

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: P483687

Luminaire Tested: **IFLD-L-SA8C-750-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483687
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-750-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

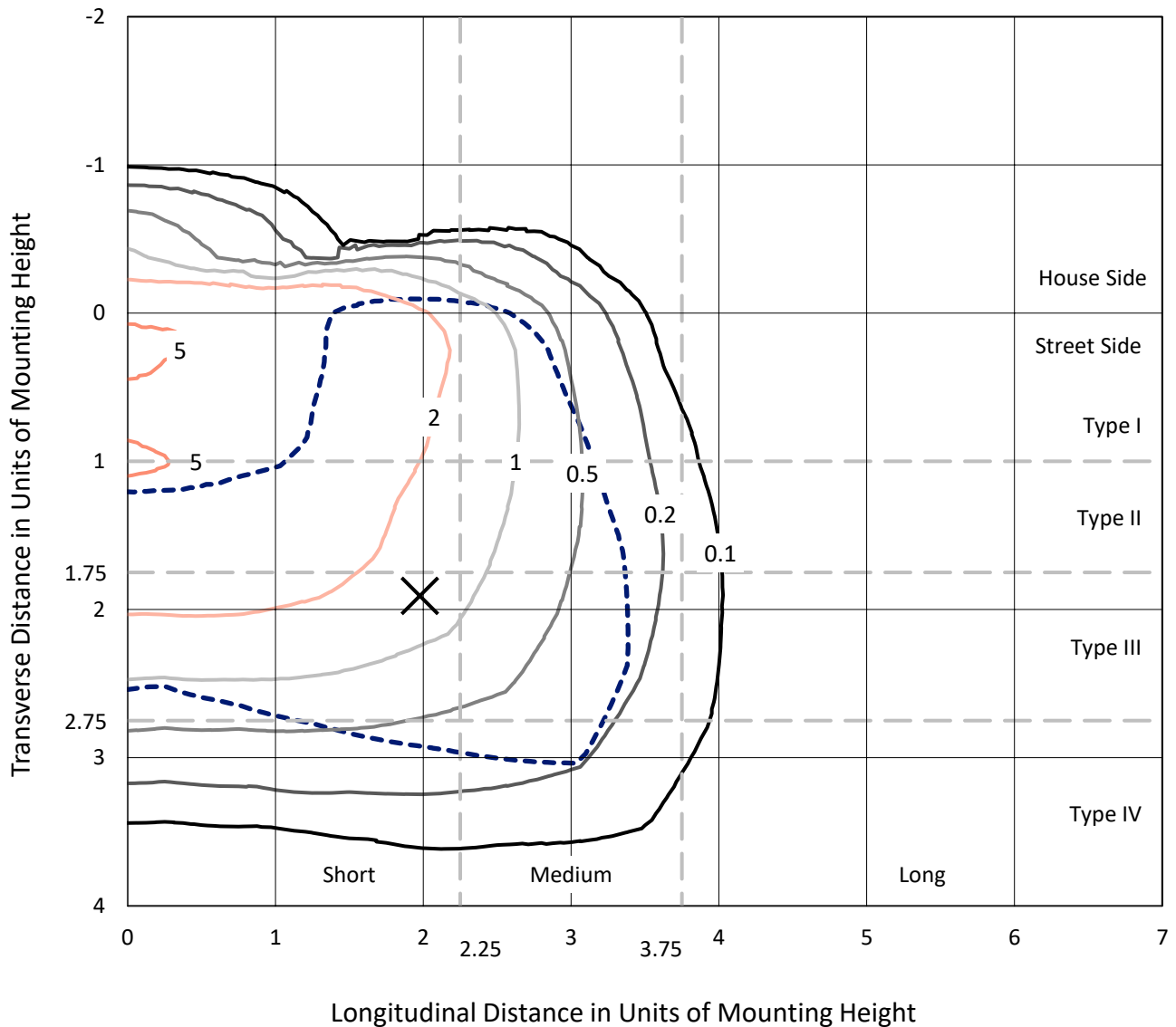
Lumens per Lamp: N/A
Luminaire Lumens: 38237.7 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 420.3
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

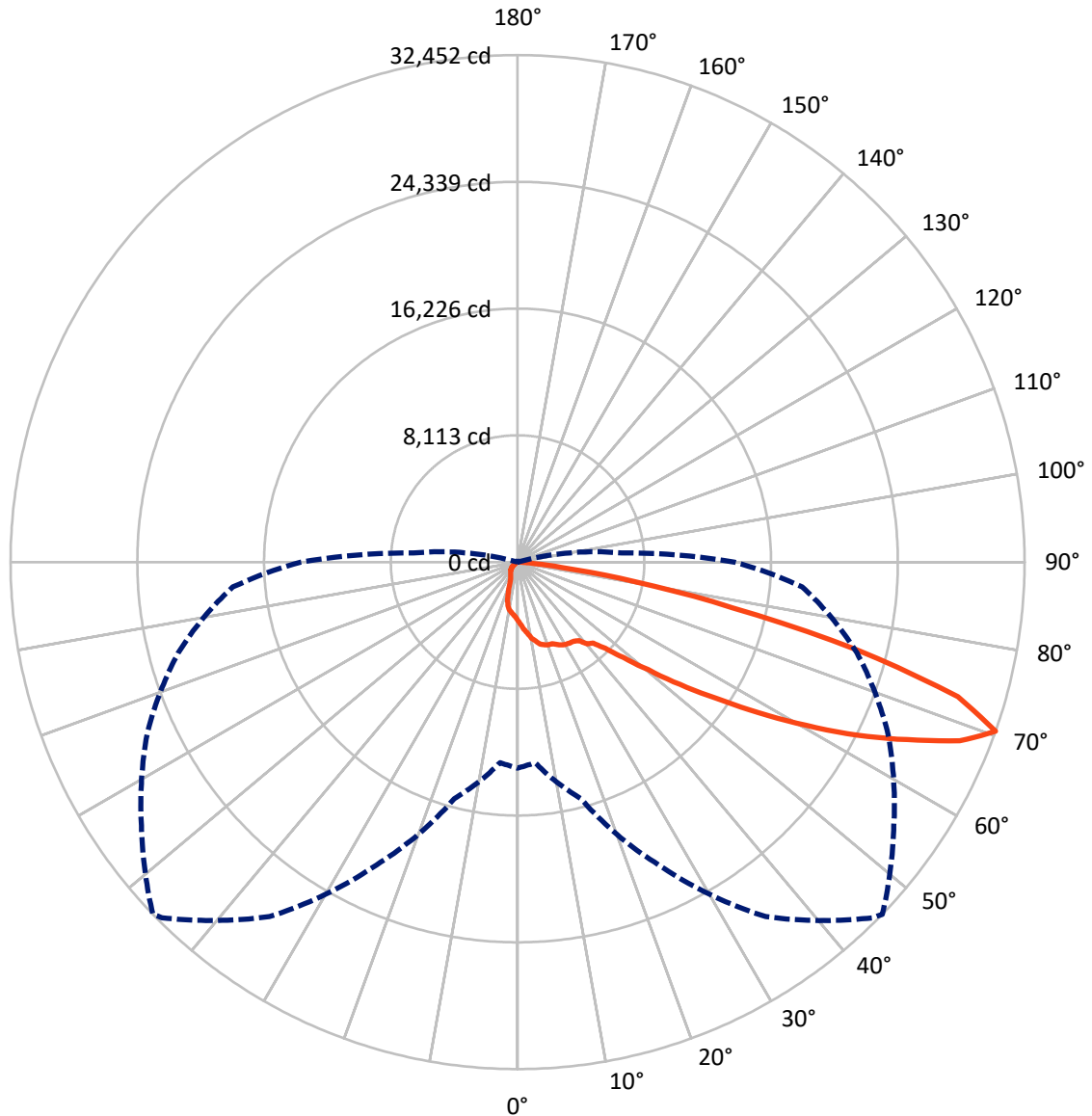
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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	3804.8	0.0	3804.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	34433.0	0.0	34433.0
	% Fixture	90.0	0.0	90.0
Total	Lumens	38237.7	0.0	38237.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.3	1.0
10°-20°	1130.3	3.0
20°-30°	1810.5	4.7
30°-40°	2584.3	6.8
40°-50°	4462.4	11.7
50°-60°	8543.7	22.3
60°-70°	12651.8	33.1
70°-80°	6266.3	16.4
80°-90°	414.1	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°	38237.7	100.0
0°-180°	38237.7	100.0

Coefficient of Utilization

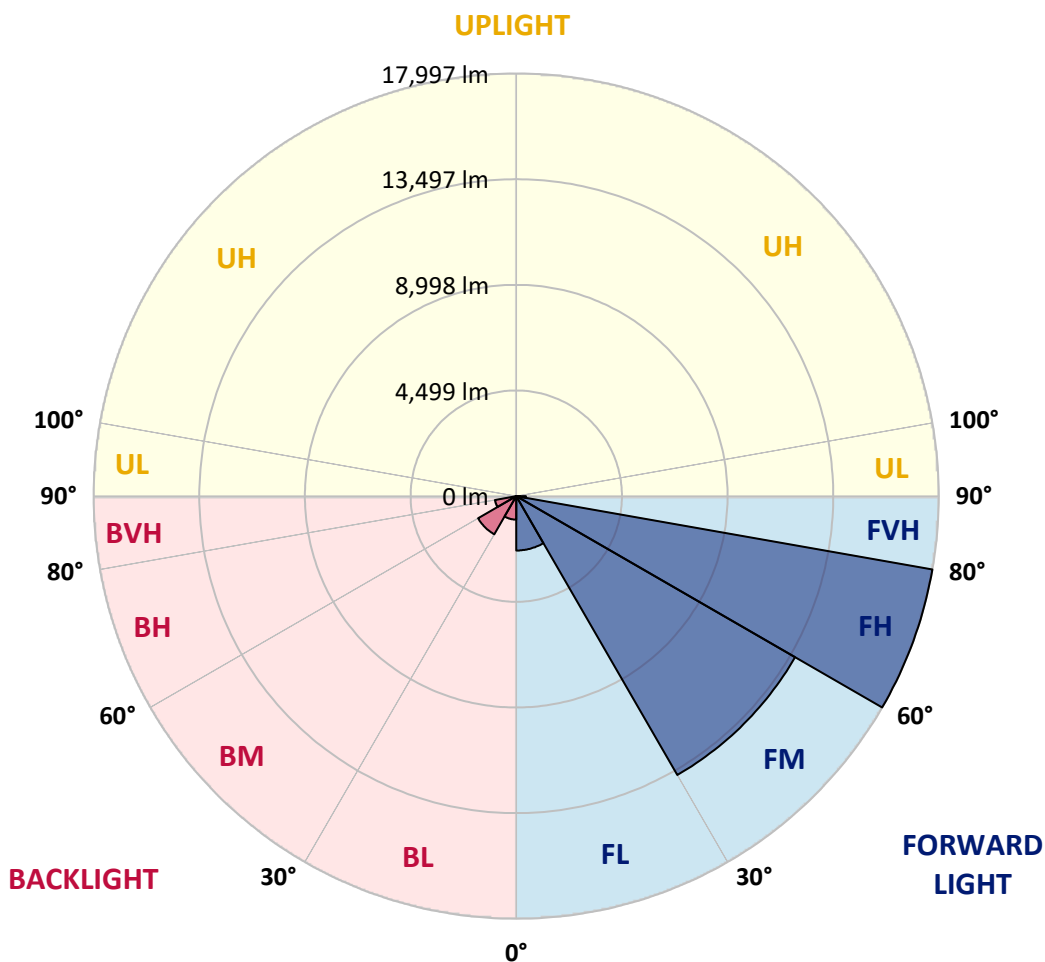


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2315.6	6.1			
FM (30°-60°)	13712.0	35.9			
FH (60°-80°)	17996.6	47.1			G5
FVH (80°-90°)	408.8	1.1			G3/500
BL (0°-30°)	999.6	2.6	B2/1000		
BM (30°-60°)	1878.4	4.9	B2/2500		
BH (60°-80°)	921.5	2.4	B2/1000		G2/1000
