

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: P483788

Luminaire Tested: **IFLD-S-SA6B-830-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483788
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-830-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

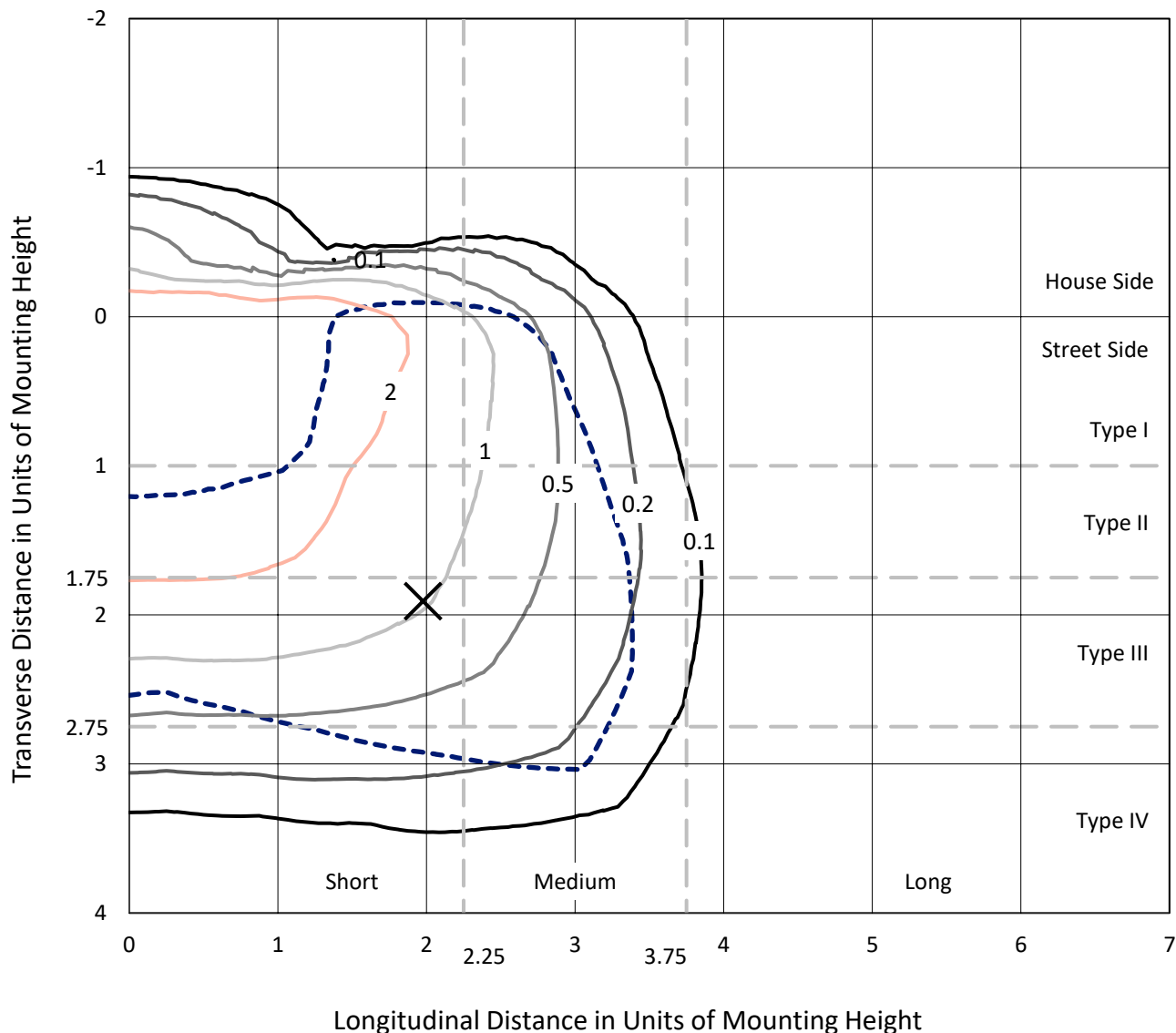
Lumens per Lamp: N/A
Luminaire Lumens: 19570 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

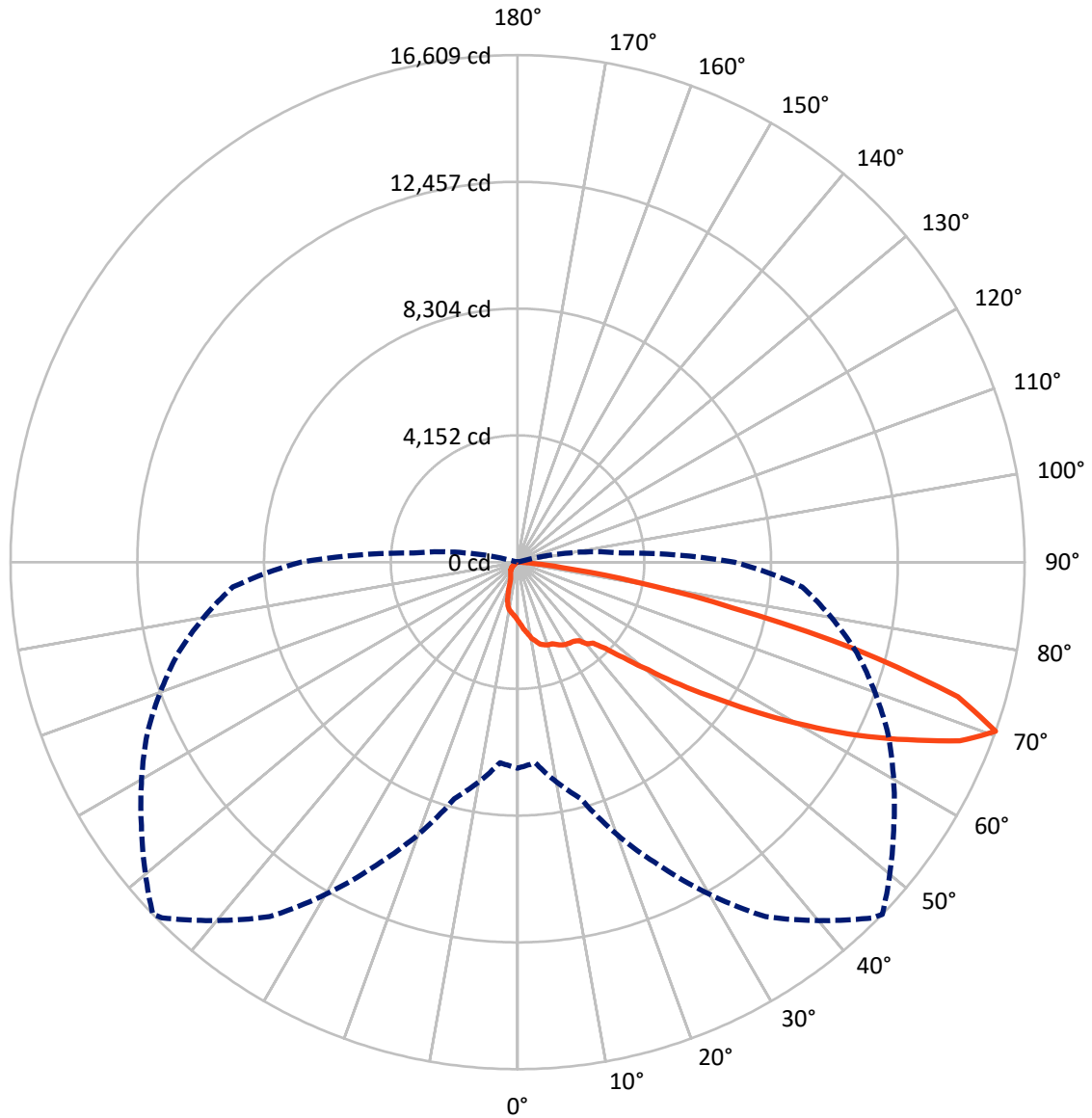
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	1947.3	0.0	1947.3
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	17622.7	0.0	17622.7
	% Fixture	90.0	0.0	90.0
Total	Lumens	19570.0	0.0	19570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.6	1.0
10°-20°	578.5	3.0
20°-30°	926.6	4.7
30°-40°	1322.6	6.8
40°-50°	2283.9	11.7
50°-60°	4372.6	22.3
60°-70°	6475.2	33.1
70°-80°	3207.1	16.4
80°-90°	211.9	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°	19570.0	100.0
0°-180°	19570.0	100.0

Coefficient of Utilization



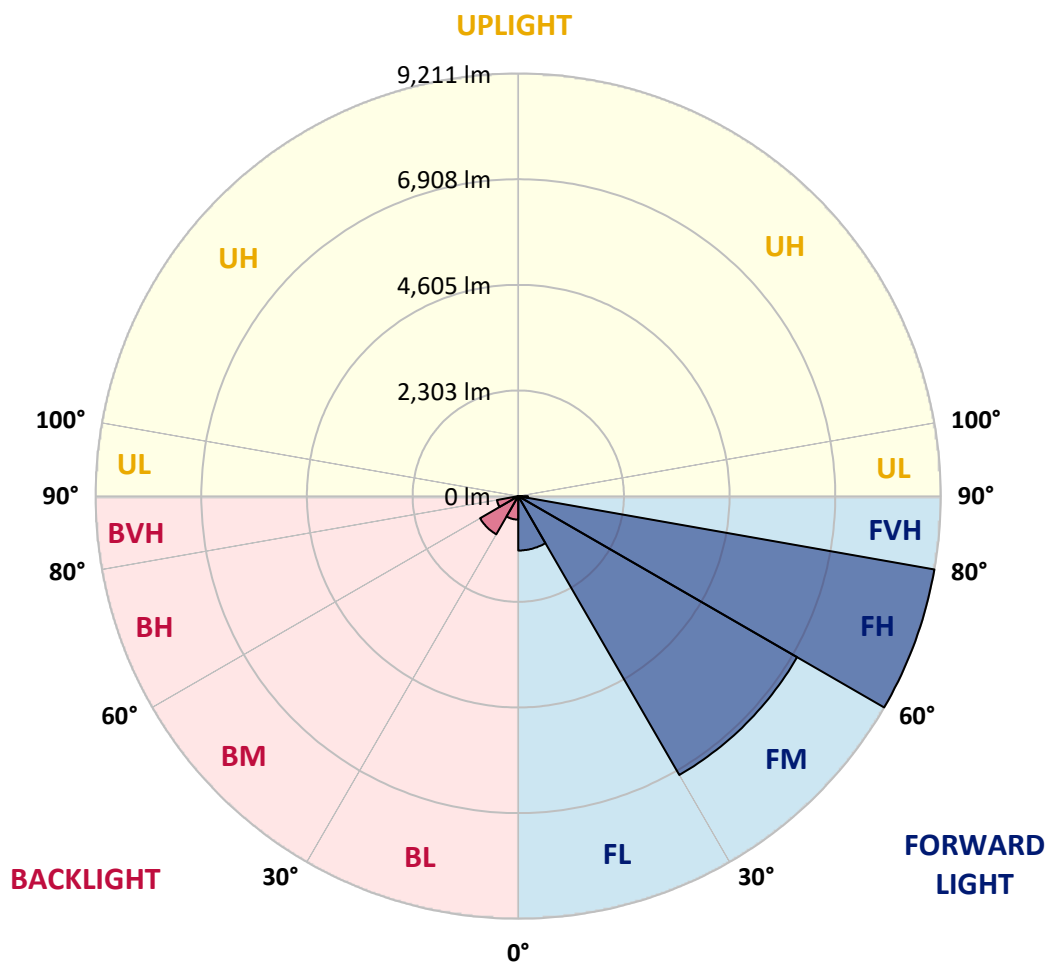
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1185.1	6.1			
FM (30°-60°)	7017.7	35.9			
FH (60°-80°)	9210.6	47.1			G4/12000
FVH (80°-90°)	209.2	1.1			G2/225
BL (0°-30°)	511.6	2.6	B2/1000		
BM (30°-60°)	961.4	4.9	B1/1000		
BH (60°-80°)	471.6	2.4	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1921.2	1921.2	1921.2	1921.2	1921.2	1921.2	1921.2	1921.2	1921.2	1921.2	1921.2
