

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: P483749

Luminaire Tested: **IFLD-S-SA6B-827-U-T4W-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483749
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-827-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

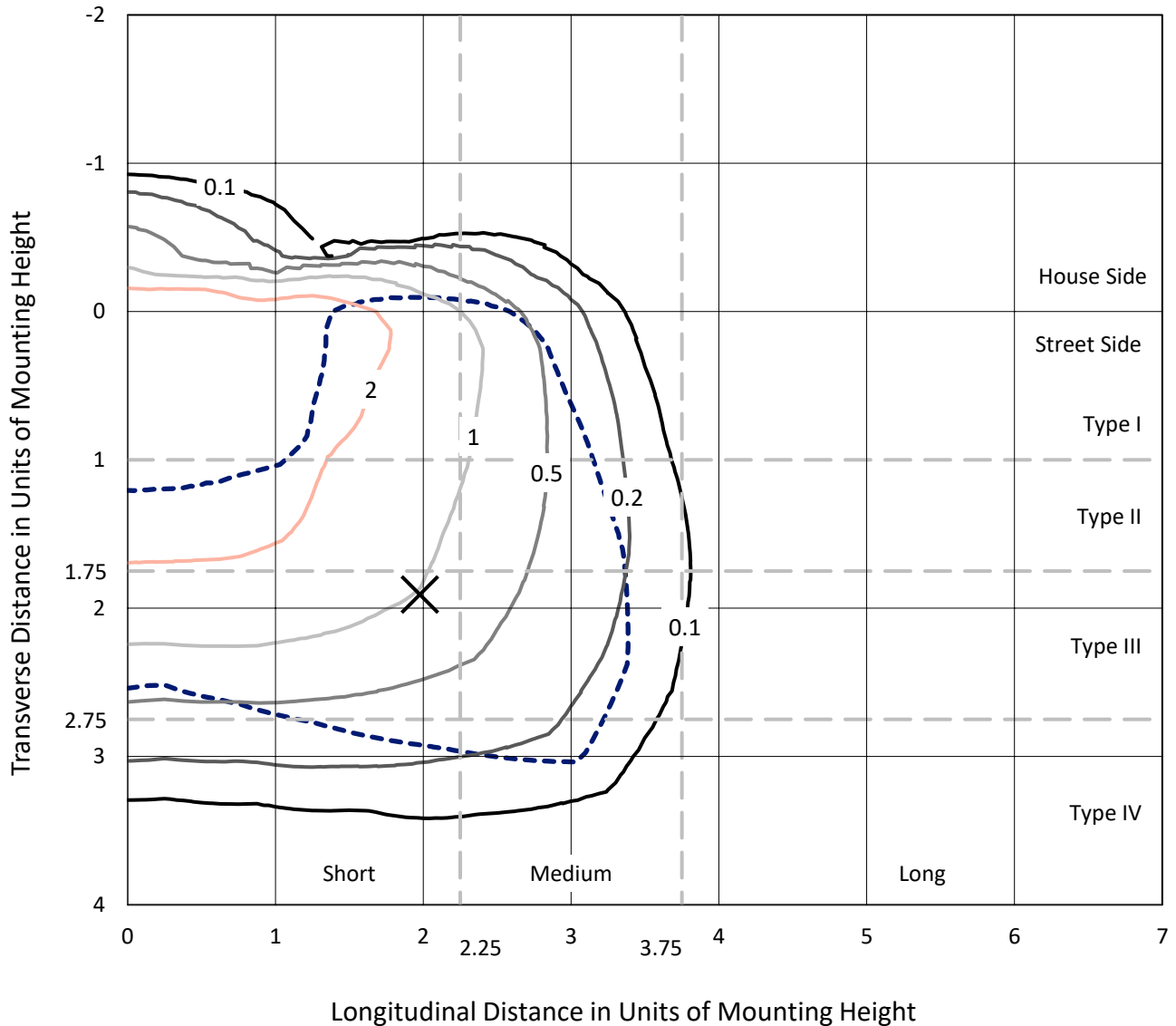
Lumens per Lamp: N/A
Luminaire Lumens: 18104.6 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 244.9
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

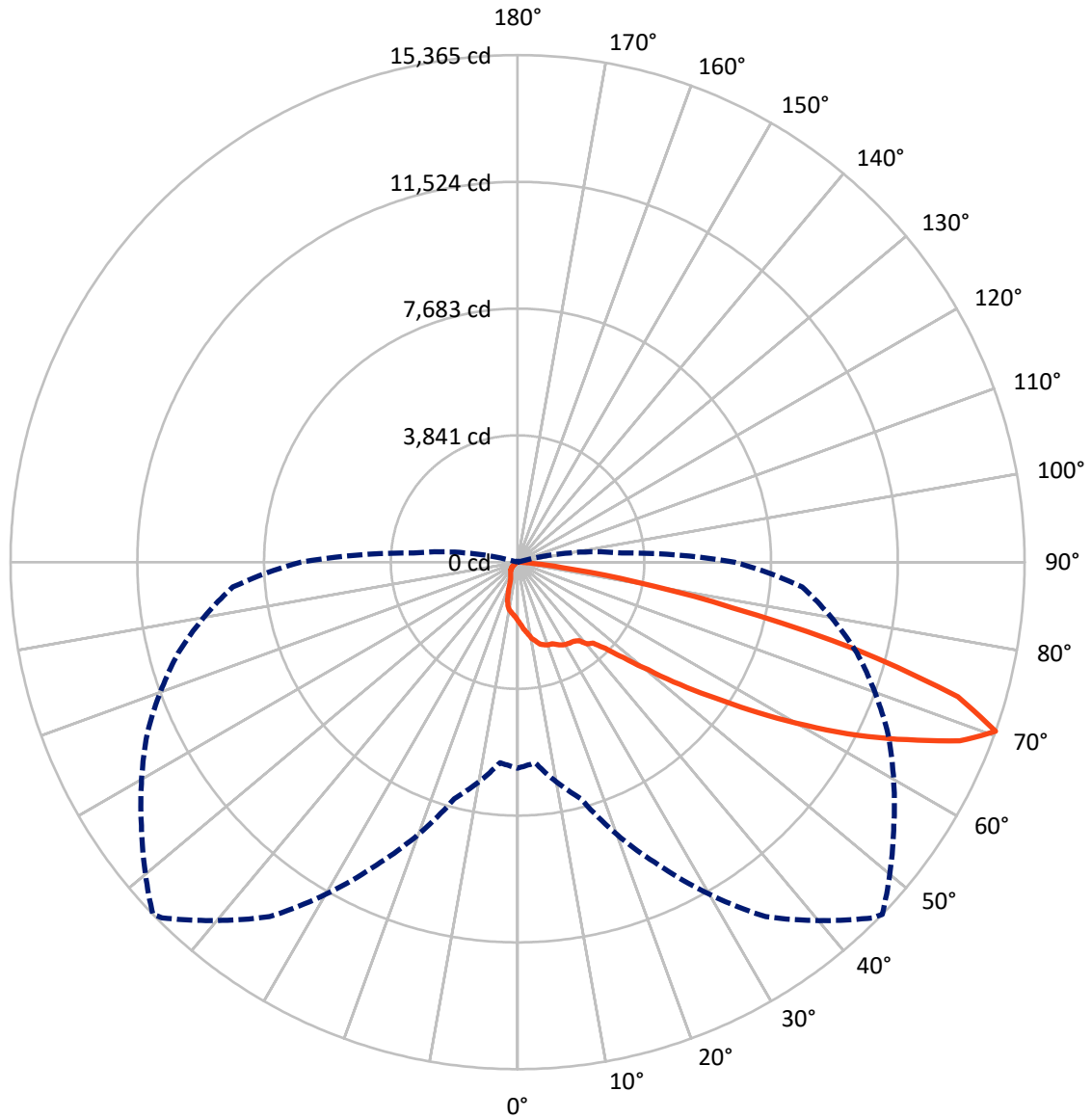
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	1801.4	0.0	1801.4
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	16303.1	0.0	16303.1
	% Fixture	90.0	0.0	90.0
Total	Lumens	18104.6	0.0	18104.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.2	1.0
10°-20°	535.2	3.0
20°-30°	857.2	4.7
30°-40°	1223.6	6.8
40°-50°	2112.8	11.7
50°-60°	4045.2	22.3
60°-70°	5990.3	33.1
70°-80°	2966.9	16.4
80°-90°	196.0	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°	18104.6	100.0
0°-180°	18104.6	100.0

Coefficient of Utilization

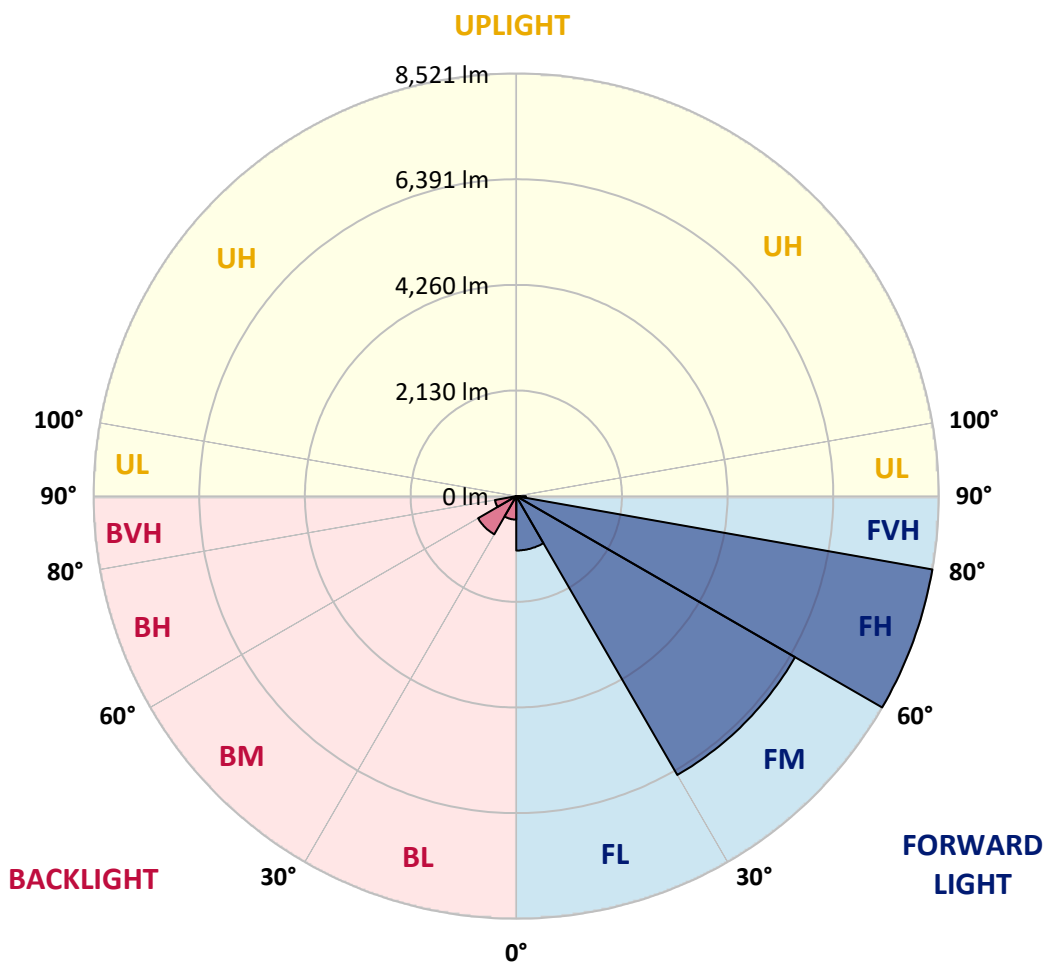


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1096.4	6.1			
FM (30°-60°)	6492.3	35.9			
FH (60°-80°)	8520.9	47.1			G4/12000
FVH (80°-90°)	193.6	1.1			G2/225
BL (0°-30°)	473.3	2.6	B1/500		
BM (30°-60°)	889.4	4.9	B1/1000		
BH (60°-80°)	436.3	2.4	B1/500		G1/500
