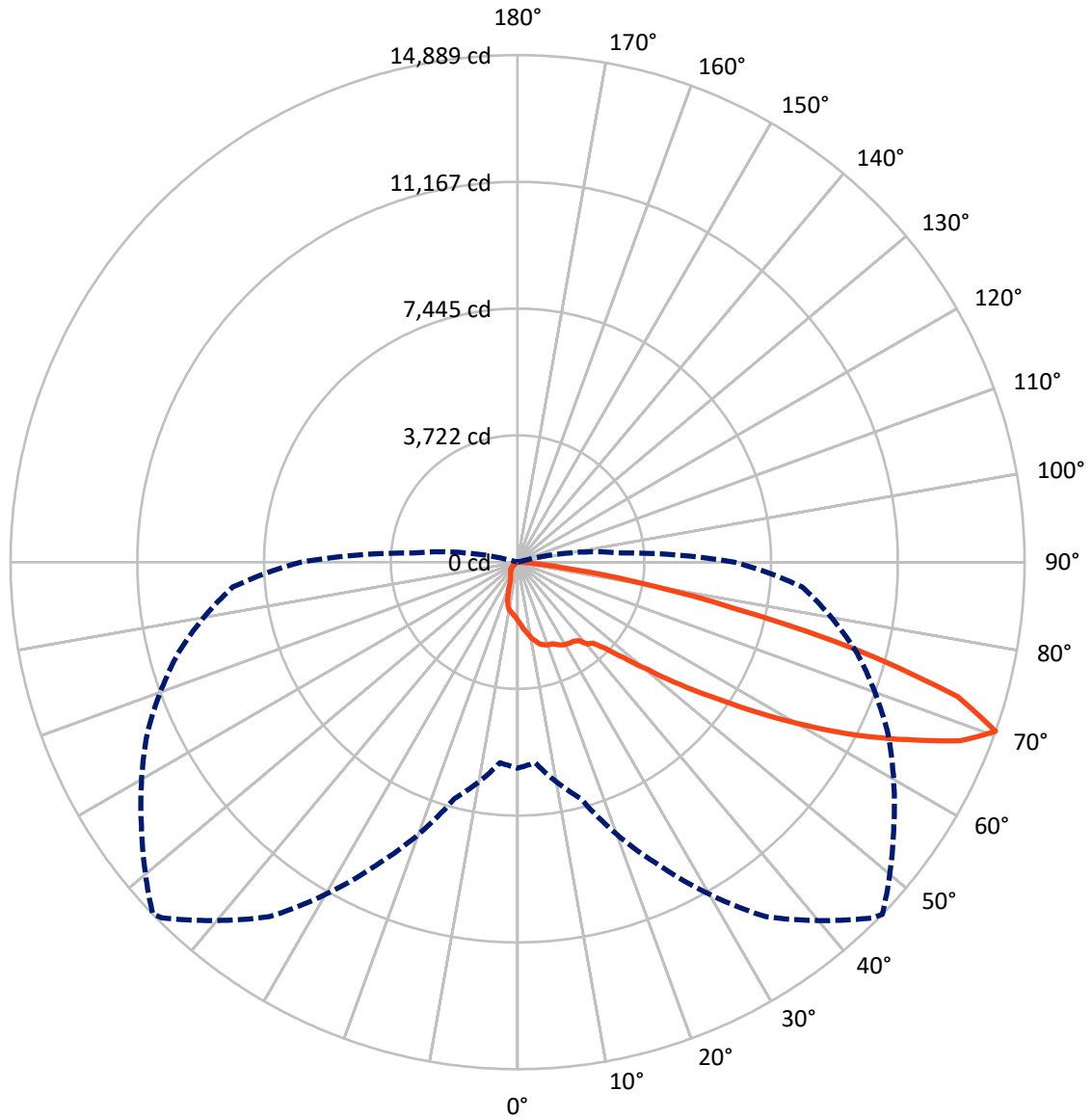
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	1745.7	0.0	1745.7
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	15798.2	0.0	15798.2
	% Fixture	90.0	0.0	90.0
Total	Lumens	17543.8	0.0	17543.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.7	1.0
10°-20°	518.6	3.0
20°-30°	830.7	4.7
30°-40°	1185.7	6.8
40°-50°	2047.4	11.7
50°-60°	3919.9	22.3
60°-70°	5804.8	33.1
70°-80°	2875.0	16.4
80°-90°	190.0	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°	17543.8	100.0
0°-180°	17543.8	100.0

Coefficient of Utilization

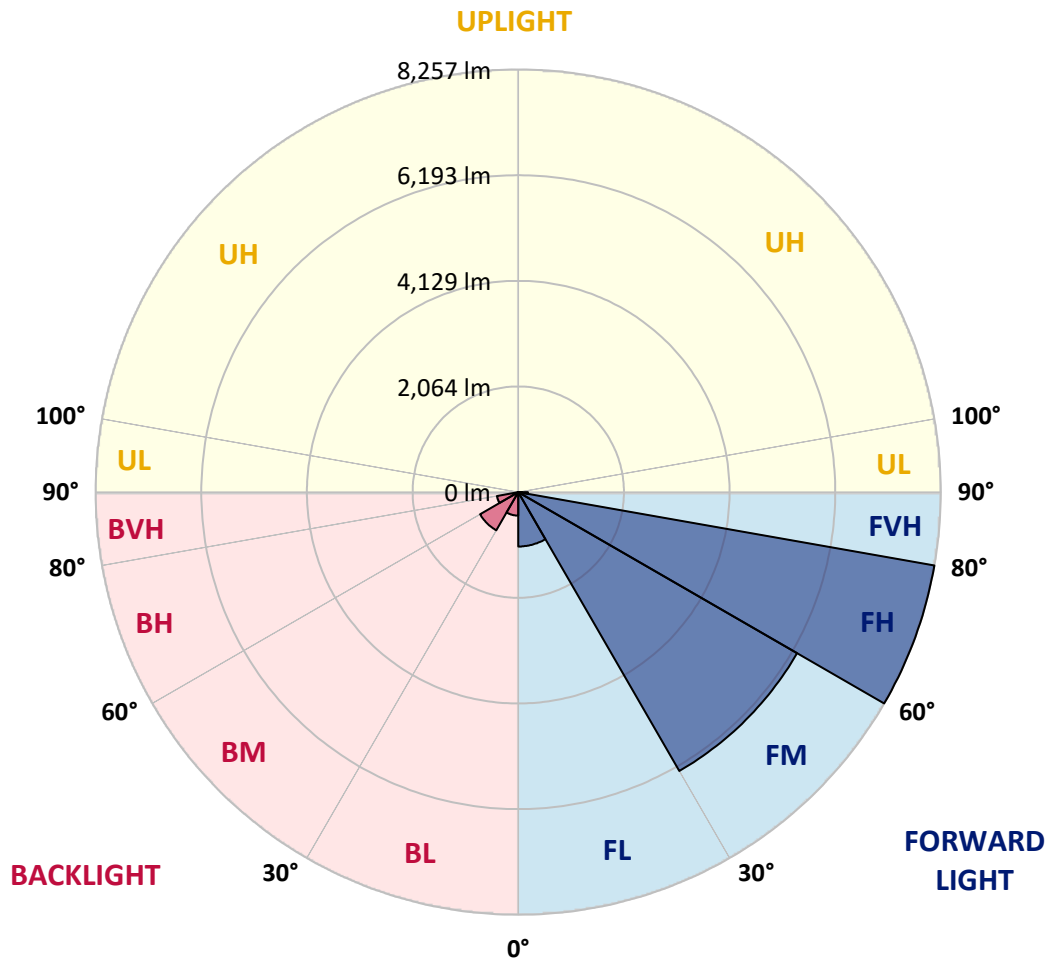


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1062.4	6.1			
FM (30°-60°)	6291.2	35.9			
FH (60°-80°)	8257.0	47.1			G4/12000
FVH (80°-90°)	187.6	1.1			G2/225
BL (0°-30°)	458.6	2.6	B1/500		
BM (30°-60°)	861.8	4.9	B1/1000		
BH (60°-80°)	422.8	2.4	B1/500		G1/500
BVH (80°-90°)	2.4	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°	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3
2.5°	1921.8	1909.1	1888.9	1881.4	1861.1	1851.0	1835.9	1828.3	1800.5	1772.8	1755.1
5°	2156.6	2126.3	2136.4	2106.1	2040.4	1987.4	1984.9	1926.8	1863.7	1813.2	1745.0
7.5°	2394.0	2368.7	2330.9	2287.9	2214.7	2136.4	2113.7	2058.1	1969.7	1881.4	1790.4
10°	2573.3	2555.6	2522.8	2462.2	2361.2	2272.8	2275.3	2181.9	2088.4	1987.4	1863.7
12.5°	2684.4	2692.0	2644.0	2583.4	2495.0	2383.9	2381.4	2318.2	2212.2	2106.1	1959.6
15°	2795.5	2823.3	2750.1	2679.3	2565.7	2484.9	2500.1	2424.3	2320.8	2199.5	2037.9
17.5°	2813.2	2820.8	2805.6	2702.1	2618.7	2550.6	2553.1	2502.6	2424.3	2293.0	2154.1
