

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: P483209

Luminaire Tested: **IFLD-M-SA4C-735-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483209
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-735-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

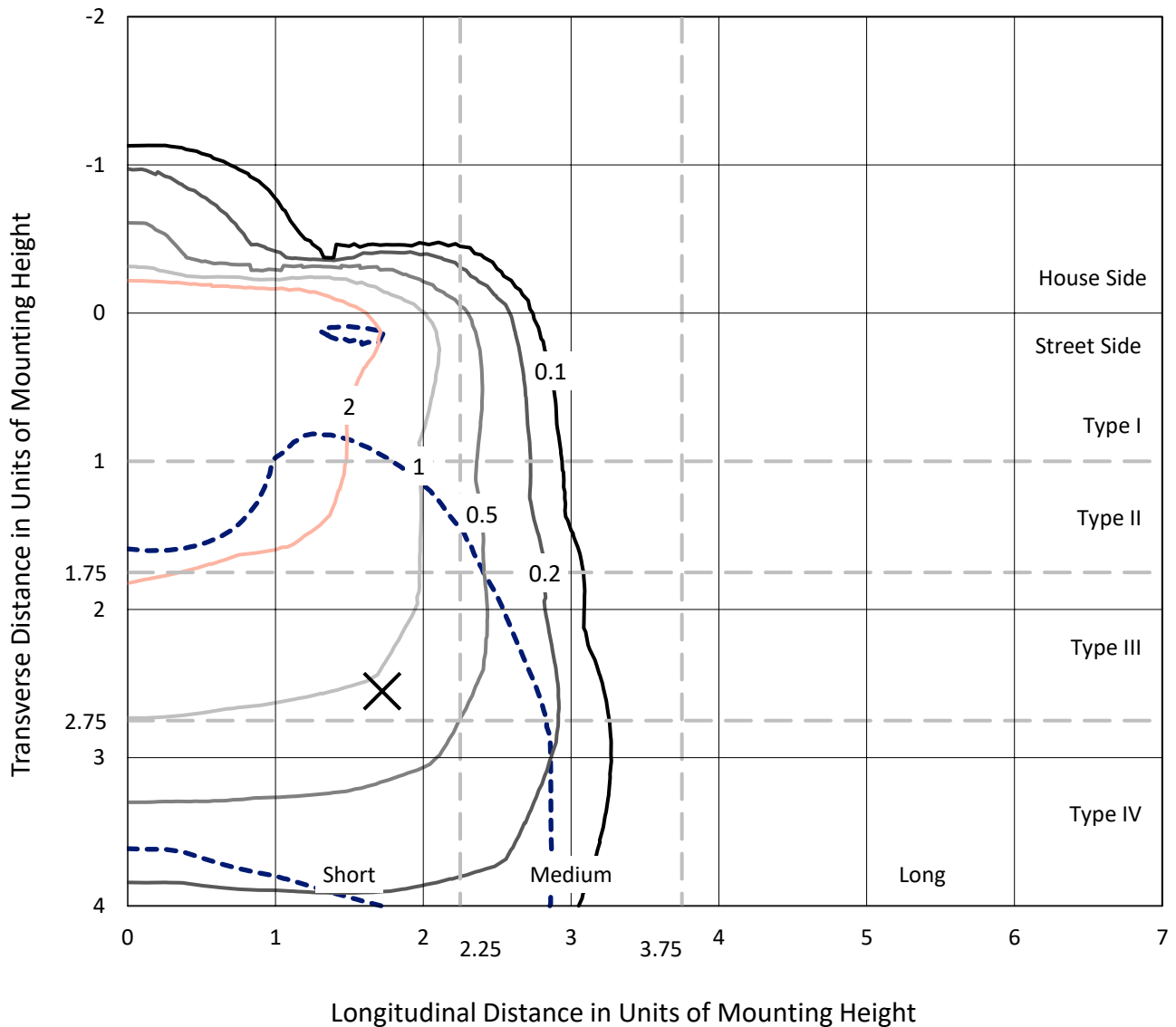
Lumens per Lamp: N/A
Luminaire Lumens: 20276.9 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

REPORT NUMBER: P483209
 CATALOG NUMBER: IFLD-M-SA4C-735-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

