

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: P483490

Luminaire Tested: **IFLD-L-SA8A-722-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483490
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-722-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

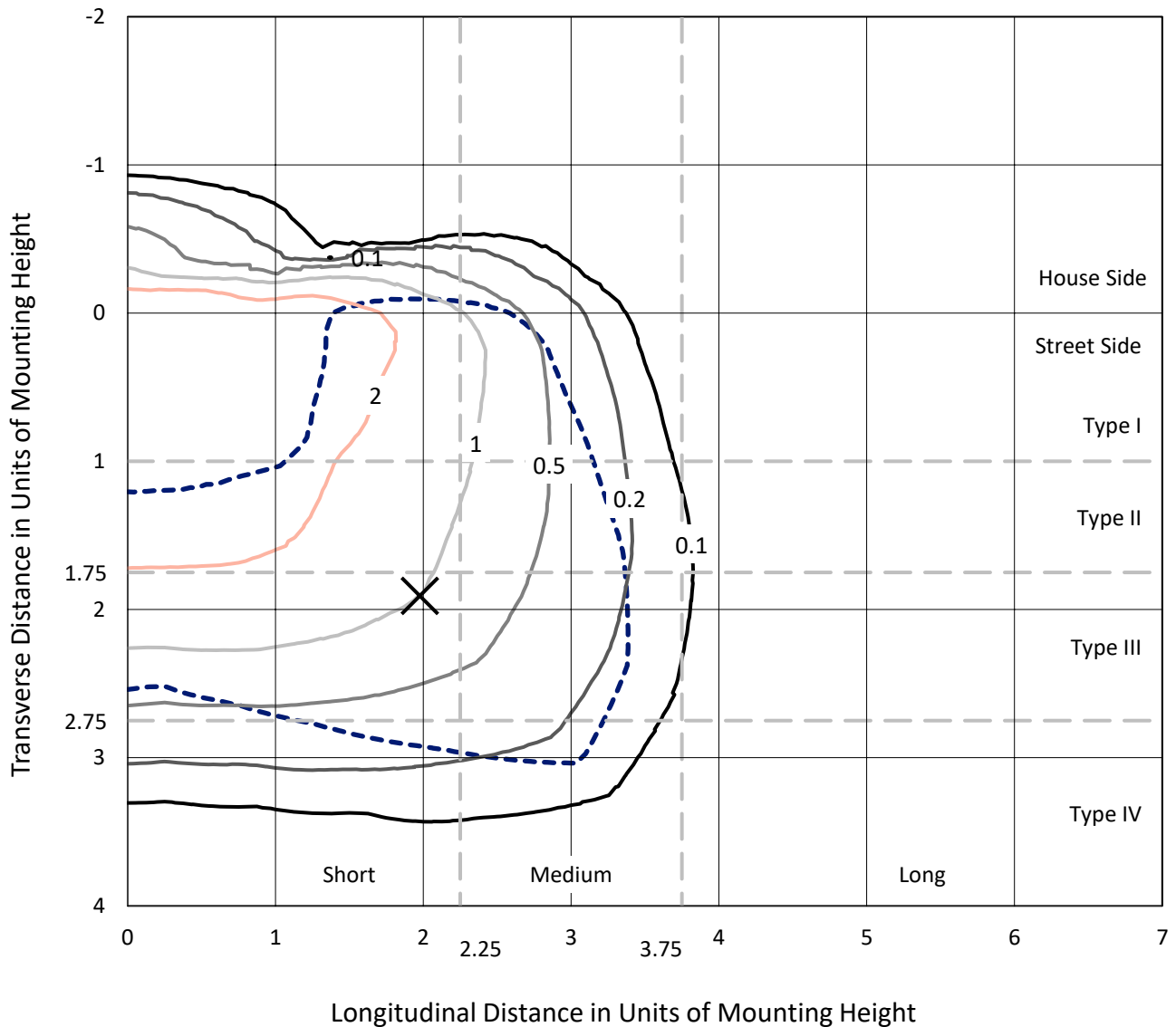
Lumens per Lamp: N/A
Luminaire Lumens: 18617.9 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 247.8
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

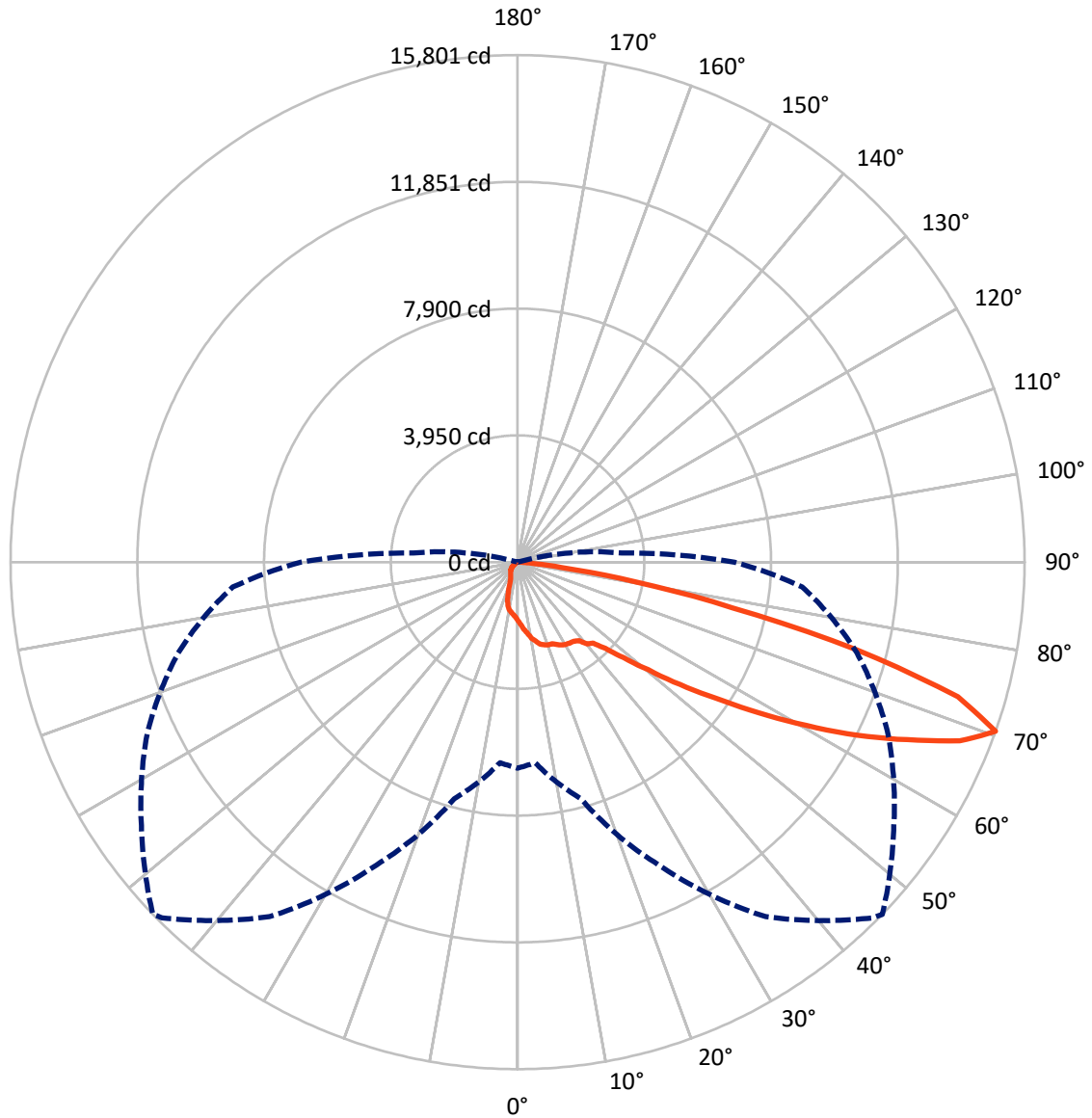
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	1852.5	0.0	1852.5
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	16765.4	0.0	16765.4
	% Fixture	90.0	0.0	90.0
Total	Lumens	18617.9	0.0	18617.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.2	1.0
10°-20°	550.4	3.0
20°-30°	881.6	4.7
30°-40°	1258.3	6.8
40°-50°	2172.7	11.7
50°-60°	4159.9	22.3
60°-70°	6160.2	33.1
70°-80°	3051.1	16.4
80°-90°	201.6	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°	18617.9	100.0
0°-180°	18617.9	100.0

Coefficient of Utilization

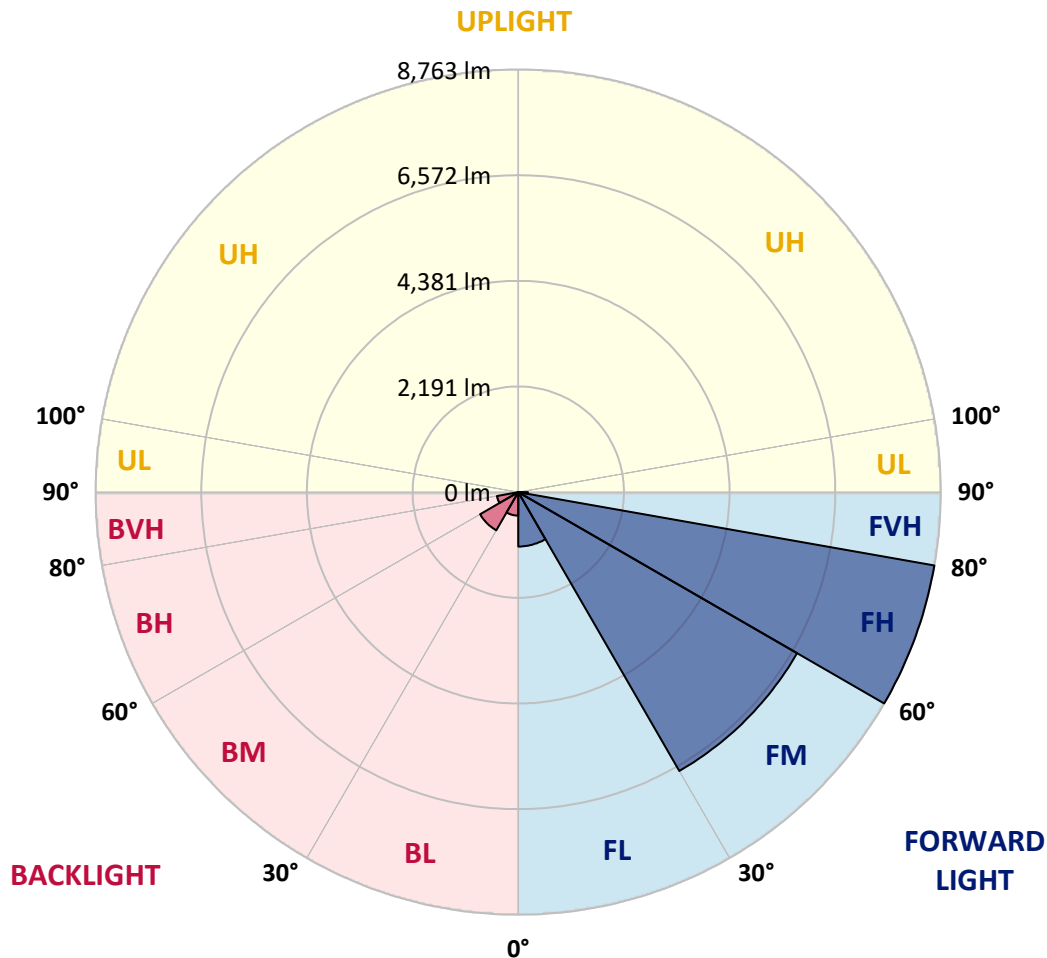


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1127.4	6.1			
FM (30°-60°)	6676.3	35.9			
FH (60°-80°)	8762.5	47.1			G4/12000
FVH (80°-90°)	199.0	1.1			G2/225
BL (0°-30°)	486.7	2.6	B1/500		
BM (30°-60°)	914.6	4.9	B1/1000		
BH (60°-80°)	448.7	2.4	B1/500		G1/500
