

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: P483256

Luminaire Tested: **IFLD-L-SA8A-740-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483256
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

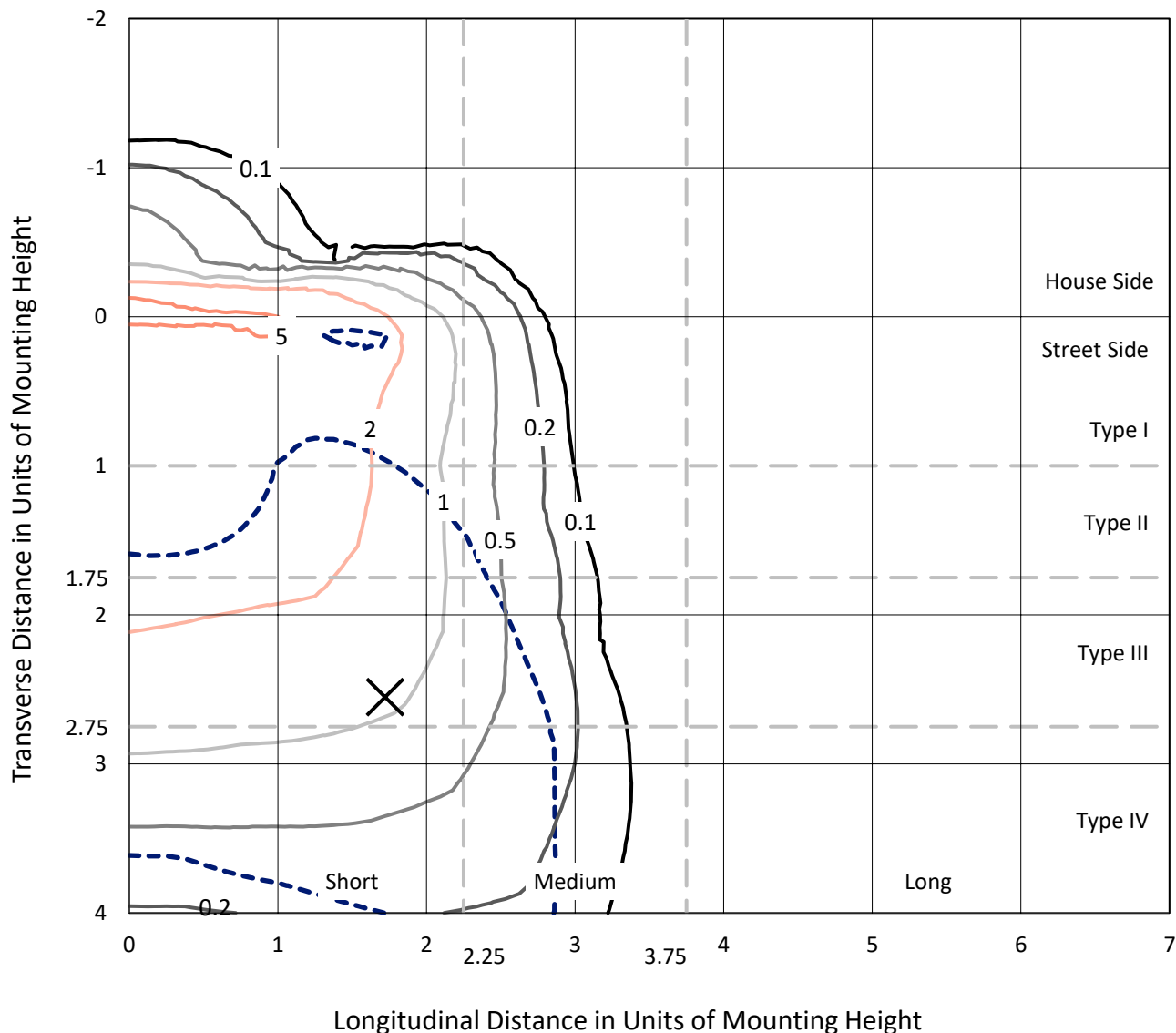
Lumens per Lamp: N/A
Luminaire Lumens: 24770.3 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

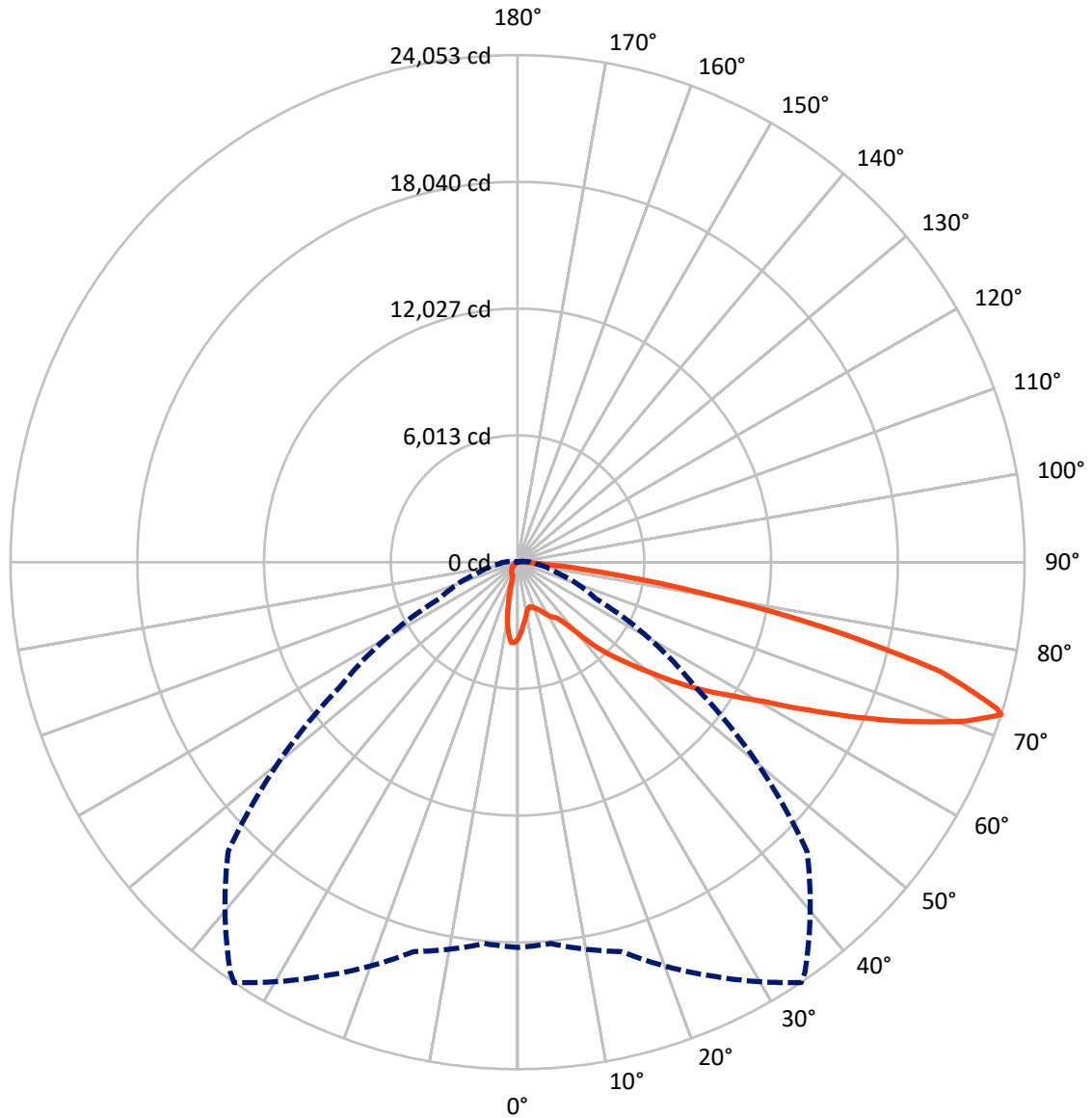
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	2535.9	0.0	2535.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	22234.4	0.0	22234.4
	% Fixture	89.8	0.0	89.8
Total	Lumens	24770.3	0.0	24770.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.6	1.3
10°-20°	712.2	2.9
20°-30°	1075.0	4.3
30°-40°	1744.6	7.0
40°-50°	3280.5	13.2
50°-60°	5363.7	21.7
60°-70°	7130.3	28.8
70°-80°	4775.1	19.3
80°-90°	374.2	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°	24770.3	100.0
0°-180°	24770.3	100.0



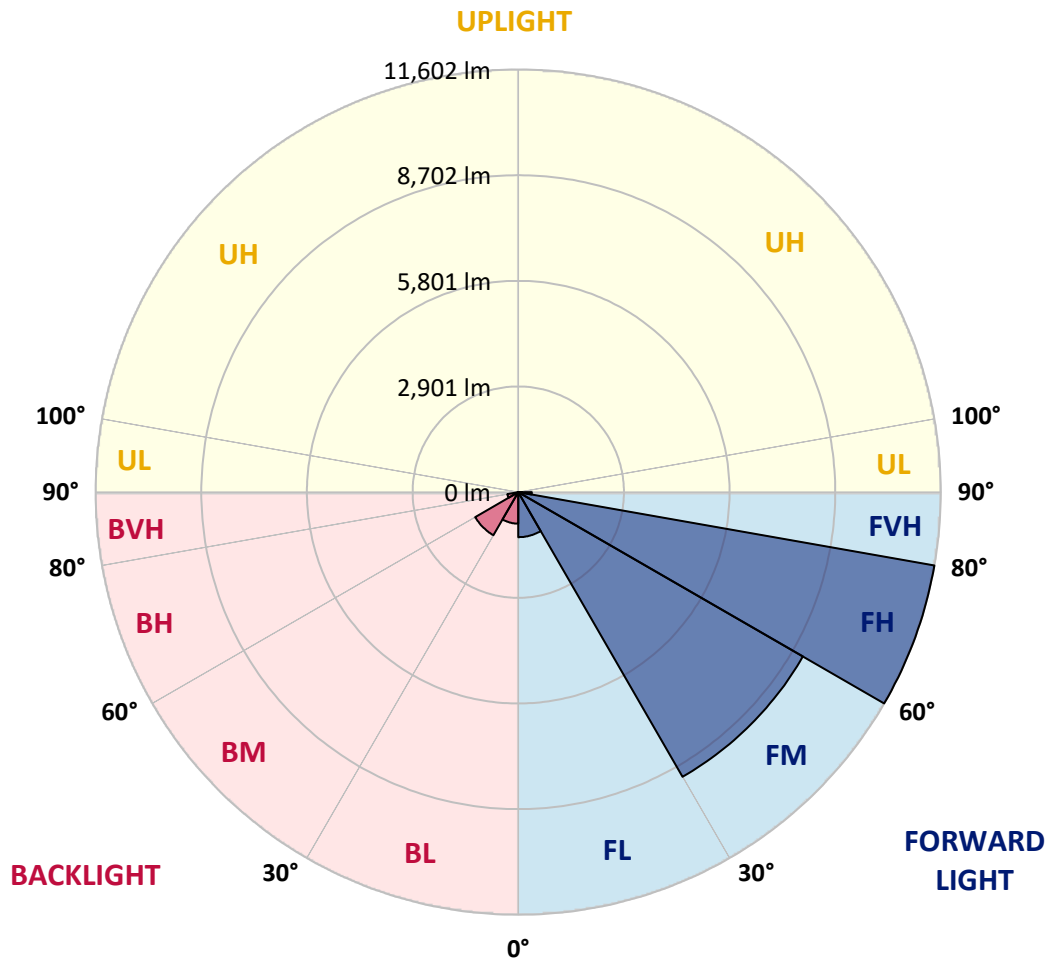
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1236.6	5.0			
FM (30°-60°)	9023.8	36.4			
FH (60°-80°)	11602.2	46.8			G4/12000
FVH (80°-90°)	371.8	1.5			G3/500
BL (0°-30°)	865.2	3.5	B2/1000		
BM (30°-60°)	1365.0	5.5	B2/2500		
BH (60°-80°)	303.2	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°	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9
2.5°	3204.9	3197.8	3219.3	3255.1	3290.9	3276.6	3344.6	3416.2	3466.3	3534.4	3616.7
