

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: P483242

Luminaire Tested: **IFLD-S-SA6B-740-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483242
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-740-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

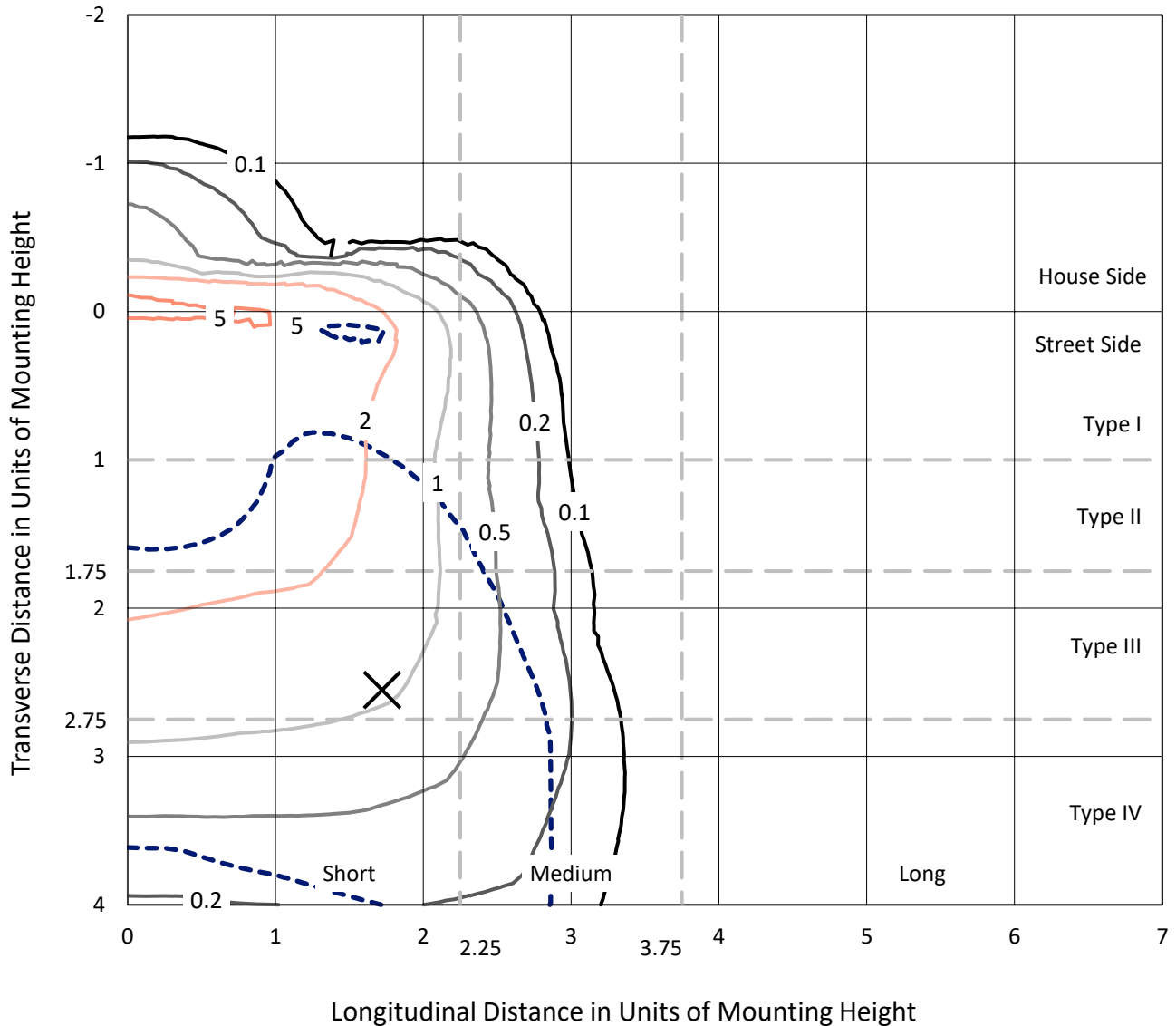
Lumens per Lamp: N/A
Luminaire Lumens: 24136.4 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

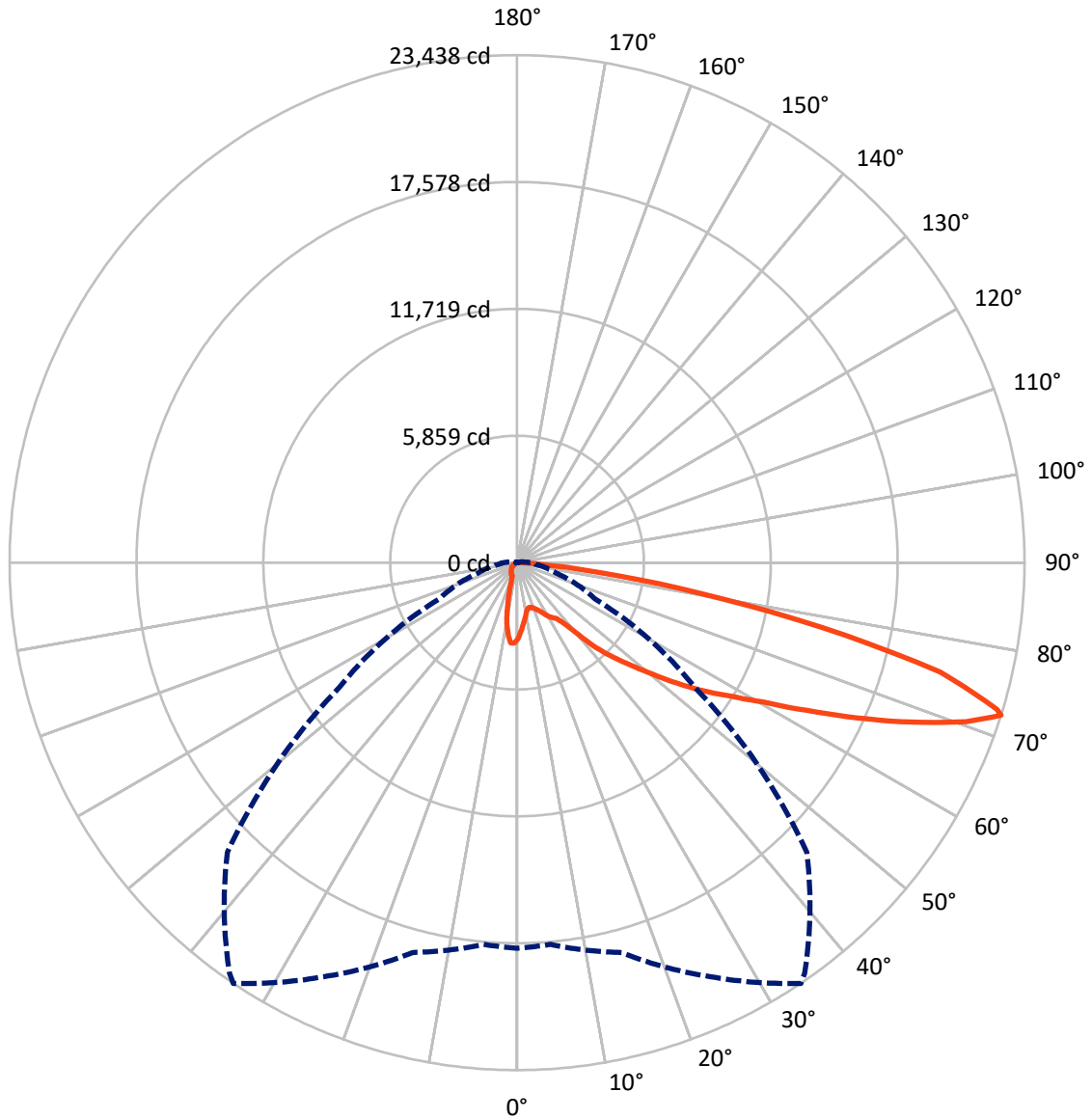
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2471.0	0.0	2471.0
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	21665.4	0.0	21665.4
	% Fixture	89.8	0.0	89.8
Total	Lumens	24136.4	0.0	24136.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.5	1.3
10°-20°	694.0	2.9
20°-30°	1047.5	4.3
30°-40°	1699.9	7.0
40°-50°	3196.6	13.2
50°-60°	5226.5	21.7
60°-70°	6947.9	28.8
70°-80°	4652.9	19.3
80°-90°	364.6	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°	24136.4	100.0
0°-180°	24136.4	100.0



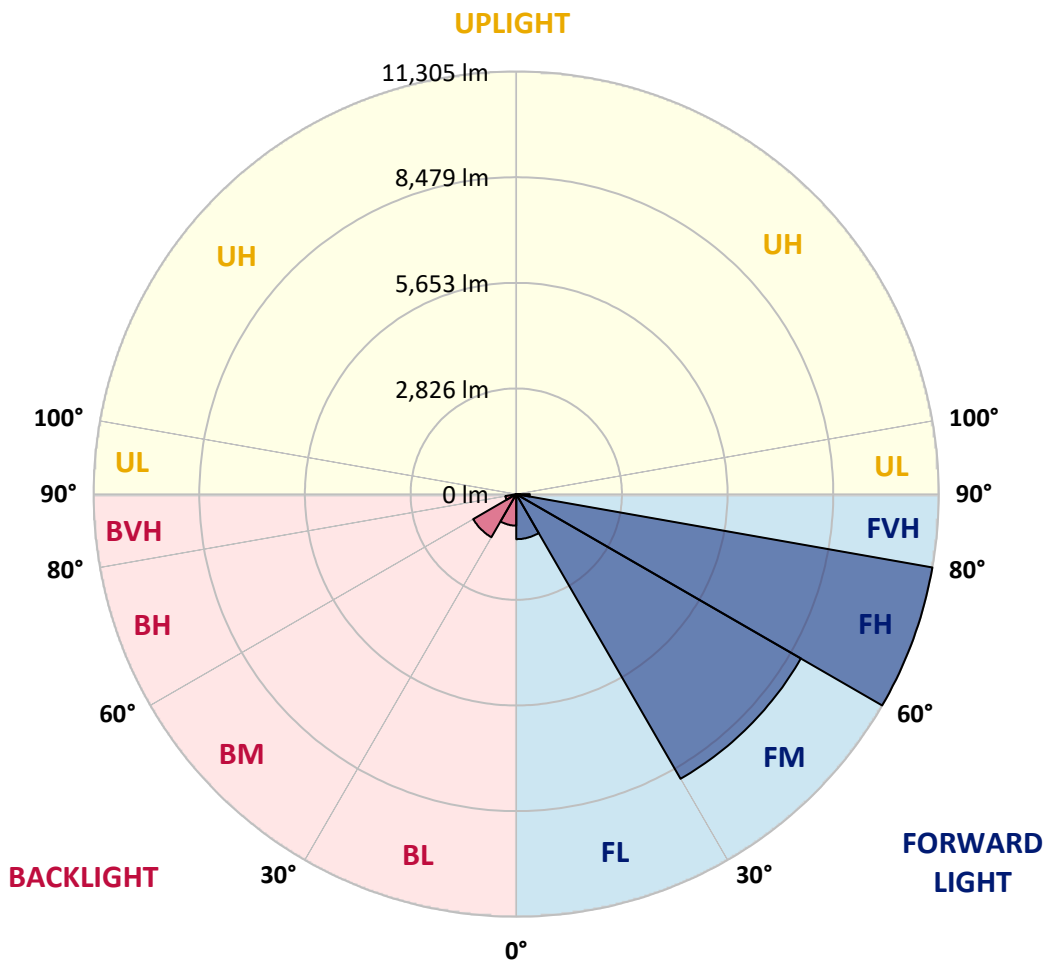
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1204.9	5.0			
FM (30°-60°)	8792.9	36.4			
FH (60°-80°)	11305.3	46.8			G4/12000
FVH (80°-90°)	362.3	1.5			G3/500
BL (0°-30°)	843.1	3.5	B2/1000		
BM (30°-60°)	1330.1	5.5	B2/2500		
BH (60°-80°)	295.5	1.2	B1/500		G1/500
BVH (80°-90°)	2.3	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°	34°	35°	45°	55°	65°	75°	85°
0°	3531.2	3531.2	3531.2	3531.2	3531.2	3531.2	3531.2	3531.2	3531.2	3531.2	3531.2
