

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: P483673

Luminaire Tested: **IFLD-S-SA6D-750-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483673
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-750-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34507.7 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

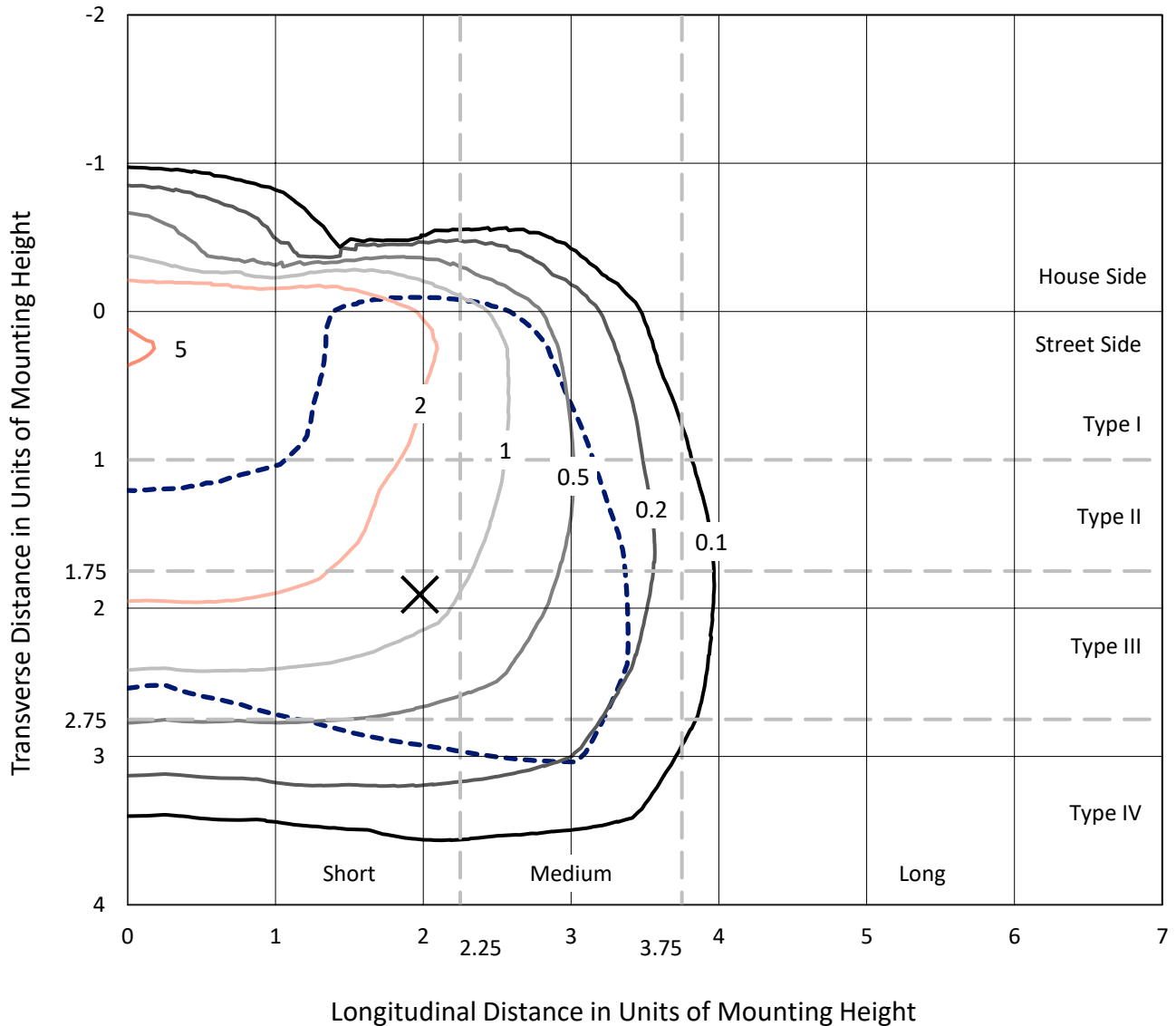
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

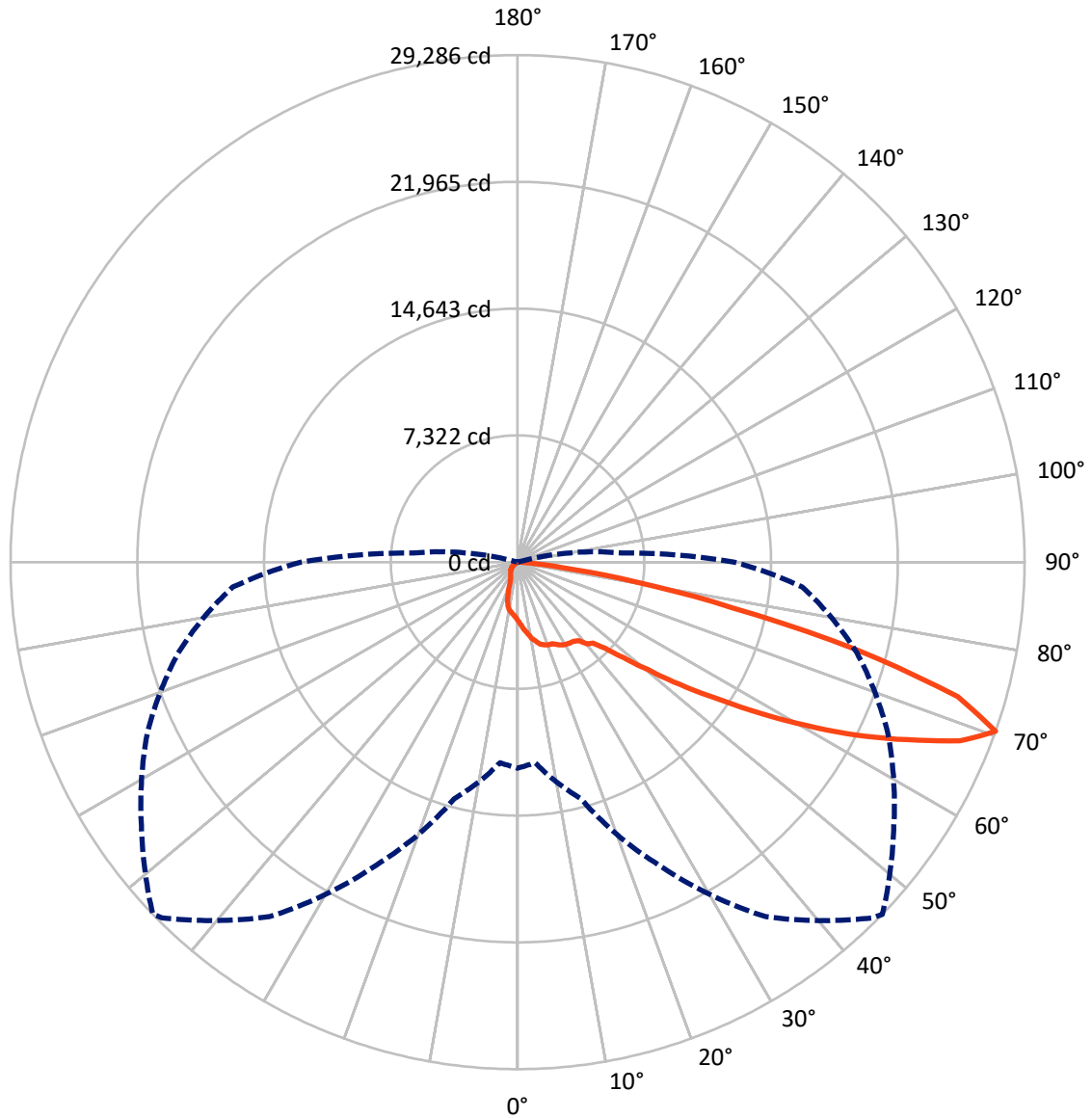
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 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	3433.6	0.0	3433.6
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	31074.1	0.0	31074.1
	% Fixture	90.0	0.0	90.0
Total	Lumens	34507.7	0.0	34507.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.8	1.0
10°-20°	1020.1	3.0
20°-30°	1633.9	4.7
30°-40°	2332.2	6.8
40°-50°	4027.1	11.7
50°-60°	7710.3	22.3
60°-70°	11417.7	33.1
70°-80°	5655.0	16.4
80°-90°	373.7	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°	34507.7	100.0
0°-180°	34507.7	100.0



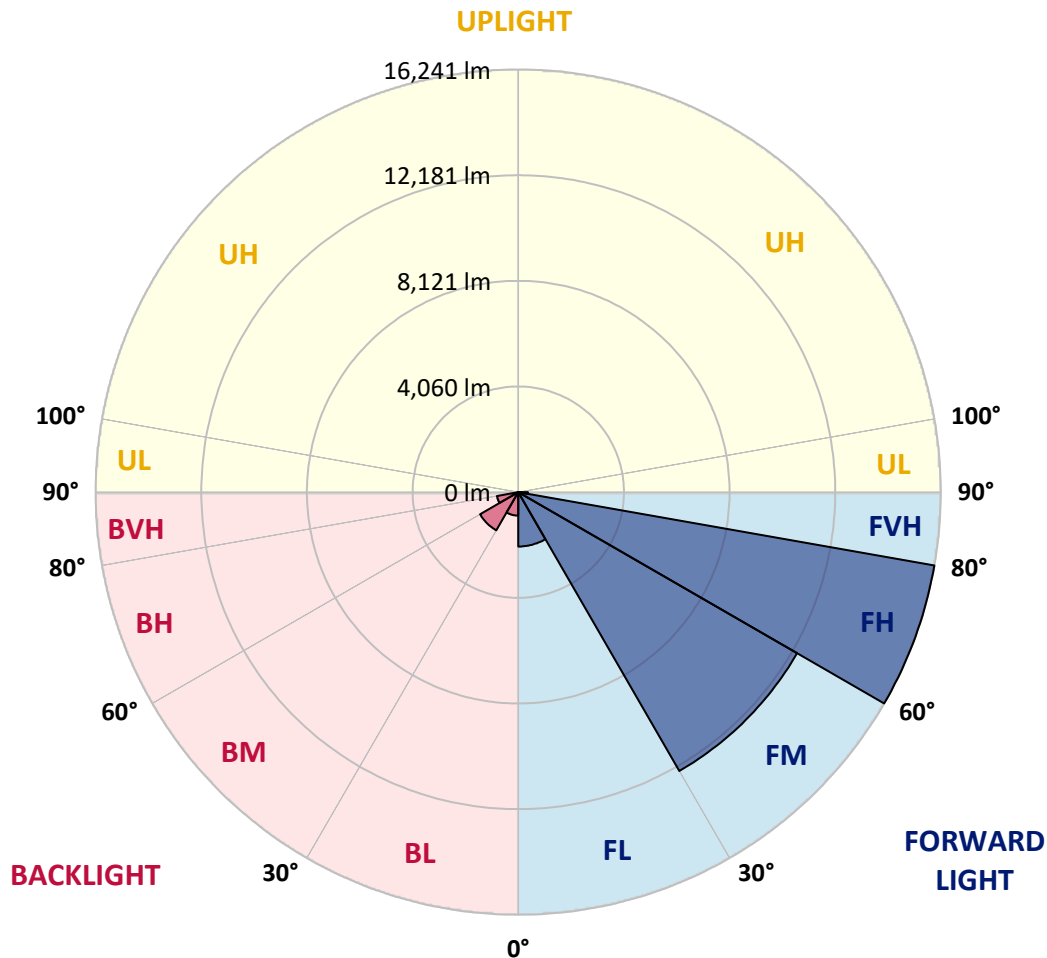
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2089.7	6.1			
FM	(30°-60°)	12374.4	35.9			
FH	(60°-80°)	16241.1	47.1			G5
FVH	(80°-90°)	368.9	1.1			G3/500
BL	(0°-30°)	902.1	2.6	B2/1000		
BM	(30°-60°)	1695.2	4.9	B2/2500		
BH	(60°-80°)	831.6	2.4	B2/1000		G2/1000
BVH	(80°-90°)	4.8	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°	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6