BVH (80°-90°)	2.5	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3
2.5°	1983.2	1970.2	1949.3	1941.5	1920.6	1910.2	1894.6	1886.8	1858.1	1829.4	1811.2
5°	2225.5	2194.3	2204.7	2173.4	2105.7	2050.9	2048.3	1988.4	1923.2	1871.1	1800.8
7.5°	2470.5	2444.4	2405.4	2361.1	2285.5	2204.7	2181.2	2123.9	2032.7	1941.5	1847.7
10°	2655.5	2637.3	2603.4	2540.9	2436.6	2345.4	2348.0	2251.6	2155.2	2050.9	1923.2
12.5°	2770.2	2778.0	2728.5	2666.0	2574.7	2460.1	2457.5	2392.3	2282.9	2173.4	2022.3
15°	2884.9	2913.5	2838.0	2765.0	2647.7	2564.3	2580.0	2501.8	2394.9	2269.8	2103.1
17.5°	2903.1	2910.9	2895.3	2788.4	2702.4	2632.1	2634.7	2582.6	2501.8	2366.3	2222.9
20°	2871.8	2866.6	2848.4	2770.2	2712.9	2671.2	2673.8	2660.7	2616.4	2507.0	2311.5
22.5°	2780.6	2780.6	2757.2	2705.0	2679.0	2718.1	2686.8	2736.3	2689.4	2624.3	2462.7
25°	2707.7	2736.3	2723.3	2689.4	2699.8	2752.0	2767.6	2814.5	2806.7	2725.9	2566.9
27.5°	2785.8	2752.0	2759.8	2720.7	2759.8	2838.0	2845.8	2879.7	2877.0	2811.9	2660.7
30°	2838.0	2869.2	2809.3	2723.3	2765.0	2897.9	2892.7	2937.0	2957.8	2879.7	2749.3
32.5°	3004.7	2978.7	2929.2	2814.5	2819.7	2895.3	2918.7	2976.1	2989.1	2942.2	2835.3
35°	3346.1	3307.0	3090.7	2918.7	2892.7	2929.2	2944.8	3056.9	3080.3	3028.2	2926.6
37.5°	3872.5	3783.9	3523.3	3142.9	3025.6	3017.8	3017.8	3166.3	3254.9	3135.0	3062.1
40°	4625.7	4500.6	4219.1	3557.2	3200.2	3231.5	3262.7	3343.5	3333.1	3254.9	3239.3