BVH (80°-90°)	2.6	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	2039.4	2026.0	2004.6	1996.5	1975.1	1964.4	1948.3	1940.3	1910.8	1881.3	1862.5
5°	2288.6	2256.5	2267.2	2235.0	2165.4	2109.1	2106.4	2044.8	1977.8	1924.2	1851.8
7.5°	2540.6	2513.8	2473.6	2428.0	2350.3	2267.2	2243.1	2184.1	2090.3	1996.5	1900.1
10°	2730.8	2712.1	2677.2	2612.9	2505.7	2411.9	2414.6	2315.4	2216.3	2109.1	1977.8
12.5°	2848.7	2856.8	2805.9	2741.5	2647.8	2529.8	2527.2	2460.2	2347.6	2235.0	2079.6
15°	2966.7	2996.1	2918.4	2843.4	2722.8	2637.0	2653.1	2572.7	2462.8	2334.2	2162.7
17.5°	2985.4	2993.5	2977.4	2867.5	2779.1	2706.7	2709.4	2655.8	2572.7	2433.4	2286.0
20°	2953.3	2947.9	2929.1	2848.7	2789.8	2746.9	2749.6	2736.2	2690.6	2578.1	2377.1
22.5°	2859.5	2859.5	2835.3	2781.7	2754.9	2795.1	2763.0	2813.9	2765.7	2698.7	2532.5
25°	2784.4	2813.9	2800.5	2765.7	2776.4	2830.0	2846.1	2894.3	2886.3	2803.2	2639.7
27.5°	2864.8	2830.0	2838.0	2797.8	2838.0	2918.4	2926.5	2961.3	2958.6	2891.6	2736.2
30°	2918.4	2950.6	2888.9	2800.5	2843.4	2980.1	2974.7	3020.3	3041.7	2961.3	2827.3
32.5°	3089.9	3063.1	3012.2	2894.3	2899.7	2977.4	3001.5	3060.5	3073.9	3025.6	2915.7
35°	3441.0	3400.8	3178.4	3001.5	2974.7	3012.2	3028.3	3143.5	3167.7	3114.1	3009.5
37.5°	3982.3	3891.2	3623.2	3232.0	3111.4	3103.3	3103.3	3256.1	3347.2	3223.9	3148.9
40°	4756.8	4628.2	4338.8	3658.1	3290.9	3323.1	3355.2	3438.3	3427.6	3347.2	3331.1