5°	2800.3	2818.2	2839.7	2911.3	2957.9	2968.6	3093.9	3187.0	3341.0	3498.6	3645.4
7.5°	2431.5	2452.9	2495.9	2574.7	2671.4	2696.4	2821.8	3008.0	3208.5	3416.2	3656.1
10°	2162.9	2184.4	2230.9	2281.1	2410.0	2410.0	2581.9	2839.7	3101.1	3344.6	3659.7
12.5°	2105.6	2116.3	2112.8	2152.1	2234.5	2252.4	2420.7	2703.6	3008.0	3319.5	3717.0
15°	2173.6	2180.8	2145.0	2123.5	2195.1	2213.0	2370.6	2621.2	2947.1	3333.9	3810.1
17.5°	2309.7	2284.6	2213.0	2180.8	2241.7	2252.4	2399.2	2617.7	2939.9	3373.2	3917.5
20°	2388.5	2417.1	2291.8	2230.9	2316.9	2331.2	2488.8	2675.0	2975.8	3441.3	4067.9
22.5°	2528.1	2542.5	2374.2	2334.8	2417.1	2417.1	2596.2	2789.6	3061.7	3552.3	4247.0
25°	2725.1	2707.2	2510.2	2470.8	2549.6	2581.9	2760.9	2972.2	3194.2	3656.1	4411.7
27.5°	2879.1	2889.8	2728.7	2624.8	2757.3	2778.8	2972.2	3169.1	3294.5	3742.1	4612.2
30°	3108.3	3086.8	2914.9	2796.7	2961.4	2965.0	3151.2	3355.3	3487.8	3896.1	4913.0
32.5°	3380.4	3337.4	3140.5	2972.2	3104.7	3136.9	3326.7	3623.9	3788.6	4186.1	5378.6
35°	3956.9	3853.1	3530.8	3269.4	3280.1	3294.5	3588.1	4014.2	4204.0	4555.0	6001.7
37.5°	4798.5	4755.5	4390.2	3892.5	3702.7	3659.7	3989.2	4529.9	4766.2	5042.0	6810.9
40°	5632.8	5571.9	5231.7	4855.8	4512.0	4426.0	4590.8	5213.8	5428.7	5718.8	7641.7
42.5°	6560.3	6452.8	6051.8	5747.4	5532.5	5439.4	5375.0	6073.3	6316.8	6513.7	8454.6
45°	7498.5	7323.0	6742.9	6510.1	6395.6	6345.4	6338.3	7154.7	7301.5	7340.9	9357.0
