

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: P483213

Luminaire Tested: **IFLD-L-SA7B-735-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483213
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-735-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

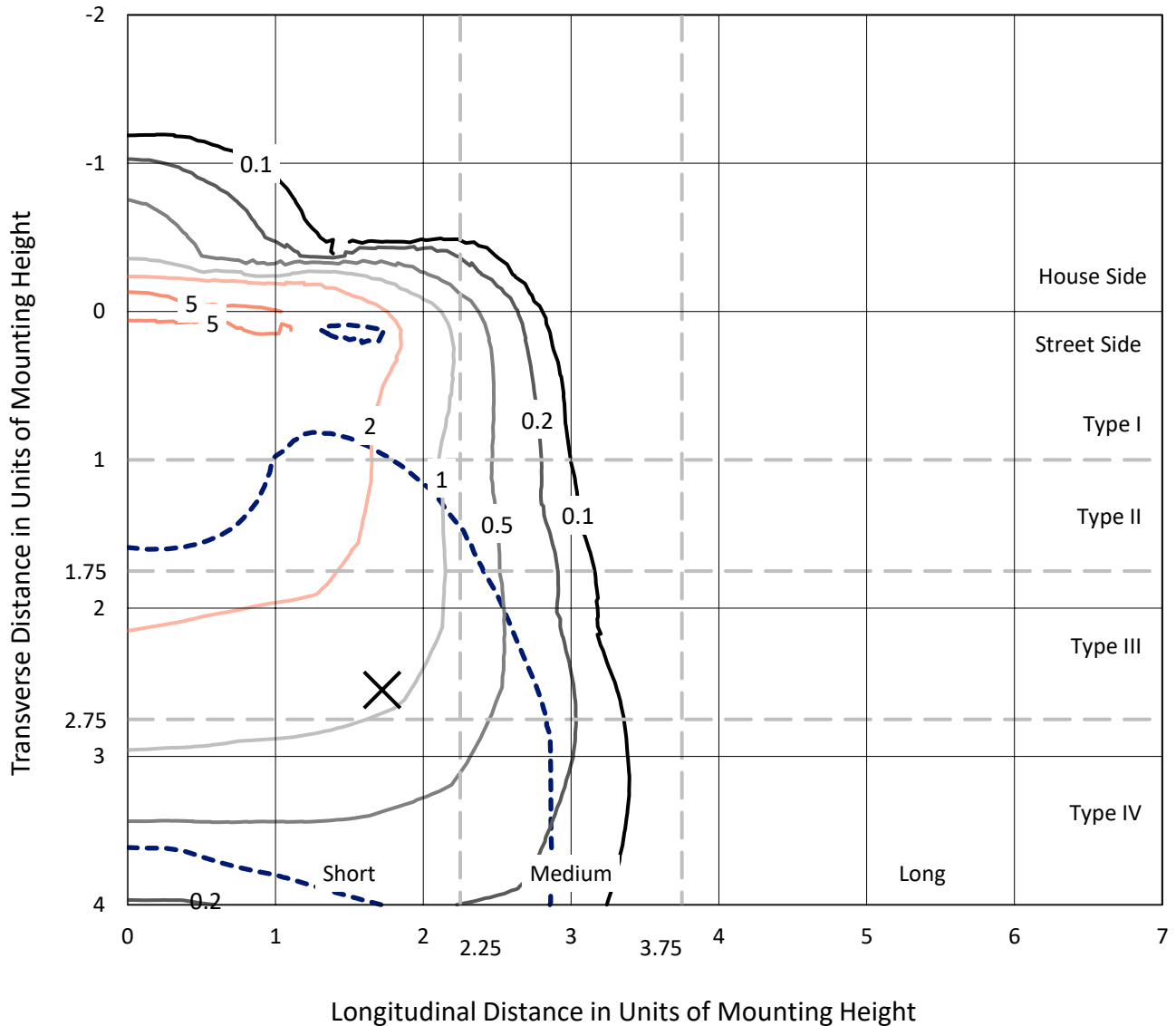
Lumens per Lamp: N/A
Luminaire Lumens: 25397.9 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
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

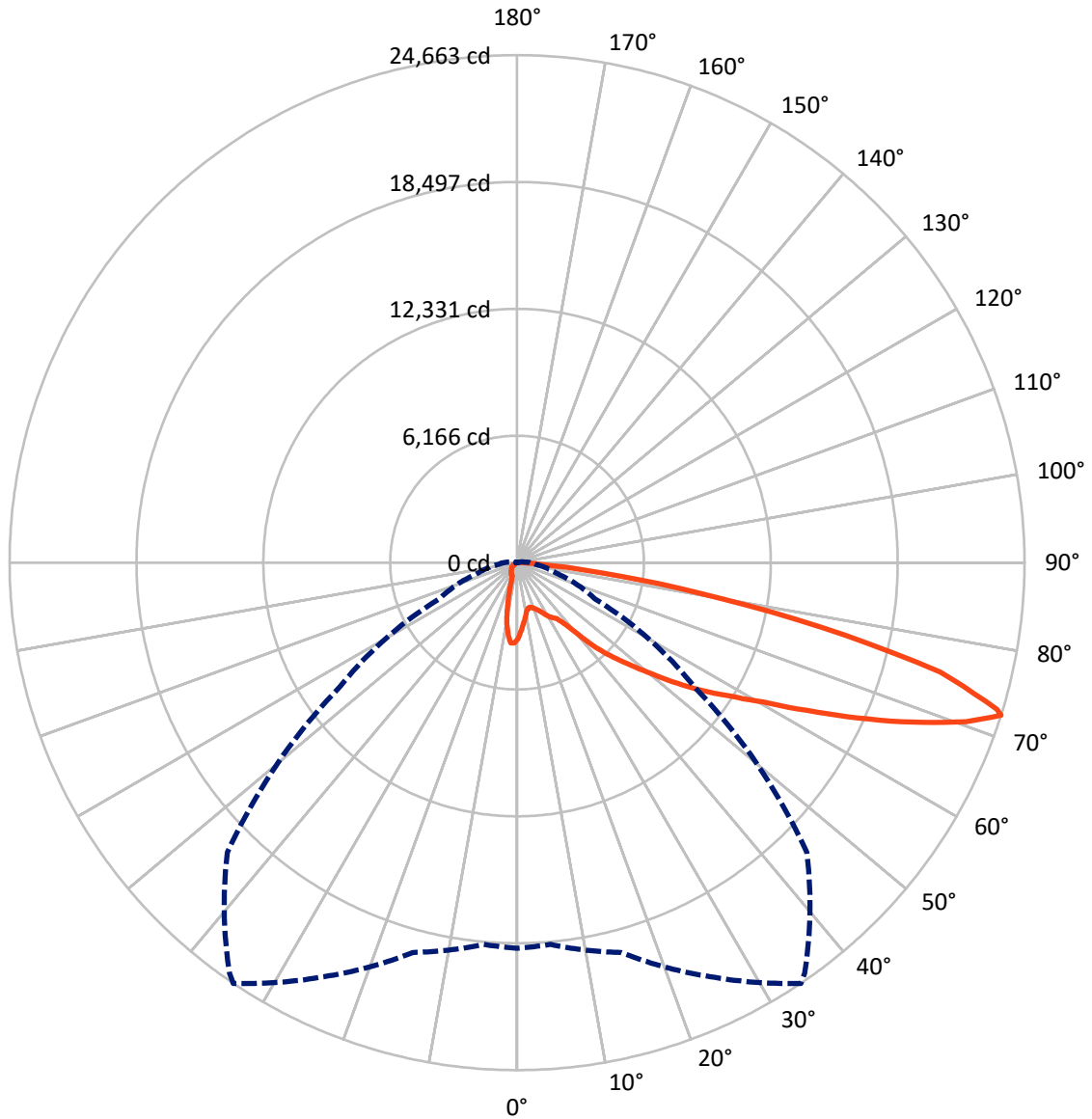
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	2600.1	0.0	2600.1
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	22797.7	0.0	22797.7
	% Fixture	89.8	0.0	89.8
Total	Lumens	25397.9	0.0	25397.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.6	1.3
10°-20°	730.3	2.9
20°-30°	1102.3	4.3
30°-40°	1788.8	7.0
40°-50°	3363.7	13.2
50°-60°	5499.6	21.7
60°-70°	7311.0	28.8
70°-80°	4896.1	19.3
80°-90°	383.7	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°	25397.9	100.0
0°-180°	25397.9	100.0

Coefficient of Utilization



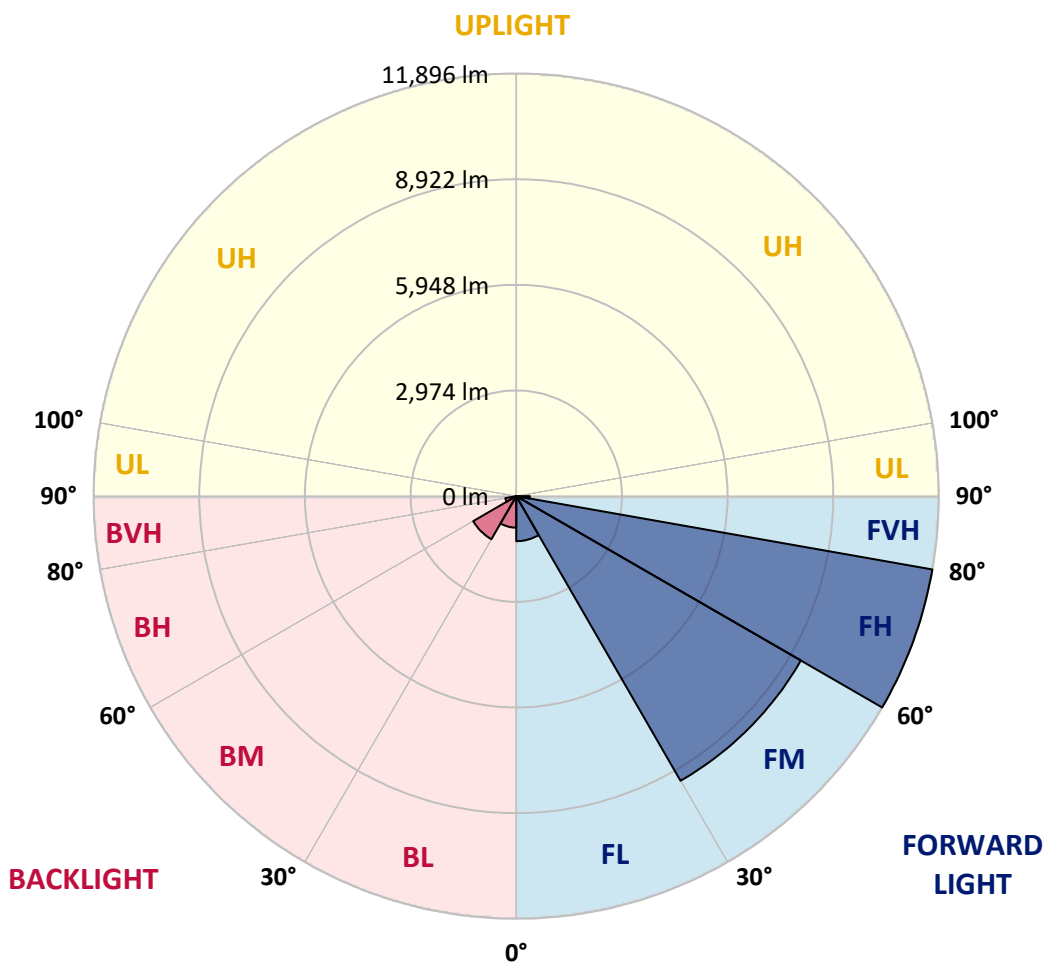
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1267.9	5.0			
FM (30°-60°)	9252.4	36.4			
FH (60°-80°)	11896.2	46.8			G4/12000
FVH (80°-90°)	381.3	1.5			G3/500
BL (0°-30°)	887.2	3.5	B2/1000		
BM (30°-60°)	1399.6	5.5	B2/2500		
BH (60°-80°)	310.9	1.2	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: 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°	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7