42.5°	5743.0	5643.9	5330.3	4373.6	3634.0	3473.2	3446.4	3558.9	3727.8	3695.6	3684.9
45°	6565.8	6571.1	6370.1	5354.5	4226.2	3818.9	3837.6	3923.4	4207.5	4183.3	4180.7
47.5°	7166.1	7091.0	7061.6	6300.5	5089.2	4475.5	4448.7	4507.6	4877.4	5030.2	5099.9
50°	7712.8	7661.9	7592.2	7219.7	6126.3	5298.2	5271.4	5276.7	5842.2	6056.6	6228.1
52.5°	8390.8	8455.1	8224.6	7996.9	7468.9	6367.5	6338.0	6233.5	6935.6	7230.4	7434.1
55°	9226.9	9106.3	8846.4	8964.3	8752.6	7522.5	7468.9	7345.6	8181.8	8305.0	8519.4
57.5°	9411.8	9320.7	9588.7	10006.8	10210.5	8878.5	8857.1	8634.7	9229.6	9117.1	9722.7
60°	9872.8	9896.9	10269.4	11100.2	11453.9	10443.6	10339.1	9947.8	10245.3	10266.7	10912.6
62.5°	10347.1	10290.9	11124.3	11922.9	12466.9	11925.6	11890.8	11113.6	11451.3	11177.9	12032.8
65°	9998.7	10084.5	11277.1	12614.3	13780.1	13375.4	13346.0	12236.5	12421.4	12081.0	12488.4
67.5°	8760.6	8586.4	10256.0	12298.1	14455.4	14894.9	14862.8	13461.2	12968.1	12075.7	11542.4
70°	6421.1	6271.0	7632.4	10414.1	13488.0	15672.1	15800.8	14313.4	12745.7	10950.1	8905.3
72.5°	3146.2	3148.9	4277.1	7061.6	10671.4	14283.9	14348.2	13123.5	10950.1	8071.9	5043.6
75°	929.9	940.6	1583.8	3462.4	6898.1	10848.3	10920.6	9961.2	7589.5	4169.9	1720.5
77.5°	340.3	340.3	525.3	1299.8	3441.0	6847.2	6841.8	6115.6	3843.0	1412.3	402.0
80°	176.9	184.9	273.4	530.6	1490.0	3567.0	3701.0	2993.5	1460.6	594.9	117.9