2.5°	3122.9	3116.0	3136.9	3171.8	3206.7	3192.7	3259.0	3328.8	3377.6	3443.9	3524.2
5°	2728.6	2746.1	2767.0	2836.8	2882.2	2892.6	3014.8	3105.5	3255.5	3409.1	3552.1
7.5°	2369.2	2390.2	2432.0	2508.8	2603.0	2627.4	2749.6	2931.0	3126.4	3328.8	3562.6
10°	2107.5	2128.5	2173.8	2222.7	2348.3	2348.3	2515.8	2767.0	3021.7	3259.0	3566.1
12.5°	2051.7	2062.2	2058.7	2097.1	2177.3	2194.8	2358.8	2634.4	2931.0	3234.6	3621.9
15°	2118.0	2125.0	2090.1	2069.2	2138.9	2156.4	2309.9	2554.2	2871.7	3248.5	3712.6
17.5°	2250.6	2226.2	2156.4	2125.0	2184.3	2194.8	2337.8	2550.7	2864.7	3286.9	3817.3
20°	2327.4	2355.3	2233.2	2173.8	2257.6	2271.5	2425.1	2606.5	2899.6	3353.2	3963.9
22.5°	2463.5	2477.4	2313.4	2275.0	2355.3	2355.3	2529.7	2718.2	2983.4	3461.4	4138.3
25°	2655.4	2637.9	2446.0	2407.6	2484.4	2515.8	2690.3	2896.1	3112.5	3562.6	4298.8
27.5°	2805.4	2815.9	2658.9	2557.7	2686.8	2707.7	2896.1	3088.0	3210.2	3646.3	4494.2
30°	3028.7	3007.8	2840.3	2725.1	2885.7	2889.1	3070.6	3269.5	3398.6	3796.4	4787.3
32.5°	3293.9	3252.0	3060.1	2896.1	3025.2	3056.6	3241.6	3531.2	3691.7	4079.0	5240.9
35°	3855.7	3754.5	3440.5	3185.7	3196.2	3210.2	3496.3	3911.5	4096.4	4438.4	5848.1
37.5°	4675.7	4633.8	4277.9	3792.9	3607.9	3566.1	3887.1	4414.0	4644.3	4912.9	6636.7
40°	5488.7	5429.4	5097.9	4731.5	4396.5	4312.8	4473.3	5080.4	5289.8	5572.4	7446.2
42.5°	6392.4	6287.7	5896.9	5600.3	5391.0	5300.3	5237.4	5917.9	6155.1	6347.0	8238.3
