

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: P483619

Luminaire Tested: **IFLD-S-SA3D-740-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483619
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-740-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

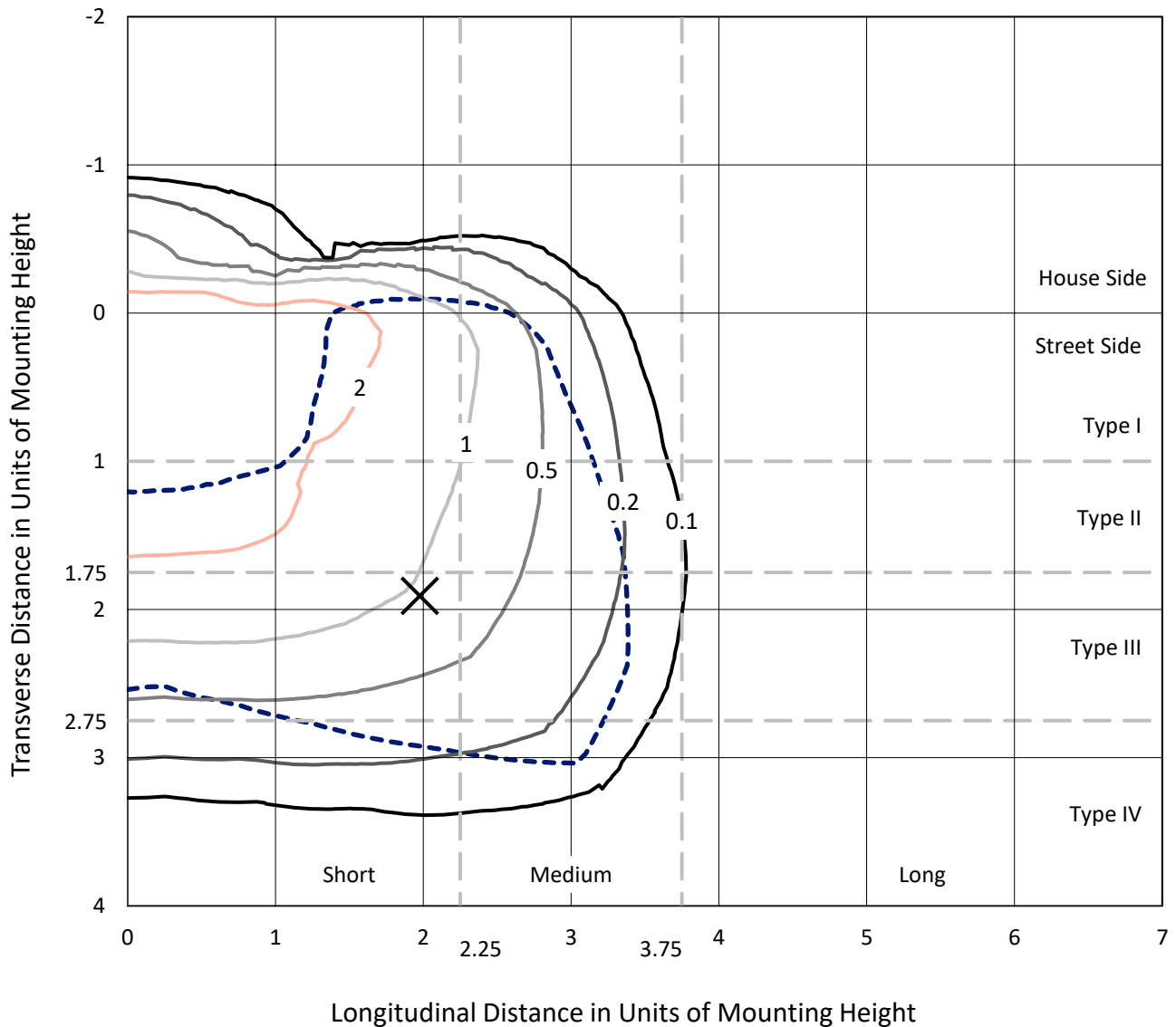
Lumens per Lamp: N/A
Luminaire Lumens: 17196.8 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 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

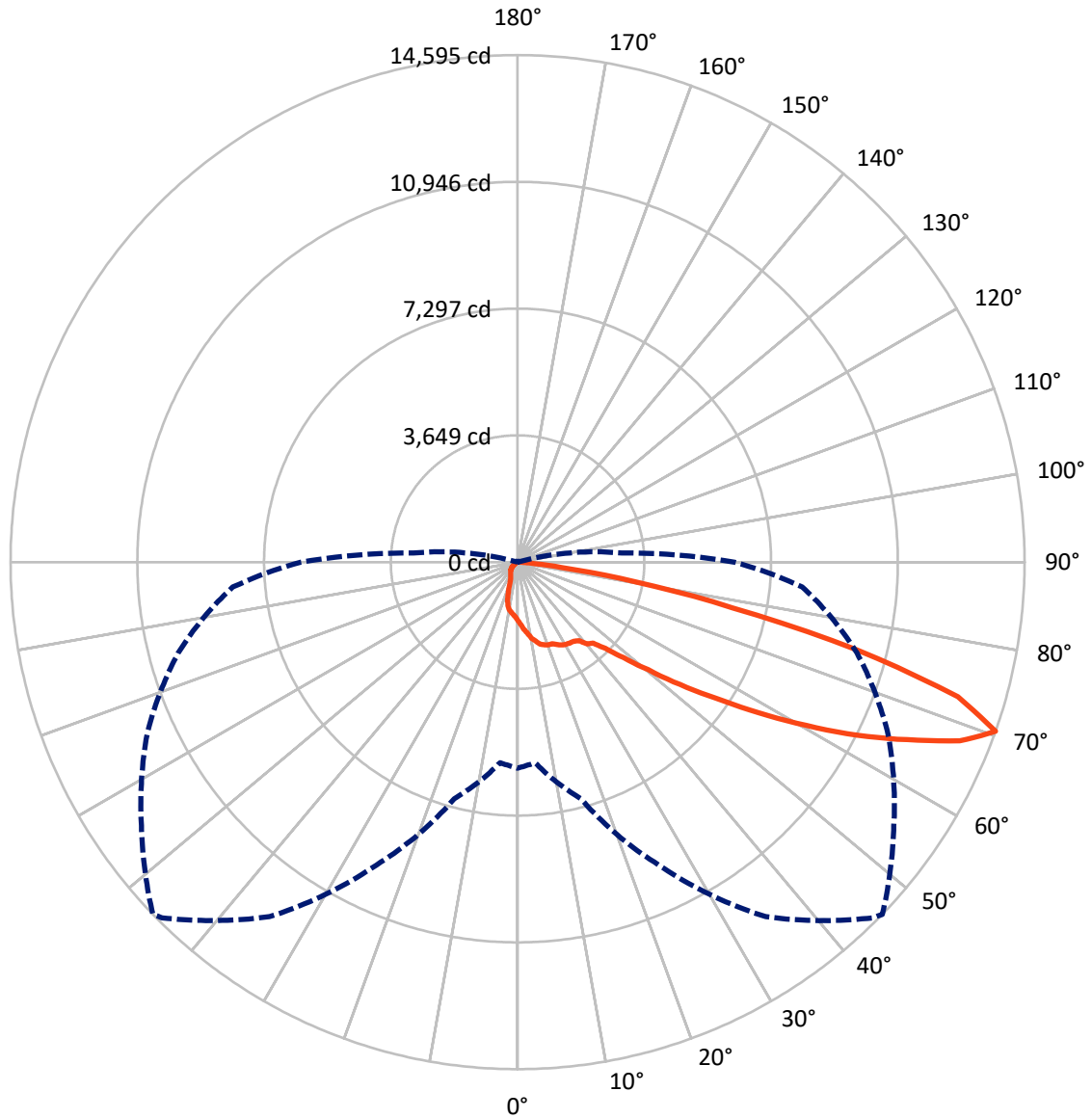
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	1711.1	0.0	1711.1
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	15485.6	0.0	15485.6
	% Fixture	90.0	0.0	90.0
Total	Lumens	17196.8	0.0	17196.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	1.0
10°-20°	508.3	3.0
20°-30°	814.3	4.7
30°-40°	1162.2	6.8
40°-50°	2006.9	11.7
50°-60°	3842.4	22.3
60°-70°	5689.9	33.1
70°-80°	2818.2	16.4
80°-90°	186.2	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°	17196.8	100.0
0°-180°	17196.8	100.0

Coefficient of Utilization



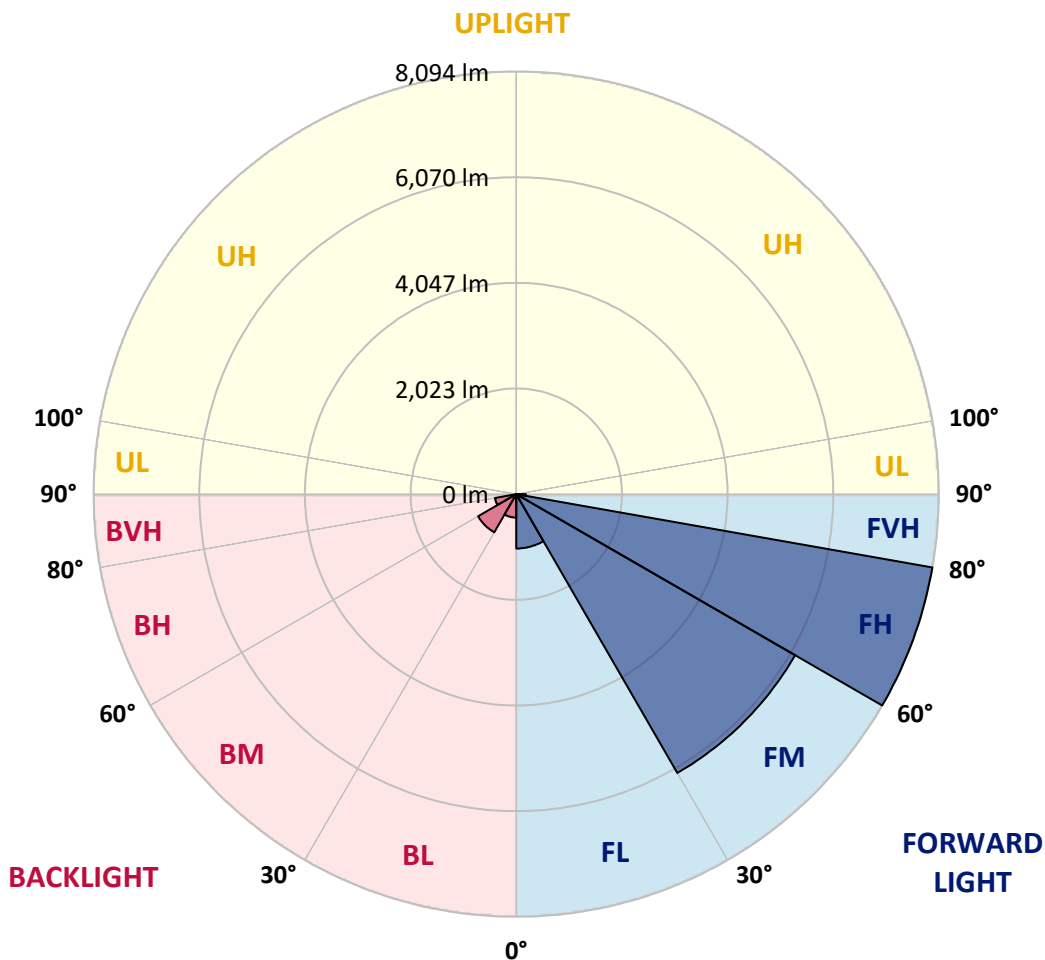
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1041.4	6.1			
FM (30°-60°)	6166.7	35.9			
FH (60°-80°)	8093.7	47.1			G4/12000
FVH (80°-90°)	183.9	1.1			G2/225
BL (0°-30°)	449.5	2.6	B1/500		
BM (30°-60°)	844.8	4.9	B1/1000		