82.5°	72.4	80.4	150.1	273.4	715.5	1251.5	1369.4	1173.8	635.1	415.4	53.6
85°	21.4	24.1	72.4	152.8	281.4	313.5	348.4	393.9	399.3	321.6	24.1
87.5°	2.7	2.7	29.5	50.9	61.6	67.0	77.7	77.7	203.7	225.1	13.4
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°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	1841.1	1827.7	1806.3	1758.0	1747.3	1712.5	1709.8	1677.6	1688.3	1666.9	1658.9
5°	1827.7	1798.2	1739.3	1701.7	1664.2	1640.1	1624.0	1610.6	1607.9	1597.2	1591.9
7.5°	1851.8	1811.6	1720.5	1661.5	1597.2	1575.8	1540.9	1538.3	1519.5	1500.8	1500.8
10°	1932.2	1859.9	1760.7	1661.5	1578.5	1508.8	1428.4	1369.4	1348.0	1299.8	1305.1
12.5°	1996.5	1932.2	1787.5	1685.7	1559.7	1401.6	1224.7	1088.0	1023.7	962.1	986.2
15°	2087.7	1993.9	1838.4	1691.0	1487.4	1214.0	924.6	771.8	712.9	699.5	696.8
17.5°	2186.8	2087.7	1902.7	1677.6	1340.0	938.0	680.7	592.3	603.0	619.1	616.4
20°	2296.7	2176.1	1951.0	1632.1	1106.8	680.7	557.4	554.7	570.8	594.9	600.3
22.5°	2411.9	2307.4	2009.9	1495.4	825.4	546.7	536.0	536.0	546.7	576.2	570.8
25°	2540.6	2401.2	2039.4	1283.7	592.3	503.8	509.2	519.9	525.3	549.4	552.1
27.5°	2639.7	2505.7	2047.5	1029.1	482.4	466.3	479.7	493.1	501.1	519.9	527.9
30°	2730.8	2637.0	2004.6	766.5	442.2	434.1	439.5	458.3	474.3	490.4	490.4
32.5°	2846.1	2712.1	1905.4	544.0	418.1	404.7	402.0	410.0	428.8	447.5	447.5
35°	2964.0	2838.0	1747.3	436.8	396.6	377.9	367.1	359.1	367.1	380.5	391.3