20°	2782.9	2777.8	2760.2	2684.4	2628.8	2588.4	2591.0	2578.3	2535.4	2429.3	2239.9
22.5°	2694.5	2694.5	2671.8	2621.3	2596.0	2633.9	2603.6	2651.6	2606.1	2543.0	2386.4
25°	2623.8	2651.6	2638.9	2606.1	2616.2	2666.7	2681.9	2727.3	2719.8	2641.5	2487.4
27.5°	2699.6	2666.7	2674.3	2636.4	2674.3	2750.1	2757.6	2790.5	2787.9	2724.8	2578.3
30°	2750.1	2780.4	2722.3	2638.9	2679.3	2808.1	2803.1	2846.0	2866.2	2790.5	2664.2
32.5°	2911.7	2886.4	2838.4	2727.3	2732.4	2805.6	2828.3	2883.9	2896.5	2851.1	2747.5
35°	3242.5	3204.6	2995.0	2828.3	2803.1	2838.4	2853.6	2962.2	2984.9	2934.4	2835.9
37.5°	3752.6	3666.7	3414.2	3045.5	2931.9	2924.3	2924.3	3068.2	3154.1	3037.9	2967.2
40°	4482.4	4361.2	4088.5	3447.0	3101.1	3131.4	3161.7	3240.0	3229.9	3154.1	3139.0
42.5°	5411.7	5318.3	5022.8	4121.3	3424.3	3272.8	3247.5	3353.6	3512.7	3482.4	3472.3
45°	6187.0	6192.0	6002.6	5045.6	3982.4	3598.6	3616.2	3697.0	3964.7	3942.0	3939.5
47.5°	6752.7	6682.0	6654.2	5937.0	4795.6	4217.3	4192.0	4247.6	4596.1	4740.0	4805.7
50°	7267.8	7219.8	7154.2	6803.2	5772.8	4992.5	4967.3	4972.3	5505.2	5707.2	5868.8
52.5°	7906.7	7967.3	7750.2	7535.5	7038.0	6000.1	5972.3	5873.9	6535.5	6813.3	7005.2
55°	8694.6	8581.0	8336.0	8447.1	8247.6	7088.5	7038.0	6921.9	7709.8	7825.9	8027.9
57.5°	8868.9	8783.0	9035.5	9429.5	9621.4	8366.3	8346.1	8136.5	8697.1	8591.1	9161.8
60°	9303.2	9325.9	9677.0	10459.8	10793.1	9841.1	9742.6	9373.9	9654.2	9674.4	10283.0
62.5°	9750.2	9697.2	10482.5	11235.1	11747.7	11237.6	11204.8	10472.4	10790.6	10533.0	11338.6
65°	9421.9	9502.7	10626.5	11886.6	12985.1	12603.8	12576.0	11530.5	11704.8	11384.1	11767.9
67.5°	8255.2	8091.1	9664.3	11588.6	13621.5	14035.6	14005.3	12684.6	12219.9	11379.0	10876.5