2.5°	3286.1	3278.8	3300.8	3337.5	3374.3	3359.6	3429.3	3502.8	3554.2	3623.9	3708.4
5°	2871.2	2889.6	2911.6	2985.1	3032.8	3043.8	3172.3	3267.8	3425.7	3587.2	3737.8
7.5°	2493.1	2515.1	2559.2	2639.9	2739.1	2764.8	2893.3	3084.2	3289.8	3502.8	3748.8
10°	2217.7	2239.7	2287.4	2338.9	2471.0	2471.0	2647.3	2911.6	3179.7	3429.3	3752.4
12.5°	2158.9	2170.0	2166.3	2206.7	2291.1	2309.5	2482.0	2772.1	3084.2	3403.6	3811.2
15°	2228.7	2236.0	2199.3	2177.3	2250.7	2269.1	2430.6	2687.7	3021.8	3418.3	3906.7
17.5°	2368.2	2342.5	2269.1	2236.0	2298.5	2309.5	2460.0	2684.0	3014.4	3458.7	4016.8
20°	2449.0	2478.4	2349.9	2287.4	2375.6	2390.3	2551.8	2742.7	3051.2	3528.5	4171.0
22.5°	2592.2	2606.9	2434.3	2393.9	2478.4	2478.4	2662.0	2860.2	3139.3	3642.3	4354.6
25°	2794.1	2775.8	2573.8	2533.5	2614.2	2647.3	2830.9	3047.5	3275.1	3748.8	4523.5
27.5°	2952.0	2963.0	2797.8	2691.3	2827.2	2849.2	3047.5	3249.4	3377.9	3836.9	4729.1
30°	3187.0	3165.0	2988.7	2867.6	3036.5	3040.1	3231.1	3440.4	3576.2	3994.8	5037.5
32.5°	3466.1	3422.0	3220.1	3047.5	3183.3	3216.4	3411.0	3715.7	3884.6	4292.2	5514.8
35°	4057.2	3950.7	3620.3	3352.2	3363.2	3377.9	3679.0	4115.9	4310.5	4670.4	6153.7
37.5°	4920.0	4876.0	4501.5	3991.1	3796.5	3752.4	4090.2	4644.7	4887.0	5169.7	6983.5
40°	5775.5	5713.1	5364.3	4978.8	4626.3	4538.2	4707.1	5345.9	5566.2	5863.7	7835.3
42.5°	6726.5	6616.3	6205.1	5893.0	5672.7	5577.3	5511.2	6227.1	6476.8	6678.8	8668.8