2.5°	2143.7	2129.6	2107.1	2098.6	2076.1	2064.8	2047.9	2039.5	2008.5	1977.5	1957.8
5°	2405.7	2371.9	2383.1	2349.3	2276.1	2216.9	2214.1	2149.3	2078.9	2022.6	1946.5
7.5°	2670.5	2642.3	2600.0	2552.2	2470.5	2383.1	2357.8	2295.8	2197.2	2098.6	1997.2
10°	2870.5	2850.8	2814.1	2746.5	2633.9	2535.3	2538.1	2433.8	2329.6	2216.9	2078.9
12.5°	2994.4	3002.9	2949.4	2881.7	2783.2	2659.2	2656.4	2586.0	2467.7	2349.3	2186.0
15°	3118.4	3149.4	3067.7	2988.8	2862.0	2771.9	2788.8	2704.3	2588.8	2453.6	2273.3
17.5°	3138.1	3146.5	3129.6	3014.1	2921.2	2845.1	2847.9	2791.6	2704.3	2557.8	2402.9
20°	3104.3	3098.6	3078.9	2994.4	2932.4	2887.4	2890.2	2876.1	2828.2	2709.9	2498.6
22.5°	3005.7	3005.7	2980.3	2924.0	2895.8	2938.1	2904.3	2957.8	2907.1	2836.7	2662.0
25°	2926.8	2957.8	2943.7	2907.1	2918.4	2974.7	2991.6	3042.3	3033.9	2946.5	2774.7
27.5°	3011.3	2974.7	2983.2	2940.9	2983.2	3067.7	3076.1	3112.7	3109.9	3039.5	2876.1
30°	3067.7	3101.5	3036.7	2943.7	2988.8	3132.5	3126.8	3174.7	3197.2	3112.7	2971.9
32.5°	3247.9	3219.8	3166.3	3042.3	3047.9	3129.6	3155.0	3217.0	3231.0	3180.3	3064.8
35°	3617.0	3574.7	3340.9	3155.0	3126.8	3166.3	3183.2	3304.3	3329.6	3273.3	3163.4
37.5°	4186.0	4090.2	3808.5	3397.2	3270.5	3262.0	3262.0	3422.6	3518.4	3388.8	3309.9
40°	5000.1	4864.9	4560.6	3845.1	3459.2	3493.0	3526.8	3614.2	3602.9	3518.4	3501.5