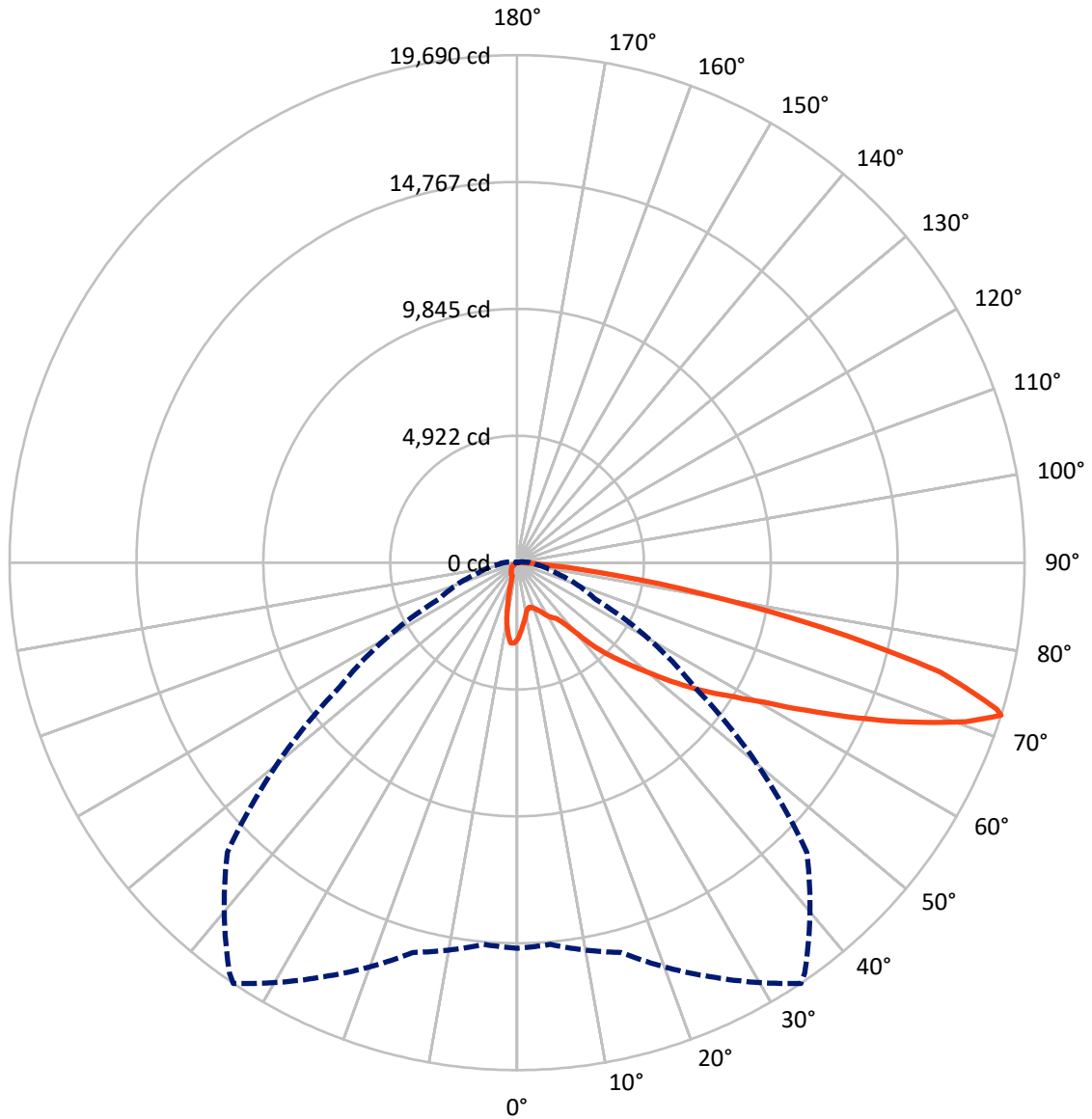
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P483209
CATALOG NUMBER: IFLD-M-SA4C-735-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P483209
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2075.9	0.0	2075.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	18201.1	0.0	18201.1
	% Fixture	89.8	0.0	89.8
Total	Lumens	20276.9	0.0	20276.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.5	1.3
10°-20°	583.0	2.9
20°-30°	880.0	4.3
30°-40°	1428.1	7.0
40°-50°	2685.4	13.2
50°-60°	4390.8	21.7
60°-70°	5836.9	28.8
70°-80°	3908.9	19.3
80°-90°	306.3	1.5
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°	20276.9	100.0
0°-180°	20276.9	100.0