BH (60°-80°)	414.4	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°	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2
2.5°	1883.7	1871.4	1851.6	1844.1	1824.3	1814.4	1799.6	1792.1	1764.9	1737.7	1720.4
5°	2113.9	2084.2	2094.1	2064.4	2000.1	1948.1	1945.6	1888.7	1826.8	1777.3	1710.5
7.5°	2346.6	2321.9	2284.7	2242.7	2170.9	2094.1	2071.9	2017.4	1930.8	1844.1	1755.0
10°	2522.4	2505.0	2472.9	2413.5	2314.4	2227.8	2230.3	2138.7	2047.1	1948.1	1826.8
12.5°	2631.3	2638.7	2591.7	2532.3	2445.6	2336.7	2334.2	2272.4	2168.4	2064.4	1920.9
15°	2740.2	2767.4	2695.6	2626.3	2514.9	2435.7	2450.6	2376.3	2274.8	2156.0	1997.6
17.5°	2757.5	2765.0	2750.1	2648.6	2566.9	2500.1	2502.6	2453.1	2376.3	2247.6	2111.5
20°	2727.8	2722.9	2705.6	2631.3	2576.8	2537.2	2539.7	2527.3	2485.2	2381.3	2195.6
22.5°	2641.2	2641.2	2618.9	2569.4	2544.7	2581.8	2552.1	2599.1	2554.6	2492.7	2339.2
25°	2571.9	2599.1	2586.7	2554.6	2564.5	2614.0	2628.8	2673.4	2665.9	2589.2	2438.2
27.5°	2646.1	2614.0	2621.4	2584.3	2621.4	2695.6	2703.1	2735.3	2732.8	2670.9	2527.3
30°	2695.6	2725.4	2668.4	2586.7	2626.3	2752.6	2747.6	2789.7	2809.5	2735.3	2611.5
32.5°	2854.1	2829.3	2782.3	2673.4	2678.3	2750.1	2772.4	2826.8	2839.2	2794.7	2693.2
35°	3178.3	3141.2	2935.8	2772.4	2747.6	2782.3	2797.1	2903.6	2925.9	2876.3	2779.8
37.5°	3678.4	3594.2	3346.7	2985.3	2873.9	2866.4	2866.4	3007.5	3091.7	2977.8	2908.5
40°	4393.7	4274.9	4007.6	3378.8	3039.7	3069.4	3099.1	3175.9	3166.0	3091.7	3076.9