45°	7306.6	7135.6	6570.4	6343.6	6231.9	6183.1	6176.1	6971.6	7114.7	7153.1	9117.6
47.5°	8109.1	7924.2	7411.3	7156.6	7072.8	7058.9	7449.7	8185.9	8074.3	7973.1	10098.1
50°	8726.8	8608.1	8238.3	8147.5	8084.7	8060.3	8974.5	9435.1	8918.7	8740.7	10959.9
52.5°	9682.8	9417.6	8998.9	9030.3	9250.2	9253.6	10520.3	10621.5	9620.0	9267.6	11772.9
55°	10447.0	10272.5	9930.6	9885.2	10464.4	10527.2	11905.5	11521.7	10010.8	9770.1	12073.0
57.5°	11347.2	11267.0	11019.2	11026.2	11633.3	11765.9	13137.2	12282.4	10335.3	10094.6	12118.4
60°	12648.7	12418.4	12289.3	12348.7	13064.0	13193.1	14330.6	12830.2	10492.3	10307.4	12006.7
62.5°	14086.3	13817.7	13678.1	13981.7	15025.0	15045.9	15237.8	13315.2	10394.6	10363.2	11287.9
65°	15817.0	15551.8	15440.2	16050.8	17289.5	17212.8	16511.4	13521.1	10084.1	9801.5	9400.2
67.5°	17540.7	17380.2	17149.9	18123.5	19665.7	19665.7	17833.8	13444.3	9271.1	7868.4	6148.2
70°	18357.2	18468.9	18835.3	20363.6	22000.1	21832.6	19138.8	12561.5	6901.8	4225.6	2418.1
72°	17812.9	17697.8	18643.4	21096.4	23437.7	23162.0	18919.0	9986.4	3988.3	1852.8	840.9
72.5°	16877.8	16985.9	18287.5	20995.2	23169.0	23395.8	18381.7	9211.8	3279.9	1476.0	635.1
75°	10349.3	10534.2	13650.2	17826.9	20189.1	19934.4	14218.9	4389.5	1259.6	628.1	226.8
77.5°	3778.9	3932.4	6622.7	11218.1	14358.5	14198.0	8227.8	1559.7	683.9	467.6	115.1
80°	984.0	1064.2	2250.6	5174.6	8444.1	8454.6	3443.9	624.6	464.1	383.8	69.8