42.5°	6036.7	5932.5	5602.9	4597.3	3819.8	3650.8	3622.6	3740.9	3918.4	3884.6	3873.3
45°	6901.5	6907.2	6695.9	5628.3	4442.3	4014.2	4033.9	4124.0	4422.6	4397.3	4394.4
47.5°	7532.5	7453.7	7422.7	6622.7	5349.4	4704.3	4676.1	4738.1	5126.9	5287.4	5360.7
50°	8107.2	8053.7	7980.4	7588.9	6439.6	5569.1	5540.9	5546.6	6141.0	6366.3	6546.6
52.5°	8819.9	8887.5	8645.2	8405.8	7850.8	6693.1	6662.1	6552.2	7290.3	7600.1	7814.2
55°	9698.8	9572.0	9298.8	9422.7	9200.2	7907.2	7850.8	7721.3	8600.2	8729.7	8955.1
57.5°	9893.1	9797.4	10079.1	10518.5	10732.6	9332.6	9310.0	9076.2	9701.6	9583.3	10219.9
60°	10377.7	10403.0	10794.6	11667.8	12039.7	10977.7	10867.8	10456.5	10769.2	10791.7	11470.6
62.5°	10876.3	10817.1	11693.2	12532.6	13104.5	12535.4	12498.8	11681.9	12036.8	11749.5	12648.1
65°	10510.1	10600.2	11853.7	13259.4	14484.8	14059.4	14028.4	12862.2	13056.6	12698.8	13127.0
67.5°	9208.6	9025.5	10780.5	12927.0	15194.6	15656.6	15622.8	14149.6	13631.2	12693.2	12132.6
70°	6749.4	6591.7	8022.7	10946.7	14177.7	16473.5	16608.8	15045.3	13397.4	11510.1	9360.7
72.5°	3307.1	3309.9	4495.9	7422.7	11217.1	15014.4	15082.0	13794.6	11510.1	8484.7	5301.5
75°	977.5	988.8	1664.8	3639.5	7250.8	11403.0	11479.1	10470.6	7977.6	4383.2	1808.5
77.5°	357.8	357.8	552.1	1366.2	3617.0	7197.3	7191.7	6428.3	4039.5	1484.5	422.5
80°	185.9	194.4	287.3	557.8	1566.2	3749.4	3890.2	3146.5	1535.2	625.4	123.9
82.5°	76.1	84.5	157.7	287.3	752.1	1315.5	1439.5	1233.8	667.6	436.6	56.3