42.5°	5304.7	5213.1	4923.5	4039.8	3356.6	3208.0	3183.3	3287.3	3443.2	3413.5	3403.6
45°	6064.6	6069.5	5883.9	4945.7	3903.6	3527.4	3544.7	3623.9	3886.3	3864.0	3861.5
47.5°	6619.1	6549.8	6522.5	5819.5	4700.7	4133.8	4109.1	4163.5	4505.1	4646.2	4710.6
50°	7124.0	7077.0	7012.6	6668.6	5658.6	4893.8	4869.0	4874.0	5396.3	5594.3	5752.7
52.5°	7750.3	7809.7	7596.8	7386.4	6898.8	5881.4	5854.2	5757.7	6406.2	6678.5	6866.6
55°	8522.6	8411.2	8171.1	8280.0	8084.5	6948.3	6898.8	6784.9	7557.2	7671.1	7869.1
57.5°	8693.4	8609.2	8856.8	9242.9	9431.1	8200.8	8181.0	7975.6	8525.1	8421.1	8980.5
60°	9119.2	9141.4	9485.5	10252.9	10579.6	9646.4	9549.9	9188.5	9463.2	9483.0	10079.6
62.5°	9557.3	9505.3	10275.2	11012.8	11515.3	11015.3	10983.1	10265.3	10577.1	10324.7	11114.3
65°	9235.5	9314.7	10416.2	11651.4	12728.2	12354.4	12327.2	11302.4	11473.2	11158.9	11535.1
67.5°	8091.9	7931.0	9473.1	11359.4	13352.0	13758.0	13728.3	12433.7	11978.2	11153.9	10661.3
70°	5930.9	5792.3	7049.8	9619.2	12458.4	14475.8	14594.6	13220.8	11772.7	10114.3	8225.6
72.5°	2906.1	2908.5	3950.6	6522.5	9856.8	13193.6	13253.0	12121.8	10114.3	7455.7	4658.6
75°	858.9	868.8	1462.9	3198.1	6371.5	10020.2	10087.0	9200.9	7010.2	3851.6	1589.2
77.5°	314.4	314.4	485.2	1200.5	3178.3	6324.5	6319.6	5648.7	3549.6	1304.5	371.3
80°	163.4	170.8	252.5	490.1	1376.3	3294.7	3418.5	2765.0	1349.1	549.5	108.9