82.5°	195.4	216.3	690.9	2013.3	3946.4	3894.1	1088.7	335.0	348.9	314.0	48.9
85°	24.4	31.4	146.6	683.9	1277.1	1144.5	268.7	167.5	258.2	244.3	31.4
87.5°	3.5	3.5	34.9	157.0	268.7	261.7	55.8	52.3	115.1	150.0	17.4
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°	3531.2	3531.2	3531.2	3531.2	3531.2	3531.2	3531.2	3531.2	3531.2	3531.2	3531.2
2.5°	3569.6	3583.5	3632.4	3674.2	3723.1	3737.0	3716.1	3751.0	3702.2	3730.1	3737.0
5°	3576.5	3656.8	3747.5	3806.8	3792.9	3758.0	3730.1	3635.9	3569.6	3545.1	3597.5
7.5°	3625.4	3716.1	3813.8	3813.8	3737.0	3555.6	3381.1	3213.7	3074.1	3004.3	3063.6
10°	3688.2	3782.4	3883.6	3751.0	3464.9	3133.4	2885.7	2571.6	2358.8	2247.1	2257.6
12.5°	3771.9	3904.5	3939.4	3632.4	3157.8	2665.8	2215.7	1779.5	1577.2	1416.7	1420.1
15°	3880.1	4009.2	3904.5	3374.2	2767.0	2041.2	1500.4	1085.2	924.7	840.9	840.9
17.5°	4023.2	4120.9	3894.1	3136.9	2240.1	1395.7	921.2	732.8	697.9	683.9	683.9
20°	4190.7	4263.9	3792.9	2767.0	1664.4	896.8	676.9	656.0	659.5	652.5	652.5
22.5°	4379.1	4403.5	3677.7	2337.8	1127.0	663.0	631.6	635.1	638.5	631.6	635.1
25°	4578.0	4511.7	3510.2	1835.4	750.2	603.7	610.6	617.6	621.1	624.6	624.6
27.5°	4801.3	4668.7	3276.5	1343.4	586.2	568.8	589.7	610.6	614.1	614.1	610.6
30°	5129.3	4909.5	3049.7	910.7	516.4	530.4	565.3	589.7	607.1	607.1	603.7
32.5°	5544.5	5160.7	2732.1	621.1	478.0	485.0	512.9	561.8	600.2	603.7	593.2
35°	6120.2	5464.3	2400.6	495.5	450.1	453.6	471.1	509.4	575.7	596.7	593.2