85°	22.5	25.4	76.1	160.6	295.8	329.6	366.2	414.1	419.7	338.0	25.4
87.5°	2.8	2.8	31.0	53.5	64.8	70.4	81.7	81.7	214.1	236.6	14.1
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°	1921.2	1921.2	1921.2	1921.2	1921.2	1921.2	1921.2	1921.2	1921.2	1921.2	1921.2
2.5°	1935.2	1921.2	1898.6	1847.9	1836.7	1800.0	1797.2	1763.4	1774.7	1752.1	1743.7
5°	1921.2	1890.2	1828.2	1788.8	1749.3	1724.0	1707.1	1693.0	1690.2	1678.9	1673.3
7.5°	1946.5	1904.3	1808.5	1746.5	1678.9	1656.4	1619.7	1616.9	1597.2	1577.5	1577.5
10°	2031.0	1955.0	1850.7	1746.5	1659.2	1585.9	1501.4	1439.5	1416.9	1366.2	1371.9
12.5°	2098.6	2031.0	1878.9	1771.9	1639.5	1473.3	1287.3	1143.7	1076.1	1011.3	1036.6
15°	2194.4	2095.8	1932.4	1777.5	1563.4	1276.1	971.8	811.3	749.3	735.2	732.4
17.5°	2298.6	2194.4	2000.0	1763.4	1408.5	985.9	715.5	622.5	633.8	650.7	647.9
20°	2414.1	2287.4	2050.7	1715.5	1163.4	715.5	585.9	583.1	600.0	625.4	631.0
22.5°	2535.3	2425.4	2112.7	1571.9	867.6	574.7	563.4	563.4	574.7	605.6	600.0
25°	2670.5	2524.0	2143.7	1349.3	622.5	529.6	535.2	546.5	552.1	577.5	580.3
27.5°	2774.7	2633.9	2152.2	1081.7	507.1	490.1	504.2	518.3	526.8	546.5	554.9
30°	2870.5	2771.9	2107.1	805.6	464.8	456.3	462.0	481.7	498.6	515.5	515.5
32.5°	2991.6	2850.8	2002.9	571.8	439.4	425.4	422.5	431.0	450.7	470.4	470.4
35°	3115.6	2983.2	1836.7	459.2	416.9	397.2	385.9	377.5	385.9	400.0	411.3