BVH (80°-90°)	5.3	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8
2.5°	4188.6	4161.1	4117.0	4100.5	4056.5	4034.5	4001.4	3984.9	3924.4	3863.8	3825.3
5°	4700.4	4634.4	4656.4	4590.4	4447.3	4331.7	4326.2	4199.6	4062.0	3951.9	3803.3
7.5°	5217.8	5162.8	5080.2	4986.7	4827.0	4656.4	4606.9	4485.8	4293.1	4100.5	3902.4
10°	5608.6	5570.1	5498.5	5366.4	5146.3	4953.6	4959.1	4755.5	4551.8	4331.7	4062.0
12.5°	5850.8	5867.3	5762.7	5630.6	5438.0	5195.8	5190.3	5052.7	4821.5	4590.4	4271.1
15°	6093.0	6153.5	5993.9	5839.8	5592.1	5416.0	5449.0	5283.9	5058.2	4794.0	4441.8
17.5°	6131.5	6148.0	6115.0	5889.3	5707.7	5559.1	5564.6	5454.5	5283.9	4997.7	4694.9
20°	6065.5	6054.4	6015.9	5850.8	5729.7	5641.6	5647.1	5619.6	5526.1	5294.9	4882.1
22.5°	5872.8	5872.8	5823.3	5713.2	5658.2	5740.7	5674.7	5779.2	5680.2	5542.6	5201.3
25°	5718.7	5779.2	5751.7	5680.2	5702.2	5812.3	5845.3	5944.4	5927.8	5757.2	5421.5
27.5°	5883.8	5812.3	5828.8	5746.2	5828.8	5993.9	6010.4	6082.0	6076.5	5938.9	5619.6
30°	5993.9	6059.9	5933.4	5751.7	5839.8	6120.5	6109.5	6203.1	6247.1	6082.0	5806.8
32.5°	6346.2	6291.1	6186.5	5944.4	5955.4	6115.0	6164.5	6285.6	6313.1	6214.1	5988.4
35°	7067.2	6984.6	6527.8	6164.5	6109.5	6186.5	6219.6	6456.2	6505.8	6395.7	6181.0
37.5°	8179.0	7991.9	7441.5	6637.9	6390.2	6373.7	6373.7	6687.4	6874.5	6621.4	6467.2
40°	9769.7	9505.5	8911.0	7513.0	6759.0	6825.0	6891.1	7061.7	7039.7	6874.5	6841.5
42.5°	11795.2	11591.5	10947.5	8982.6	7463.5	7133.2	7078.2	7309.4	7656.1	7590.1	7568.1