42.5°	5584.7	5488.3	5183.4	4253.0	3533.8	3377.4	3351.3	3460.8	3625.0	3593.7	3583.3
45°	6384.7	6390.0	6194.5	5206.8	4109.7	3713.6	3731.8	3815.2	4091.4	4068.0	4065.4
47.5°	6968.5	6895.5	6866.9	6126.8	4948.8	4352.1	4326.0	4383.3	4743.0	4891.5	4959.3
50°	7500.1	7450.6	7382.9	7020.6	5957.4	5152.1	5126.0	5131.3	5681.1	5889.6	6056.4
52.5°	8159.4	8222.0	7997.9	7776.4	7263.0	6191.9	6163.2	6061.6	6744.4	7031.0	7229.1
55°	8972.5	8855.3	8602.5	8717.1	8511.3	7315.1	7263.0	7143.1	7956.2	8076.1	8284.5
57.5°	9152.3	9063.7	9324.3	9730.9	9928.9	8633.7	8612.9	8396.6	8975.1	8865.7	9454.6
60°	9600.6	9624.0	9986.3	10794.1	11138.1	10155.7	10054.0	9673.5	9962.8	9983.7	10611.7
62.5°	10061.8	10007.1	10817.6	11594.2	12123.2	11596.8	11562.9	10807.2	11135.5	10869.7	11701.0
65°	9723.1	9806.4	10966.1	12266.5	13400.1	13006.6	12978.0	11899.1	12078.9	11747.9	12144.0
67.5°	8519.1	8349.7	9973.2	11959.0	14056.9	14484.3	14453.0	13090.0	12610.5	11742.7	11224.1
70°	6244.0	6098.1	7421.9	10127.0	13116.1	15240.0	15365.1	13918.7	12394.2	10648.2	8659.8
72.5°	3059.5	3062.1	4159.2	6866.9	10377.2	13890.1	13952.6	12761.7	10648.2	7849.3	4904.5
75°	904.3	914.7	1540.2	3367.0	6707.9	10549.2	10619.5	9686.6	7380.2	4055.0	1673.1
77.5°	331.0	331.0	510.8	1263.9	3346.1	6658.4	6653.2	5946.9	3737.0	1373.4	390.9
80°	172.0	179.8	265.8	516.0	1448.9	3468.6	3598.9	2910.9	1420.3	578.5	114.7