47.5°	8322.1	8132.3	7605.9	7344.5	7258.6	7244.2	7645.3	8400.9	8286.3	8182.4	10363.2
50°	8955.9	8834.2	8454.6	8361.5	8297.0	8272.0	9210.2	9682.9	9152.9	8970.2	11247.7
52.5°	9937.1	9665.0	9235.2	9267.5	9493.1	9496.6	10796.5	10900.4	9872.6	9511.0	12082.1
55°	10721.3	10542.3	10191.3	10144.8	10739.2	10803.7	12218.2	11824.3	10273.7	10026.6	12390.0
57.5°	11645.2	11562.8	11308.6	11315.8	11938.8	12074.9	13482.2	12604.9	10606.7	10359.7	12436.6
60°	12980.9	12744.6	12612.1	12672.9	13407.0	13539.5	14706.9	13167.1	10767.9	10578.1	12322.0
62.5°	14456.2	14180.5	14037.3	14348.8	15419.5	15441.0	15638.0	13664.9	10667.6	10635.4	11584.3
65°	16232.4	15960.2	15845.6	16472.3	17743.5	17664.8	16945.0	13876.1	10348.9	10058.9	9647.0
67.5°	18001.4	17836.7	17600.3	18599.4	20182.2	20182.2	18302.2	13797.4	9514.6	8075.0	6309.6
70°	18839.3	18953.9	19329.9	20898.4	22577.8	22405.9	19641.4	12891.4	7083.1	4336.5	2481.6
72°	18280.7	18162.5	19132.9	21650.3	24053.2	23770.3	19415.8	10248.6	4093.0	1901.5	863.0
72.5°	17321.0	17432.0	18767.7	21546.5	23777.4	24010.2	18864.4	9453.7	3366.1	1514.7	651.7
75°	10621.1	10810.9	14008.6	18295.0	20719.3	20457.9	14592.3	4504.8	1292.7	644.6	232.8
77.5°	3878.2	4035.7	6796.6	11512.7	14735.6	14570.8	8443.9	1600.7	701.9	479.8	118.2
80°	1009.8	1092.2	2309.7	5310.5	8665.9	8676.6	3534.4	641.0	476.3	393.9	71.6
82.5°	200.5	222.0	709.0	2066.2	4050.0	3996.3	1117.3	343.8	358.1	322.3	50.1