2.5°	3780.0	3755.2	3715.4	3700.5	3660.8	3640.9	3611.1	3596.2	3541.6	3486.9	3452.2
5°	4241.9	4182.3	4202.2	4142.6	4013.4	3909.1	3904.2	3789.9	3665.7	3566.4	3432.3
7.5°	4708.8	4659.2	4584.7	4500.2	4356.2	4202.2	4157.5	4048.2	3874.4	3700.5	3521.7
10°	5061.5	5026.7	4962.2	4843.0	4644.3	4470.4	4475.4	4291.6	4107.8	3909.1	3665.7
12.5°	5280.1	5295.0	5200.6	5081.4	4907.5	4689.0	4684.0	4559.8	4351.2	4142.6	3854.5
15°	5498.6	5553.3	5409.2	5270.1	5046.6	4887.7	4917.5	4768.4	4564.8	4326.4	4008.5
17.5°	5533.4	5548.3	5518.5	5314.8	5150.9	5016.8	5021.8	4922.4	4768.4	4510.2	4237.0
20°	5473.8	5463.8	5429.1	5280.1	5170.8	5091.3	5096.3	5071.4	4987.0	4778.4	4405.8
22.5°	5299.9	5299.9	5255.2	5155.9	5106.2	5180.7	5121.1	5215.5	5126.1	5001.9	4693.9
25°	5160.9	5215.5	5190.7	5126.1	5146.0	5245.3	5275.1	5364.5	5349.6	5195.6	4892.6
27.5°	5309.9	5245.3	5260.2	5185.7	5260.2	5409.2	5424.1	5488.7	5483.7	5359.5	5071.4
30°	5409.2	5468.8	5354.6	5190.7	5270.1	5523.5	5513.5	5598.0	5637.7	5488.7	5240.3
32.5°	5727.1	5677.4	5583.1	5364.5	5374.4	5518.5	5563.2	5672.5	5697.3	5607.9	5404.2
35°	6377.8	6303.3	5891.0	5563.2	5513.5	5583.1	5612.9	5826.4	5871.2	5771.8	5578.1
37.5°	7381.2	7212.3	6715.6	5990.4	5766.8	5751.9	5751.9	6035.1	6204.0	5975.5	5836.4
40°	8816.7	8578.2	8041.8	6780.1	6099.6	6159.2	6218.9	6372.8	6353.0	6204.0	6174.1
42.5°	10644.6	10460.8	9879.6	8106.4	6735.4	6437.4	6387.7	6596.4	6909.3	6849.7	6829.8