45°	13484.9	13495.9	13083.1	10997.1	8679.9	7843.3	7881.8	8057.9	8641.3	8591.8	8586.3
47.5°	14717.8	14563.7	14503.1	12940.0	10452.2	9191.7	9136.7	9257.8	10017.3	10331.1	10474.2
50°	15840.6	15736.0	15592.9	14827.9	12582.2	10881.5	10826.4	10837.5	11998.8	12439.1	12791.4
52.5°	17233.1	17365.2	16891.9	16424.1	15339.8	13077.6	13017.1	12802.4	14244.5	14849.9	15268.2
55°	18950.4	18702.7	18168.8	18411.0	17976.2	15449.8	15339.8	15086.6	16803.8	17057.0	17497.3
57.5°	19330.2	19143.0	19693.4	20552.1	20970.4	18234.9	18190.8	17734.0	18955.9	18724.7	19968.7
60°	20276.9	20326.4	21091.5	22797.7	23524.3	21449.2	21234.6	20431.0	21041.9	21086.0	22412.4
62.5°	21251.1	21135.5	22847.3	24487.5	25604.8	24493.0	24421.4	22825.2	23518.8	22957.3	24713.1
65°	20535.6	20711.7	23161.0	25907.5	28301.8	27470.7	27410.1	25131.4	25511.2	24812.2	25648.8
67.5°	17992.7	17634.9	21064.0	25258.0	29688.8	30591.4	30525.4	27646.8	26634.0	24801.2	23705.9
70°	13187.7	12879.4	15675.5	21388.7	27701.8	32187.6	32451.8	29397.1	26177.2	22489.5	18289.9
72.5°	6461.7	6467.2	8784.4	14503.1	21917.1	29336.5	29468.6	26953.3	22489.5	16578.2	10358.6
75°	1909.9	1931.9	3252.9	7111.2	14167.4	22280.3	22429.0	20458.5	15587.4	8564.3	3533.6
77.5°	699.0	699.0	1078.8	2669.5	7067.2	14062.8	14051.8	12560.2	7892.8	2900.6	825.6
80°	363.3	379.8	561.4	1089.8	3060.2	7325.9	7601.1	6148.0	2999.7	1221.9	242.2