37.5°	6727.4	5809.7	1988.9	446.6	429.2	425.7	436.2	467.6	526.9	579.2	582.7
40°	7372.9	6172.6	1556.2	422.2	411.7	404.8	408.2	422.2	467.6	533.9	547.8
42.5°	7980.0	6500.6	1168.9	397.8	394.3	387.3	387.3	390.8	415.2	460.6	467.6
45°	8636.0	6769.3	889.8	380.3	369.9	373.4	359.4	352.4	369.9	373.4	369.9
47.5°	9250.2	7037.9	711.8	359.4	348.9	348.9	331.5	317.5	317.5	286.1	282.6
50°	9825.9	7184.5	568.8	331.5	328.0	324.5	300.1	275.7	254.7	216.3	209.4
52.5°	10303.9	7177.5	439.7	296.6	307.1	296.6	258.2	223.3	191.9	157.0	150.0
55°	10447.0	6842.5	331.5	244.3	261.7	247.7	205.9	174.5	139.6	111.7	108.2
57.5°	10324.9	6333.1	251.2	188.4	202.4	188.4	157.0	129.1	97.7	76.8	69.8
60°	9916.6	5736.4	195.4	146.6	153.5	143.1	118.6	97.7	69.8	48.9	41.9
62.5°	9142.0	4989.7	150.0	115.1	111.7	111.7	90.7	73.3	48.9	27.9	24.4
65°	7502.0	3890.6	115.1	80.3	80.3	80.3	69.8	52.3	31.4	14.0	7.0
67.5°	4710.6	2264.6	94.2	62.8	59.3	59.3	48.9	34.9	17.4	3.5	0.0
70°	1772.6	830.5	73.3	48.9	45.4	45.4	34.9	20.9	10.5	0.0	0.0
72°	610.6	317.5	59.3	34.9	34.9	31.4	24.4	17.4	7.0	0.0	0.0
72.5°	502.5	254.7	55.8	34.9	31.4	31.4	24.4	17.4	7.0	0.0	0.0
75°	181.4	104.7	38.4	24.4	20.9	20.9	17.4	10.5	3.5	0.0	0.0
77.5°	90.7	66.3	31.4	20.9	17.4	10.5	10.5	7.0	3.5	0.0	0.0
80°	55.8	41.9	17.4	14.0	10.5	7.0	3.5	3.5	0.0	0.0	0.0
82.5°	38.4	24.4	10.5	10.5	7.0	3.5	0.0	0.0	0.0	0.0	0.0
85°	24.4	10.5	7.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.5	7.0	3.5	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)