45°	12169.5	12179.4	11806.9	9924.3	7833.2	7078.2	7112.9	7271.9	7798.4	7753.7	7748.7
47.5°	13282.1	13143.0	13088.4	11677.7	9432.6	8295.1	8245.4	8354.7	9040.2	9323.3	9452.5
50°	14295.4	14201.0	14071.9	13381.5	11354.9	9820.0	9770.4	9780.3	10828.4	11225.7	11543.6
52.5°	15552.1	15671.3	15244.1	14821.9	13843.4	11801.9	11747.3	11553.6	12854.9	13401.3	13778.8
55°	17101.8	16878.3	16396.5	16615.1	16222.7	13942.7	13843.4	13614.9	15164.7	15393.1	15790.5
57.5°	17444.6	17275.7	17772.4	18547.3	18924.8	16456.1	16416.4	16004.1	17106.8	16898.2	18020.8
60°	18298.9	18343.6	19034.1	20573.9	21229.5	19356.9	19163.2	18438.0	18989.4	19029.1	20226.2
62.5°	19178.1	19073.8	20618.6	22098.8	23107.1	22103.7	22039.2	20598.7	21224.6	20717.9	22302.4
65°	18532.4	18691.3	20901.7	23380.3	25541.0	24791.0	24736.3	22679.9	23022.7	22391.8	23146.8
67.5°	16237.6	15914.7	19009.2	22794.2	26792.7	27607.3	27547.7	24949.9	24036.0	22381.9	21393.4
70°	11901.3	11623.1	14146.4	19302.3	24999.6	29047.8	29286.2	26529.5	23623.7	20295.7	16505.8
72.5°	5831.4	5836.4	7927.5	13088.4	19779.1	26474.8	26594.0	24324.1	20295.7	14961.0	9348.1
75°	1723.6	1743.5	2935.6	6417.5	12785.4	20107.0	20241.1	18462.8	14066.9	7728.9	3188.9
77.5°	630.8	630.8	973.6	2409.1	6377.8	12691.0	12681.1	11335.0	7122.9	2617.7	745.1
80°	327.8	342.7	506.6	983.5	2761.7	6611.3	6859.6	5548.3	2707.1	1102.7	218.6
82.5°	134.1	149.0	278.2	506.6	1326.2	2319.7	2538.2	2175.6	1177.2	769.9	99.3