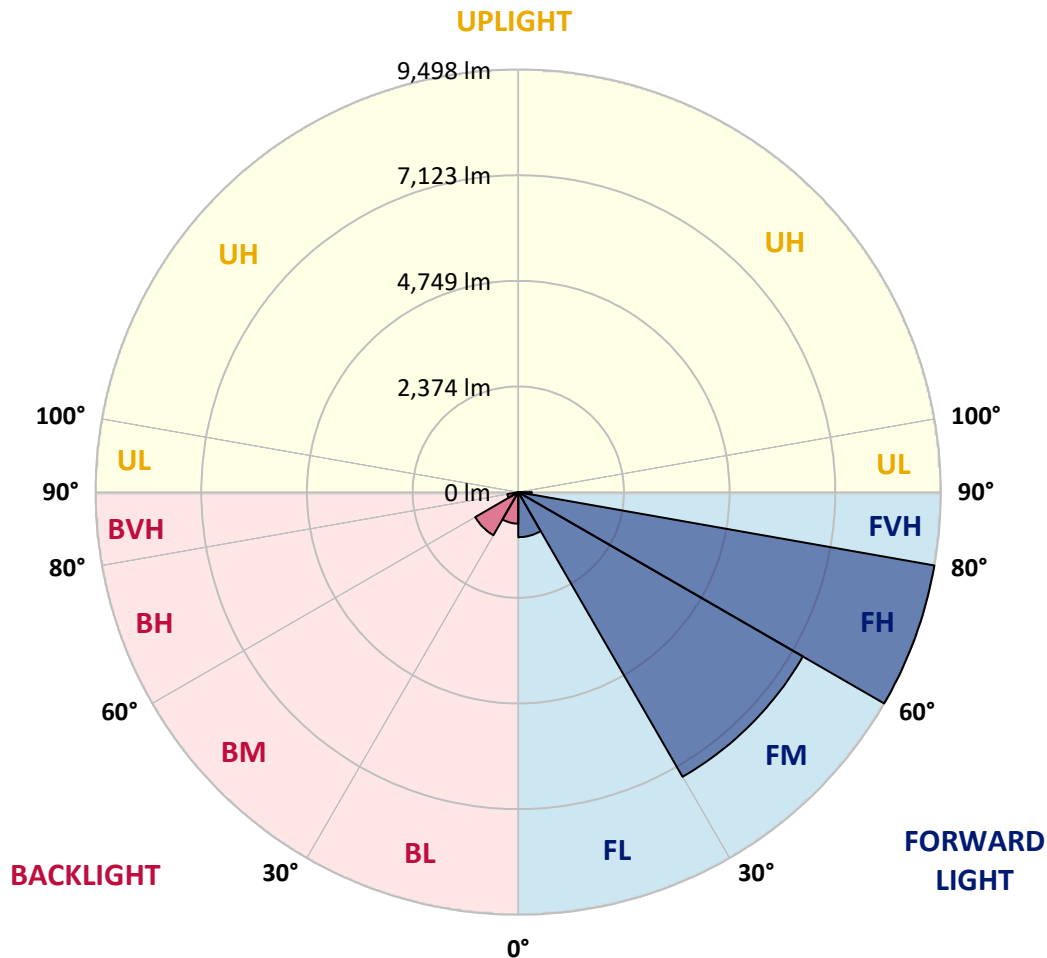
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1012.3	5.0			
FM (30°-60°)	7386.9	36.4			
FH (60°-80°)	9497.6	46.8			G4/12000
FVH (80°-90°)	304.4	1.5			G3/500
BL (0°-30°)	708.3	3.5	B2/1000		
BM (30°-60°)	1117.4	5.5	B2/2500		
BH (60°-80°)	248.2	1.2	B1/500		G1/500
BVH (80°-90°)	1.9	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