70°	6050.6	5909.2	7192.1	9813.3	12709.9	14768.0	14889.2	13487.6	12010.3	10318.4	8391.6
72.5°	2964.7	2967.2	4030.4	6654.2	10055.8	13459.9	13520.5	12366.4	10318.4	7606.2	4752.6
75°	876.3	886.4	1492.5	3262.7	6500.1	10222.4	10290.6	9386.6	7151.7	3929.4	1621.2
77.5°	320.7	320.7	495.0	1224.8	3242.5	6452.2	6447.1	5762.7	3621.3	1330.8	378.8
80°	166.7	174.2	257.6	500.0	1404.1	3361.2	3487.4	2820.8	1376.3	560.6	111.1
82.5°	68.2	75.8	141.4	257.6	674.3	1179.3	1290.4	1106.1	598.5	391.4	50.5
85°	20.2	22.7	68.2	143.9	265.2	295.5	328.3	371.2	376.3	303.0	22.7
87.5°	2.5	2.5	27.8	48.0	58.1	63.1	73.2	73.2	191.9	212.1	12.6
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°	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3
2.5°	1734.9	1722.3	1702.1	1656.6	1646.5	1613.7	1611.1	1580.8	1590.9	1570.7	1563.2
5°	1722.3	1694.5	1638.9	1603.6	1568.2	1545.5	1530.3	1517.7	1515.2	1505.1	1500.0
7.5°	1745.0	1707.1	1621.2	1565.7	1505.1	1484.9	1452.0	1449.5	1431.8	1414.2	1414.2
10°	1820.7	1752.6	1659.1	1565.7	1487.4	1421.7	1346.0	1290.4	1270.2	1224.8	1229.8
12.5°	1881.4	1820.7	1684.4	1588.4	1469.7	1320.7	1154.1	1025.3	964.7	906.6	929.3
15°	1967.2	1878.8	1732.4	1593.5	1401.5	1144.0	871.2	727.3	671.7	659.1	656.6
17.5°	2060.6	1967.2	1793.0	1580.8	1262.7	883.9	641.4	558.1	568.2	583.3	580.8
20°	2164.2	2050.5	1838.4	1537.9	1043.0	641.4	525.3	522.7	537.9	560.6	565.7
22.5°	2272.8	2174.3	1894.0	1409.1	777.8	515.2	505.1	505.1	515.2	542.9	537.9
25°	2394.0	2262.7	1921.8	1209.6	558.1	474.8	479.8	489.9	495.0	517.7	520.2
27.5°	2487.4	2361.2	1929.3	969.7	454.6	439.4	452.0	464.7	472.2	489.9	497.5