85°	39.7	44.7	134.1	283.1	521.5	581.2	645.7	730.2	740.1	596.1	44.7
87.5°	5.0	5.0	54.6	94.4	114.2	124.2	144.0	144.0	377.5	417.2	24.8
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°	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6	3387.6
2.5°	3412.4	3387.6	3347.8	3258.4	3238.6	3174.0	3169.0	3109.4	3129.3	3089.6	3074.7
5°	3387.6	3332.9	3223.7	3154.1	3084.6	3039.9	3010.1	2985.2	2980.3	2960.4	2950.5
7.5°	3432.3	3357.8	3188.9	3079.6	2960.4	2920.7	2856.1	2851.1	2816.4	2781.6	2781.6
10°	3581.3	3447.2	3263.4	3079.6	2925.6	2796.5	2647.5	2538.2	2498.5	2409.1	2419.0
12.5°	3700.5	3581.3	3313.1	3124.3	2890.9	2597.8	2270.0	2016.7	1897.4	1783.2	1827.9
15°	3869.4	3695.5	3407.5	3134.3	2756.8	2250.1	1713.7	1430.5	1321.3	1296.4	1291.5
17.5°	4053.2	3869.4	3526.7	3109.4	2483.6	1738.5	1261.7	1097.7	1117.6	1147.4	1142.4
20°	4256.8	4033.3	3616.1	3025.0	2051.4	1261.7	1033.2	1028.2	1058.0	1102.7	1112.6
22.5°	4470.4	4276.7	3725.4	2771.7	1529.9	1013.3	993.4	993.4	1013.3	1067.9	1058.0
25°	4708.8	4450.6	3780.0	2379.3	1097.7	933.8	943.8	963.6	973.6	1018.3	1023.2
27.5°	4892.6	4644.3	3794.9	1907.4	894.1	864.3	889.1	914.0	928.9	963.6	978.5
30°	5061.5	4887.7	3715.4	1420.6	819.6	804.7	814.6	849.4	879.2	909.0	909.0
32.5°	5275.1	5026.7	3531.6	1008.3	774.9	750.0	745.1	760.0	794.7	829.5	829.5
35°	5493.7	5260.2	3238.6	809.6	735.1	700.4	680.5	665.6	680.5	705.3	725.2