REPORT NUMBER: P483209

CATALOG NUMBER: IFLD-M-SA4C-735-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5
2.5°	2623.6	2617.7	2635.3	2664.6	2693.9	2682.2	2737.9	2796.5	2837.6	2893.2	2960.7
5°	2292.3	2307.0	2324.6	2383.2	2421.3	2430.1	2532.7	2608.9	2735.0	2863.9	2984.1
7.5°	1990.4	2008.0	2043.2	2107.6	2186.8	2207.3	2309.9	2462.3	2626.5	2796.5	2992.9
10°	1770.5	1788.1	1826.2	1867.3	1972.8	1972.8	2113.5	2324.6	2538.6	2737.9	2995.8
12.5°	1723.6	1732.4	1729.5	1761.7	1829.2	1843.8	1981.6	2213.2	2462.3	2717.4	3042.7
15°	1779.3	1785.2	1755.9	1738.3	1796.9	1811.6	1940.6	2145.8	2412.5	2729.1	3119.0
17.5°	1890.7	1870.2	1811.6	1785.2	1835.0	1843.8	1964.0	2142.8	2406.6	2761.3	3206.9
20°	1955.2	1978.7	1876.1	1826.2	1896.6	1908.3	2037.3	2189.7	2436.0	2817.0	3330.0
22.5°	2069.5	2081.3	1943.5	1911.2	1978.7	1978.7	2125.2	2283.5	2506.3	2907.9	3476.6
25°	2230.8	2216.1	2054.9	2022.6	2087.1	2113.5	2260.1	2433.0	2614.8	2992.9	3611.4
27.5°	2356.8	2365.6	2233.7	2148.7	2257.1	2274.7	2433.0	2594.3	2696.8	3063.3	3775.6
30°	2544.4	2526.8	2386.1	2289.4	2424.2	2427.2	2579.6	2746.7	2855.1	3189.3	4021.8
32.5°	2767.2	2732.0	2570.8	2433.0	2541.5	2567.9	2723.2	2966.5	3101.4	3426.8	4402.9
35°	3239.1	3154.1	2890.3	2676.3	2685.1	2696.8	2937.2	3286.1	3441.4	3728.7	4913.0
37.5°	3928.0	3892.8	3593.8	3186.4	3031.0	2995.8	3265.5	3708.2	3901.6	4127.4	5575.4
40°	4611.0	4561.2	4282.7	3974.9	3693.5	3623.2	3758.0	4268.1	4443.9	4681.4	6255.5
42.5°	5370.2	5282.3	4954.0	4704.8	4528.9	4452.7	4400.0	4971.6	5170.9	5332.1	6920.9
45°	6138.3	5994.6	5519.7	5329.2	5235.4	5194.4	5188.5	5856.9	5977.0	6009.3	7659.6
47.5°	6812.5	6657.1	6226.2	6012.2	5941.9	5930.1	6258.4	6877.0	6783.2	6698.2	8483.3
50°	7331.3	7231.7	6920.9	6844.7	6792.0	6771.4	7539.4	7926.4	7492.5	7343.0	9207.4
52.5°	8134.5	7911.7	7560.0	7586.4	7771.0	7774.0	8838.0	8923.0	8081.8	7785.7	9890.4
55°	8776.5	8629.9	8342.6	8304.5	8791.1	8843.9	10001.8	9679.3	8410.1	8207.8	10142.5
57.5°	9532.8	9465.4	9257.2	9263.1	9773.1	9884.5	11036.6	10318.4	8682.7	8480.4	10180.6
60°	10626.2	10432.7	10324.2	10374.1	10975.0	11083.5	12039.1	10778.6	8814.6	8659.2	10086.8
62.5°	11833.9	11608.2	11490.9	11745.9	12622.4	12640.0	12801.2	11186.1	8732.5	8706.1	9482.9
65°	13287.8	13065.1	12971.3	13484.2	14524.9	14460.4	13871.2	11359.0	8471.6	8234.2	7897.1
67.5°	14735.9	14601.1	14407.6	15225.5	16521.1	16521.1	14982.2	11294.5	7788.6	6610.2	5165.1
70°	15421.9	15515.7	15823.5	17107.4	18482.2	18341.5	16078.5	10552.9	5798.2	3549.9	2031.4
72°	14964.6	14867.8	15662.2	17723.0	19689.9	19458.3	15893.8	8389.5	3350.5	1556.6	706.5
72.5°	14179.0	14269.8	15363.2	17638.0	19464.2	19654.7	15442.4	7738.8	2755.5	1240.0	533.5
75°	8694.4	8849.8	11467.5	14976.3	16960.8	16746.8	11945.3	3687.6	1058.2	527.6	190.5
77.5°	3174.7	3303.6	5563.7	9424.3	12062.5	11927.7	6912.1	1310.3	574.5	392.8	96.7
80°	826.6	894.1	1890.7	4347.2	7093.9	7102.7	2893.2	524.7	389.9	322.4	58.6
82.5°	164.2	181.7	580.4	1691.4	3315.4	3271.4	914.6	281.4	293.1	263.8	41.0
85°	20.5	26.4	123.1	574.5	1072.9	961.5	225.7	140.7	216.9	205.2	26.4
87.5°	2.9	2.9	29.3	131.9	225.7	219.9	46.9	44.0	96.7	126.0	14.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483209