30°	2573.3	2484.9	1888.9	722.2	416.7	409.1	414.1	431.8	447.0	462.1	462.1
32.5°	2681.9	2555.6	1795.5	512.6	393.9	381.3	378.8	386.4	404.0	421.7	421.7
35°	2793.0	2674.3	1646.5	411.6	373.7	356.1	346.0	338.4	346.0	358.6	368.7
37.5°	2954.6	2853.6	1459.6	378.8	358.6	333.3	313.1	295.5	282.8	280.3	287.9
40°	3184.4	3055.6	1219.7	356.1	340.9	310.6	280.3	250.0	222.2	204.5	207.1
42.5°	3532.9	3353.6	959.6	343.4	328.3	285.4	242.4	199.5	164.1	146.5	146.5
45°	4030.4	3747.6	704.6	330.8	313.1	255.1	199.5	149.0	113.6	103.5	106.1
47.5°	4780.4	4222.3	505.1	310.6	292.9	222.2	156.6	106.1	83.3	78.3	80.8
50°	5760.2	4785.5	393.9	287.9	267.7	186.9	116.2	78.3	65.7	63.1	65.7
52.5°	6788.0	5353.6	346.0	267.7	229.8	149.0	85.9	63.1	55.6	53.0	55.6
55°	7666.8	5719.8	300.5	237.4	184.3	111.1	68.2	55.6	48.0	40.4	40.4
57.5°	8555.7	5904.2	237.4	197.0	136.4	83.3	58.1	48.0	40.4	32.8	30.3
60°	9278.0	6035.5	169.2	146.5	96.0	65.7	50.5	42.9	32.8	25.3	22.7
62.5°	9752.7	5659.2	123.7	111.1	70.7	55.6	42.9	35.4	25.3	17.7	17.7
65°	9517.9	5139.0	96.0	78.3	53.0	42.9	35.4	25.3	17.7	10.1	7.6
67.5°	8540.6	4187.0	78.3	58.1	40.4	32.8	27.8	20.2	10.1	2.5	2.5
70°	6371.3	3068.2	63.1	42.9	32.8	25.3	20.2	12.6	5.1	2.5	0.0
72.5°	3484.9	1679.3	50.5	35.4	25.3	20.2	15.2	10.1	5.1	0.0	0.0
75°	1151.5	447.0	37.9	25.3	15.2	12.6	10.1	7.6	2.5	0.0	0.0
77.5°	277.8	116.2	30.3	22.7	12.6	7.6	5.1	2.5	2.5	0.0	0.0
80°	85.9	48.0	22.7	15.2	10.1	7.6	2.5	0.0	0.0	0.0	0.0
82.5°	35.4	22.7	10.1	10.1	7.6	2.5	0.0	0.0	0.0	0.0	0.0
85°	17.7	12.6	7.6	5.1	5.1	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	12.6	5.1	2.5	2.5	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)