37.5°	3295.8	3183.2	1628.2	422.5	400.0	371.8	349.3	329.6	315.5	312.7	321.1
40°	3552.2	3408.5	1360.6	397.2	380.3	346.5	312.7	278.9	247.9	228.2	231.0
42.5°	3940.9	3740.9	1070.4	383.1	366.2	318.3	270.4	222.5	183.1	163.4	163.4
45°	4495.9	4180.4	785.9	369.0	349.3	284.5	222.5	166.2	126.8	115.5	118.3
47.5°	5332.5	4709.9	563.4	346.5	326.8	247.9	174.7	118.3	93.0	87.3	90.1
50°	6425.5	5338.1	439.4	321.1	298.6	208.5	129.6	87.3	73.2	70.4	73.2
52.5°	7572.0	5971.9	385.9	298.6	256.3	166.2	95.8	70.4	62.0	59.2	62.0
55°	8552.3	6380.4	335.2	264.8	205.6	123.9	76.1	62.0	53.5	45.1	45.1
57.5°	9543.8	6586.0	264.8	219.7	152.1	93.0	64.8	53.5	45.1	36.6	33.8
60°	10349.5	6732.5	188.7	163.4	107.0	73.2	56.3	47.9	36.6	28.2	25.4
62.5°	10879.1	6312.8	138.0	123.9	78.9	62.0	47.9	39.4	28.2	19.7	19.7
65°	10617.1	5732.5	107.0	87.3	59.2	47.9	39.4	28.2	19.7	11.3	8.5
67.5°	9526.9	4670.5	87.3	64.8	45.1	36.6	31.0	22.5	11.3	2.8	2.8
70°	7107.2	3422.6	70.4	47.9	36.6	28.2	22.5	14.1	5.6	2.8	0.0
72.5°	3887.4	1873.3	56.3	39.4	28.2	22.5	16.9	11.3	5.6	0.0	0.0
75°	1284.5	498.6	42.3	28.2	16.9	14.1	11.3	8.5	2.8	0.0	0.0
77.5°	309.9	129.6	33.8	25.4	14.1	8.5	5.6	2.8	2.8	0.0	0.0
80°	95.8	53.5	25.4	16.9	11.3	8.5	2.8	0.0	0.0	0.0	0.0
82.5°	39.4	25.4	11.3	11.3	8.5	2.8	0.0	0.0	0.0	0.0	0.0
85°	19.7	14.1	8.5	5.6	5.6	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	14.1	5.6	2.8	2.8	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)