45°	7688.5	7508.6	6913.8	6675.1	6557.6	6506.2	6498.9	7336.0	7486.5	7526.9	9594.1
47.5°	8533.0	8338.4	7798.6	7530.6	7442.5	7427.8	7839.0	8613.7	8496.2	8389.8	10625.8
50°	9182.8	9058.0	8668.8	8573.3	8507.3	8481.6	9443.5	9928.2	9384.8	9197.5	11532.7
52.5°	10188.9	9909.8	9469.2	9502.3	9733.6	9737.3	11070.1	11176.6	10122.8	9752.0	12388.2
55°	10993.0	10809.4	10449.6	10401.8	11011.3	11077.4	12527.7	12123.8	10534.0	10280.7	12704.0
57.5°	11940.3	11855.8	11595.1	11602.5	12241.3	12380.9	13823.8	12924.3	10875.5	10622.1	12751.7
60°	13309.8	13067.5	12931.6	12994.0	13746.7	13882.6	15079.5	13500.7	11040.7	10846.1	12634.2
62.5°	14822.5	14539.8	14392.9	14712.4	15810.2	15832.2	16034.2	14011.1	10937.9	10904.9	11877.8
65°	16643.7	16364.6	16247.1	16889.7	18193.1	18112.3	17374.3	14227.7	10611.1	10313.7	9891.5
67.5°	18457.5	18288.6	18046.3	19070.6	20693.5	20693.5	18765.9	14146.9	9755.6	8279.6	6469.5
70°	19316.6	19434.1	19819.7	21427.9	23149.9	22973.6	20139.1	13218.0	7262.6	4446.4	2544.5
72°	18743.9	18622.7	19617.7	22198.9	24662.6	24372.5	19907.8	10508.3	4196.7	1949.7	884.9
72.5°	17759.9	17873.7	19243.2	22092.4	24379.9	24618.5	19342.3	9693.2	3451.4	1553.1	668.2
75°	10890.2	11084.8	14363.6	18758.6	21244.3	20976.2	14962.0	4619.0	1325.5	660.9	238.7
77.5°	3976.4	4138.0	6968.8	11804.4	15108.9	14940.0	8657.8	1641.2	719.6	492.0	121.2
80°	1035.4	1119.9	2368.2	5445.1	8885.4	8896.5	3623.9	657.2	488.3	403.9	73.4