82.5°	70.4	78.2	145.9	265.8	695.8	1217.0	1331.7	1141.4	617.6	403.9	52.1
85°	20.8	23.5	70.4	148.5	273.6	304.9	338.8	383.1	388.3	312.7	23.5
87.5°	2.6	2.6	28.7	49.5	59.9	65.2	75.6	75.6	198.1	218.9	13.0
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°	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3
2.5°	1790.3	1777.3	1756.5	1709.5	1699.1	1665.2	1662.6	1631.4	1641.8	1620.9	1613.1
5°	1777.3	1748.6	1691.3	1654.8	1618.3	1594.9	1579.2	1566.2	1563.6	1553.2	1548.0
7.5°	1800.8	1761.7	1673.1	1615.7	1553.2	1532.3	1498.5	1495.9	1477.6	1459.4	1459.4
10°	1878.9	1808.6	1712.2	1615.7	1534.9	1467.2	1389.0	1331.7	1310.8	1263.9	1269.1
12.5°	1941.5	1878.9	1738.2	1639.2	1516.7	1362.9	1191.0	1058.0	995.5	935.6	959.0
15°	2030.1	1938.9	1787.7	1644.4	1446.3	1180.5	899.1	750.5	693.2	680.2	677.6
17.5°	2126.5	2030.1	1850.3	1631.4	1303.0	912.1	661.9	575.9	586.4	602.0	599.4
20°	2233.4	2116.1	1897.2	1587.1	1076.3	661.9	542.1	539.4	555.1	578.5	583.7
22.5°	2345.4	2243.8	1954.5	1454.2	802.7	531.6	521.2	521.2	531.6	560.3	555.1
25°	2470.5	2335.0	1983.2	1248.3	575.9	489.9	495.1	505.6	510.8	534.2	536.8
27.5°	2566.9	2436.6	1991.0	1000.7	469.1	453.4	466.5	479.5	487.3	505.6	513.4
30°	2655.5	2564.3	1949.3	745.3	430.0	422.2	427.4	445.6	461.3	476.9	476.9
32.5°	2767.6	2637.3	1852.9	529.0	406.5	393.5	390.9	398.7	417.0	435.2	435.2
35°	2882.3	2759.8	1699.1	424.8	385.7	367.4	357.0	349.2	357.0	370.1	380.5