37.5°	3135.5	3028.3	1549.0	402.0	380.5	353.7	332.3	313.5	300.2	297.5	305.5
40°	3379.4	3242.7	1294.4	377.9	361.8	329.6	297.5	265.3	235.8	217.1	219.8
42.5°	3749.2	3558.9	1018.4	364.5	348.4	302.8	257.3	211.7	174.2	155.4	155.4
45°	4277.1	3977.0	747.7	351.1	332.3	270.7	211.7	158.1	120.6	109.9	112.6
47.5°	5073.1	4480.8	536.0	329.6	310.9	235.8	166.2	112.6	88.4	83.1	85.8
50°	6112.9	5078.4	418.1	305.5	284.1	198.3	123.3	83.1	69.7	67.0	69.7
52.5°	7203.6	5681.4	367.1	284.1	243.9	158.1	91.1	67.0	59.0	56.3	59.0
55°	8136.2	6070.0	318.9	251.9	195.6	117.9	72.4	59.0	50.9	42.9	42.9
57.5°	9079.5	6265.6	251.9	209.0	144.7	88.4	61.6	50.9	42.9	34.8	32.2
60°	9846.0	6405.0	179.6	155.4	101.8	69.7	53.6	45.6	34.8	26.8	24.1
62.5°	10349.8	6005.7	131.3	117.9	75.0	59.0	45.6	37.5	26.8	18.8	18.8
65°	10100.6	5453.6	101.8	83.1	56.3	45.6	37.5	26.8	18.8	10.7	8.0
67.5°	9063.5	4443.3	83.1	61.6	42.9	34.8	29.5	21.4	10.7	2.7	2.7
70°	6761.4	3256.1	67.0	45.6	34.8	26.8	21.4	13.4	5.4	2.7	0.0
72.5°	3698.3	1782.1	53.6	37.5	26.8	21.4	16.1	10.7	5.4	0.0	0.0
75°	1222.0	474.3	40.2	26.8	16.1	13.4	10.7	8.0	2.7	0.0	0.0
77.5°	294.8	123.3	32.2	24.1	13.4	8.0	5.4	2.7	2.7	0.0	0.0
80°	91.1	50.9	24.1	16.1	10.7	8.0	2.7	0.0	0.0	0.0	0.0
82.5°	37.5	24.1	10.7	10.7	8.0	2.7	0.0	0.0	0.0	0.0	0.0
85°	18.8	13.4	8.0	5.4	5.4	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	13.4	5.4	2.7	2.7	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)