CATALOG NUMBER: IFLD-M-SA4C-735-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5
2.5°	2998.8	3010.5	3051.5	3086.7	3127.8	3139.5	3121.9	3151.2	3110.2	3133.6	3139.5
5°	3004.6	3072.1	3148.3	3198.1	3186.4	3157.1	3133.6	3054.5	2998.8	2978.3	3022.2
7.5°	3045.7	3121.9	3204.0	3204.0	3139.5	2987.1	2840.5	2699.8	2582.5	2523.9	2573.7
10°	3098.4	3177.6	3262.6	3151.2	2910.8	2632.4	2424.2	2160.4	1981.6	1887.8	1896.6
12.5°	3168.8	3280.2	3309.5	3051.5	2652.9	2239.6	1861.4	1495.0	1325.0	1190.1	1193.1
15°	3259.7	3368.1	3280.2	2834.6	2324.6	1714.8	1260.5	911.7	776.8	706.5	706.5
17.5°	3379.9	3461.9	3271.4	2635.3	1881.9	1172.5	773.9	615.6	586.3	574.5	574.5
20°	3520.6	3582.1	3186.4	2324.6	1398.3	753.4	568.7	551.1	554.0	548.2	548.2
22.5°	3678.9	3699.4	3089.6	1964.0	946.8	557.0	530.6	533.5	536.4	530.6	533.5
25°	3845.9	3790.2	2948.9	1541.9	630.2	507.1	513.0	518.9	521.8	524.7	524.7
27.5°	4033.5	3922.2	2752.5	1128.6	492.5	477.8	495.4	513.0	515.9	515.9	513.0
30°	4309.1	4124.4	2562.0	765.1	433.8	445.6	474.9	495.4	510.1	510.1	507.1
32.5°	4657.9	4335.5	2295.3	521.8	401.6	407.5	430.9	471.9	504.2	507.1	498.3
35°	5141.6	4590.5	2016.8	416.3	378.1	381.1	395.7	428.0	483.7	501.3	498.3
37.5°	5651.7	4880.7	1670.9	375.2	360.6	357.6	366.4	392.8	442.6	486.6	489.5
40°	6194.0	5185.6	1307.4	354.7	345.9	340.0	343.0	354.7	392.8	448.5	460.2
42.5°	6704.0	5461.1	982.0	334.2	331.2	325.4	325.4	328.3	348.8	386.9	392.8
45°	7255.1	5686.8	747.5	319.5	310.7	313.7	301.9	296.1	310.7	313.7	310.7
47.5°	7771.0	5912.5	598.0	301.9	293.1	293.1	278.5	266.8	266.8	240.4	237.4
50°	8254.7	6035.7	477.8	278.5	275.5	272.6	252.1	231.6	214.0	181.7	175.9
52.5°	8656.3	6029.8	369.4	249.2	258.0	249.2	216.9	187.6	161.2	131.9	126.0
55°	8776.5	5748.4	278.5	205.2	219.9	208.1	173.0	146.6	117.3	93.8	90.9
57.5°	8673.9	5320.4	211.1	158.3	170.0	158.3	131.9	108.5	82.1	64.5	58.6
60°	8330.9	4819.2	164.2	123.1	129.0	120.2	99.7	82.1	58.6	41.0	35.2
62.5°	7680.2	4191.8	126.0	96.7	93.8	93.8	76.2	61.6	41.0	23.5	20.5
65°	6302.4	3268.5	96.7	67.4	67.4	67.4	58.6	44.0	26.4	11.7	5.9
67.5°	3957.3	1902.5	79.1	52.8	49.8	49.8	41.0	29.3	14.7	2.9	0.0
70°	1489.1	697.7	61.6	41.0	38.1	38.1	29.3	17.6	8.8	0.0	0.0
72°	513.0	266.8	49.8	29.3	29.3	26.4	20.5	14.7	5.9	0.0	0.0
72.5°	422.1	214.0	46.9	29.3	26.4	26.4	20.5	14.7	5.9	0.0	0.0
75°	152.4	87.9	32.2	20.5	17.6	17.6	14.7	8.8	2.9	0.0	0.0
77.5°	76.2	55.7	26.4	17.6	14.7	8.8	8.8	5.9	2.9	0.0	0.0
80°	46.9	35.2	14.7	11.7	8.8	5.9	2.9	2.9	0.0	0.0	0.0
82.5°	32.2	20.5	8.8	8.8	5.9	2.9	0.0	0.0	0.0	0.0	0.0
85°	20.5	8.8	5.9	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.8	5.9	2.9	0.0	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)