37.5°	3049.0	2944.8	1506.3	390.9	370.1	344.0	323.1	304.9	291.9	289.3	297.1
40°	3286.2	3153.3	1258.7	367.4	351.8	320.5	289.3	258.0	229.3	211.1	213.7
42.5°	3645.8	3460.8	990.3	354.4	338.8	294.5	250.2	205.9	169.4	151.1	151.1
45°	4159.2	3867.3	727.1	341.4	323.1	263.2	205.9	153.8	117.3	106.8	109.5
47.5°	4933.2	4357.3	521.2	320.5	302.3	229.3	161.6	109.5	86.0	80.8	83.4
50°	5944.3	4938.4	406.5	297.1	276.2	192.8	119.9	80.8	67.8	65.2	67.8
52.5°	7005.0	5524.8	357.0	276.2	237.1	153.8	88.6	65.2	57.3	54.7	57.3
55°	7911.9	5902.6	310.1	245.0	190.2	114.7	70.4	57.3	49.5	41.7	41.7
57.5°	8829.2	6092.9	245.0	203.3	140.7	86.0	59.9	49.5	41.7	33.9	31.3
60°	9574.5	6228.4	174.6	151.1	99.0	67.8	52.1	44.3	33.9	26.1	23.5
62.5°	10064.4	5840.1	127.7	114.7	73.0	57.3	44.3	36.5	26.1	18.2	18.2
65°	9822.1	5303.2	99.0	80.8	54.7	44.3	36.5	26.1	18.2	10.4	7.8
67.5°	8813.6	4320.8	80.8	59.9	41.7	33.9	28.7	20.8	10.4	2.6	2.6
70°	6575.0	3166.3	65.2	44.3	33.9	26.1	20.8	13.0	5.2	2.6	0.0
72.5°	3596.3	1733.0	52.1	36.5	26.1	20.8	15.6	10.4	5.2	0.0	0.0
75°	1188.3	461.3	39.1	26.1	15.6	13.0	10.4	7.8	2.6	0.0	0.0
77.5°	286.7	119.9	31.3	23.5	13.0	7.8	5.2	2.6	2.6	0.0	0.0
80°	88.6	49.5	23.5	15.6	10.4	7.8	2.6	0.0	0.0	0.0	0.0
82.5°	36.5	23.5	10.4	10.4	7.8	2.6	0.0	0.0	0.0	0.0	0.0
85°	18.2	13.0	7.8	5.2	5.2	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	5.2	2.6	2.6	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)