85°	25.1	32.2	150.4	701.9	1310.6	1174.5	275.7	171.9	265.0	250.7	32.2
87.5°	3.6	3.6	35.8	161.1	275.7	268.6	57.3	53.7	118.2	154.0	17.9
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°	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9
2.5°	3663.3	3677.6	3727.8	3770.7	3820.9	3835.2	3813.7	3849.5	3799.4	3828.0	3835.2
5°	3670.5	3752.8	3845.9	3906.8	3892.5	3856.7	3828.0	3731.3	3663.3	3638.2	3691.9
7.5°	3720.6	3813.7	3914.0	3914.0	3835.2	3649.0	3469.9	3298.0	3154.8	3083.2	3144.1
10°	3785.1	3881.7	3985.6	3849.5	3555.9	3215.7	2961.4	2639.2	2420.7	2306.1	2316.9
12.5°	3871.0	4007.1	4042.9	3727.8	3240.7	2735.8	2273.9	1826.3	1618.6	1453.9	1457.4
15°	3982.0	4114.5	4007.1	3462.8	2839.7	2094.8	1539.8	1113.7	948.9	863.0	863.0
17.5°	4128.8	4229.1	3996.3	3219.3	2299.0	1432.4	945.4	752.0	716.2	701.9	701.9
20°	4300.7	4375.9	3892.5	2839.7	1708.1	920.3	694.7	673.2	676.8	669.6	669.6
22.5°	4494.1	4519.1	3774.3	2399.2	1156.6	680.4	648.1	651.7	655.3	648.1	651.7
25°	4698.2	4630.2	3602.4	1883.6	769.9	619.5	626.7	633.8	637.4	641.0	641.0
27.5°	4927.4	4791.3	3362.5	1378.7	601.6	583.7	605.2	626.7	630.2	630.2	626.7
30°	5264.0	5038.4	3129.7	934.6	530.0	544.3	580.1	605.2	623.1	623.1	619.5
32.5°	5690.1	5296.2	2803.9	637.4	490.6	497.8	526.4	576.5	615.9	619.5	608.8
35°	6281.0	5607.7	2463.7	508.5	461.9	465.5	483.4	522.8	590.9	612.3	608.8
37.5°	6904.0	5962.3	2041.1	458.4	440.5	436.9	447.6	479.8	540.7	594.4	598.0