82.5°	66.8	74.3	138.6	252.5	660.9	1156.0	1264.9	1084.2	586.7	383.7	49.5
85°	19.8	22.3	66.8	141.1	259.9	289.6	321.8	363.9	368.8	297.0	22.3
87.5°	2.5	2.5	27.2	47.0	56.9	61.9	71.8	71.8	188.1	207.9	12.4
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°	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2	1688.2
2.5°	1700.6	1688.2	1668.4	1623.8	1613.9	1581.7	1579.3	1549.6	1559.5	1539.7	1532.2
5°	1688.2	1661.0	1606.5	1571.8	1537.2	1514.9	1500.1	1487.7	1485.2	1475.3	1470.4
7.5°	1710.5	1673.3	1589.2	1534.7	1475.3	1455.5	1423.3	1420.8	1403.5	1386.2	1386.2
10°	1784.7	1717.9	1626.3	1534.7	1458.0	1393.6	1319.4	1264.9	1245.1	1200.5	1205.5
12.5°	1844.1	1784.7	1651.1	1557.0	1440.7	1294.6	1131.2	1005.0	945.6	888.6	910.9
15°	1928.3	1841.7	1698.1	1561.9	1373.8	1121.3	854.0	712.9	658.4	646.1	643.6
17.5°	2019.9	1928.3	1757.5	1549.6	1237.7	866.4	628.7	547.1	557.0	571.8	569.3
20°	2121.4	2010.0	1802.1	1507.5	1022.3	628.7	514.9	512.4	527.2	549.5	554.5
22.5°	2227.8	2131.3	1856.5	1381.2	762.4	505.0	495.1	495.1	505.0	532.2	527.2
25°	2346.6	2217.9	1883.7	1185.7	547.1	465.4	470.3	480.2	485.2	507.4	509.9
27.5°	2438.2	2314.4	1891.2	950.5	445.6	430.7	443.1	455.5	462.9	480.2	487.6
30°	2522.4	2435.7	1851.6	707.9	408.4	401.0	406.0	423.3	438.1	453.0	453.0
32.5°	2628.8	2505.0	1760.0	502.5	386.2	373.8	371.3	378.7	396.1	413.4	413.4
35°	2737.7	2621.4	1613.9	403.5	366.4	349.0	339.1	331.7	339.1	351.5	361.4