82.5°	148.6	165.1	308.2	561.4	1469.6	2570.4	2812.6	2410.8	1304.5	853.1	110.1
85°	44.0	49.5	148.6	313.7	577.9	644.0	715.5	809.1	820.1	660.5	49.5
87.5°	5.5	5.5	60.5	104.6	126.6	137.6	159.6	159.6	418.3	462.3	27.5
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°	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8	3753.8
2.5°	3781.3	3753.8	3709.7	3610.6	3588.6	3517.1	3511.6	3445.5	3467.5	3423.5	3407.0
5°	3753.8	3693.2	3572.1	3495.1	3418.0	3368.5	3335.4	3307.9	3302.4	3280.4	3269.4
7.5°	3803.3	3720.7	3533.6	3412.5	3280.4	3236.4	3164.8	3159.3	3120.8	3082.3	3082.3
10°	3968.4	3819.8	3616.2	3412.5	3241.9	3098.8	2933.7	2812.6	2768.5	2669.5	2680.5
12.5°	4100.5	3968.4	3671.2	3462.0	3203.4	2878.6	2515.3	2234.6	2102.5	1975.9	2025.5
15°	4287.6	4095.0	3775.8	3473.0	3054.7	2493.3	1898.9	1585.2	1464.1	1436.6	1431.0
17.5°	4491.3	4287.6	3907.9	3445.5	2752.0	1926.4	1398.0	1216.4	1238.4	1271.4	1265.9
20°	4717.0	4469.3	4006.9	3352.0	2273.2	1398.0	1144.8	1139.3	1172.4	1221.9	1232.9
22.5°	4953.6	4739.0	4128.0	3071.3	1695.2	1122.8	1100.8	1100.8	1122.8	1183.4	1172.4
25°	5217.8	4931.6	4188.6	2636.4	1216.4	1034.8	1045.8	1067.8	1078.8	1128.3	1133.8
27.5°	5421.5	5146.3	4205.1	2113.6	990.7	957.7	985.2	1012.7	1029.3	1067.8	1084.3
30°	5608.6	5416.0	4117.0	1574.2	908.2	891.7	902.7	941.2	974.2	1007.2	1007.2
32.5°	5845.3	5570.1	3913.4	1117.3	858.6	831.1	825.6	842.1	880.6	919.2	919.2
35°	6087.5	5828.8	3588.6	897.2	814.6	776.1	754.1	737.5	754.1	781.6	803.6