40°	7566.5	6334.7	1597.1	433.3	422.6	415.4	419.0	433.3	479.8	547.9	562.2
42.5°	8189.6	6671.3	1199.6	408.2	404.6	397.5	397.5	401.1	426.1	472.7	479.8
45°	8862.8	6947.0	913.1	390.3	379.6	383.2	368.8	361.7	379.6	383.2	379.6
47.5°	9493.1	7222.8	730.5	368.8	358.1	358.1	340.2	325.9	325.9	293.6	290.1
50°	10083.9	7373.2	583.7	340.2	336.6	333.0	308.0	282.9	261.4	222.0	214.9
52.5°	10574.5	7366.0	451.2	304.4	315.1	304.4	265.0	229.2	197.0	161.1	154.0
55°	10721.3	7022.2	340.2	250.7	268.6	254.2	211.3	179.0	143.2	114.6	111.0
57.5°	10596.0	6499.4	257.8	193.4	207.7	193.4	161.1	132.5	100.3	78.8	71.6
60°	10177.0	5887.1	200.5	150.4	157.6	146.8	121.8	100.3	71.6	50.1	43.0
62.5°	9382.1	5120.7	154.0	118.2	114.6	114.6	93.1	75.2	50.1	28.6	25.1
65°	7699.0	3992.7	118.2	82.4	82.4	82.4	71.6	53.7	32.2	14.3	7.2
67.5°	4834.3	2324.0	96.7	64.5	60.9	60.9	50.1	35.8	17.9	3.6	0.0
70°	1819.1	852.3	75.2	50.1	46.6	46.6	35.8	21.5	10.7	0.0	0.0
72°	626.7	325.9	60.9	35.8	35.8	32.2	25.1	17.9	7.2	0.0	0.0
72.5°	515.7	261.4	57.3	35.8	32.2	32.2	25.1	17.9	7.2	0.0	0.0
75°	186.2	107.4	39.4	25.1	21.5	21.5	17.9	10.7	3.6	0.0	0.0
77.5°	93.1	68.0	32.2	21.5	17.9	10.7	10.7	7.2	3.6	0.0	0.0
80°	57.3	43.0	17.9	14.3	10.7	7.2	3.6	3.6	0.0	0.0	0.0
82.5°	39.4	25.1	10.7	10.7	7.2	3.6	0.0	0.0	0.0	0.0	0.0
85°	25.1	10.7	7.2	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.7	7.2	3.6	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)