37.5°	2896.2	2797.1	1430.7	371.3	351.5	326.7	306.9	289.6	277.2	274.8	282.2
40°	3121.4	2995.2	1195.6	349.0	334.2	304.5	274.8	245.1	217.8	200.5	203.0
42.5°	3463.0	3287.3	940.6	336.6	321.8	279.7	237.6	195.6	160.9	143.6	143.6
45°	3950.6	3673.4	690.6	324.3	306.9	250.0	195.6	146.0	111.4	101.5	104.0
47.5°	4685.8	4138.8	495.1	304.5	287.1	217.8	153.5	104.0	81.7	76.7	79.2
50°	5646.3	4690.8	386.2	282.2	262.4	183.2	113.9	76.7	64.4	61.9	64.4
52.5°	6653.7	5247.7	339.1	262.4	225.3	146.0	84.2	61.9	54.5	52.0	54.5
55°	7515.1	5606.7	294.6	232.7	180.7	108.9	66.8	54.5	47.0	39.6	39.6
57.5°	8386.5	5787.4	232.7	193.1	133.7	81.7	56.9	47.0	39.6	32.2	29.7
60°	9094.4	5916.1	165.8	143.6	94.1	64.4	49.5	42.1	32.2	24.8	22.3
62.5°	9559.8	5547.2	121.3	108.9	69.3	54.5	42.1	34.7	24.8	17.3	17.3
65°	9329.6	5037.3	94.1	76.7	52.0	42.1	34.7	24.8	17.3	9.9	7.4
67.5°	8371.6	4104.1	76.7	56.9	39.6	32.2	27.2	19.8	9.9	2.5	2.5
70°	6245.3	3007.5	61.9	42.1	32.2	24.8	19.8	12.4	5.0	2.5	0.0
72.5°	3416.0	1646.1	49.5	34.7	24.8	19.8	14.9	9.9	5.0	0.0	0.0
75°	1128.8	438.1	37.1	24.8	14.9	12.4	9.9	7.4	2.5	0.0	0.0
77.5°	272.3	113.9	29.7	22.3	12.4	7.4	5.0	2.5	2.5	0.0	0.0
80°	84.2	47.0	22.3	14.9	9.9	7.4	2.5	0.0	0.0	0.0	0.0
82.5°	34.7	22.3	9.9	9.9	7.4	2.5	0.0	0.0	0.0	0.0	0.0
85°	17.3	12.4	7.4	5.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	12.4	5.0	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)