37.5°	6439.7	6219.6	3181.3	825.6	781.6	726.5	682.5	644.0	616.5	610.9	627.5
40°	6940.6	6659.9	2658.5	776.1	743.0	677.0	610.9	544.9	484.4	445.8	451.3
42.5°	7700.1	7309.4	2091.5	748.5	715.5	622.0	528.4	434.8	357.8	319.2	319.2
45°	8784.4	8168.0	1535.6	721.0	682.5	555.9	434.8	324.7	247.7	225.7	231.2
47.5°	10419.1	9202.8	1100.8	677.0	638.5	484.4	341.3	231.2	181.6	170.6	176.1
50°	12554.7	10430.2	858.6	627.5	583.4	407.3	253.2	170.6	143.1	137.6	143.1
52.5°	14794.9	11668.6	754.1	583.4	500.9	324.7	187.1	137.6	121.1	115.6	121.1
55°	16710.3	12466.6	655.0	517.4	401.8	242.2	148.6	121.1	104.6	88.1	88.1
57.5°	18647.7	12868.4	517.4	429.3	297.2	181.6	126.6	104.6	88.1	71.6	66.0
60°	20221.8	13154.7	368.8	319.2	209.2	143.1	110.1	93.6	71.6	55.0	49.5
62.5°	21256.6	12334.6	269.7	242.2	154.1	121.1	93.6	77.1	55.0	38.5	38.5
65°	20744.7	11200.7	209.2	170.6	115.6	93.6	77.1	55.0	38.5	22.0	16.5
67.5°	18614.7	9125.7	170.6	126.6	88.1	71.6	60.5	44.0	22.0	5.5	5.5
70°	13886.7	6687.4	137.6	93.6	71.6	55.0	44.0	27.5	11.0	5.5	0.0
72.5°	7595.6	3660.2	110.1	77.1	55.0	44.0	33.0	22.0	11.0	0.0	0.0
75°	2509.8	974.2	82.6	55.0	33.0	27.5	22.0	16.5	5.5	0.0	0.0
77.5°	605.4	253.2	66.0	49.5	27.5	16.5	11.0	5.5	5.5	0.0	0.0
80°	187.1	104.6	49.5	33.0	22.0	16.5	5.5	0.0	0.0	0.0	0.0
82.5°	77.1	49.5	22.0	22.0	16.5	5.5	0.0	0.0	0.0	0.0	0.0
85°	38.5	27.5	16.5	11.0	11.0	5.5	0.0	0.0	0.0	0.0	0.0
87.5°	27.5	11.0	5.5	5.5	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)