82.5°	205.6	227.6	727.0	2118.6	4152.7	4097.6	1145.6	352.5	367.2	330.5	51.4
85°	25.7	33.0	154.2	719.6	1343.8	1204.3	282.7	176.2	271.7	257.0	33.0
87.5°	3.7	3.7	36.7	165.2	282.7	275.4	58.7	55.1	121.2	157.9	18.4
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°	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7
2.5°	3756.1	3770.8	3822.2	3866.3	3917.7	3932.4	3910.3	3947.0	3895.6	3925.0	3932.4
5°	3763.5	3847.9	3943.4	4005.8	3991.1	3954.4	3925.0	3825.9	3756.1	3730.4	3785.5
7.5°	3814.9	3910.3	4013.1	4013.1	3932.4	3741.4	3557.8	3381.6	3234.7	3161.3	3223.7
10°	3881.0	3980.1	4086.6	3947.0	3646.0	3297.2	3036.5	2706.0	2482.0	2364.6	2375.6
12.5°	3969.1	4108.6	4145.3	3822.2	3322.9	2805.2	2331.5	1872.6	1659.6	1490.7	1494.4
15°	4082.9	4218.7	4108.6	3550.5	2911.6	2147.9	1578.8	1141.9	973.0	884.9	884.9
17.5°	4233.4	4336.2	4097.6	3300.8	2357.2	1468.7	969.3	771.1	734.3	719.6	719.6
20°	4409.7	4486.8	3991.1	2911.6	1751.4	943.6	712.3	690.3	693.9	686.6	686.6
22.5°	4607.9	4633.6	3869.9	2460.0	1185.9	697.6	664.6	668.2	671.9	664.6	668.2
25°	4817.2	4747.5	3693.7	1931.3	789.4	635.2	642.5	649.9	653.6	657.2	657.2
27.5°	5052.2	4912.7	3447.7	1413.6	616.8	598.5	620.5	642.5	646.2	646.2	642.5
30°	5397.4	5166.0	3209.0	958.3	543.4	558.1	594.8	620.5	638.9	638.9	635.2
32.5°	5834.3	5430.4	2874.9	653.6	503.0	510.4	539.7	591.1	631.5	635.2	624.2
35°	6440.1	5749.8	2526.1	521.4	473.6	477.3	495.7	536.1	605.8	627.9	624.2