37.5°	5811.5	5612.9	2871.0	745.1	705.3	655.7	615.9	581.2	556.3	551.4	566.3
40°	6263.6	6010.2	2399.1	700.4	670.6	611.0	551.4	491.7	437.1	402.3	407.3
42.5°	6949.0	6596.4	1887.5	675.5	645.7	561.3	476.8	392.4	322.9	288.1	288.1
45°	7927.5	7371.2	1385.8	650.7	615.9	501.7	392.4	293.1	223.5	203.7	208.6
47.5°	9402.8	8305.0	993.4	611.0	576.2	437.1	308.0	208.6	163.9	154.0	158.9
50°	11330.0	9412.7	774.9	566.3	526.5	367.6	228.5	154.0	129.1	124.2	129.1
52.5°	13351.7	10530.3	680.5	526.5	452.0	293.1	168.9	124.2	109.3	104.3	109.3
55°	15080.2	11250.6	591.1	466.9	362.6	218.6	134.1	109.3	94.4	79.5	79.5
57.5°	16828.7	11613.2	466.9	387.4	268.2	163.9	114.2	94.4	79.5	64.6	59.6
60°	18249.3	11871.5	332.8	288.1	188.8	129.1	99.3	84.4	64.6	49.7	44.7
62.5°	19183.1	11131.3	243.4	218.6	139.1	109.3	84.4	69.5	49.7	34.8	34.8
65°	18721.1	10108.1	188.8	154.0	104.3	84.4	69.5	49.7	34.8	19.9	14.9
67.5°	16798.8	8235.5	154.0	114.2	79.5	64.6	54.6	39.7	19.9	5.0	5.0
70°	12532.1	6035.1	124.2	84.4	64.6	49.7	39.7	24.8	9.9	5.0	0.0
72.5°	6854.6	3303.1	99.3	69.5	49.7	39.7	29.8	19.9	9.9	0.0	0.0
75°	2265.0	879.2	74.5	49.7	29.8	24.8	19.9	14.9	5.0	0.0	0.0
77.5°	546.4	228.5	59.6	44.7	24.8	14.9	9.9	5.0	5.0	0.0	0.0
80°	168.9	94.4	44.7	29.8	19.9	14.9	5.0	0.0	0.0	0.0	0.0
82.5°	69.5	44.7	19.9	19.9	14.9	5.0	0.0	0.0	0.0	0.0	0.0
85°	34.8	24.8	14.9	9.9	9.9	5.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.8	9.9	5.0	5.0	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)