37.5°	7079.0	6113.3	2092.9	470.0	451.6	447.9	459.0	492.0	554.4	609.5	613.2
40°	7758.2	6495.2	1637.6	444.3	433.3	425.9	429.6	444.3	492.0	561.8	576.5
42.5°	8397.1	6840.3	1230.0	418.6	414.9	407.6	407.6	411.2	436.9	484.7	492.0
45°	9087.4	7123.0	936.3	400.2	389.2	392.9	378.2	370.8	389.2	392.9	389.2
47.5°	9733.6	7405.8	749.0	378.2	367.2	367.2	348.8	334.1	334.1	301.1	297.4
50°	10339.4	7560.0	598.5	348.8	345.1	341.5	315.8	290.1	268.0	227.6	220.3
52.5°	10842.4	7552.6	462.6	312.1	323.1	312.1	271.7	235.0	201.9	165.2	157.9
55°	10993.0	7200.1	348.8	257.0	275.4	260.7	216.6	183.6	146.9	117.5	113.8
57.5°	10864.5	6664.1	264.4	198.3	213.0	198.3	165.2	135.9	102.8	80.8	73.4
60°	10434.9	6036.2	205.6	154.2	161.6	150.5	124.8	102.8	73.4	51.4	44.1
62.5°	9619.8	5250.5	157.9	121.2	117.5	117.5	95.5	77.1	51.4	29.4	25.7
65°	7894.1	4093.9	121.2	84.4	84.4	84.4	73.4	55.1	33.0	14.7	7.3
67.5°	4956.8	2382.9	99.1	66.1	62.4	62.4	51.4	36.7	18.4	3.7	0.0
70°	1865.2	873.9	77.1	51.4	47.7	47.7	36.7	22.0	11.0	0.0	0.0
72°	642.5	334.1	62.4	36.7	36.7	33.0	25.7	18.4	7.3	0.0	0.0
72.5°	528.7	268.0	58.7	36.7	33.0	33.0	25.7	18.4	7.3	0.0	0.0
75°	190.9	110.2	40.4	25.7	22.0	22.0	18.4	11.0	3.7	0.0	0.0
77.5°	95.5	69.8	33.0	22.0	18.4	11.0	11.0	7.3	3.7	0.0	0.0
80°	58.7	44.1	18.4	14.7	11.0	7.3	3.7	3.7	0.0	0.0	0.0
82.5°	40.4	25.7	11.0	11.0	7.3	3.7	0.0	0.0	0.0	0.0	0.0
85°	25.7	11.0	7.3	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.0	7.3	3.7	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)