

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: P484383

Luminaire Tested: **IFLD-L-SA7B-735-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484383
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-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

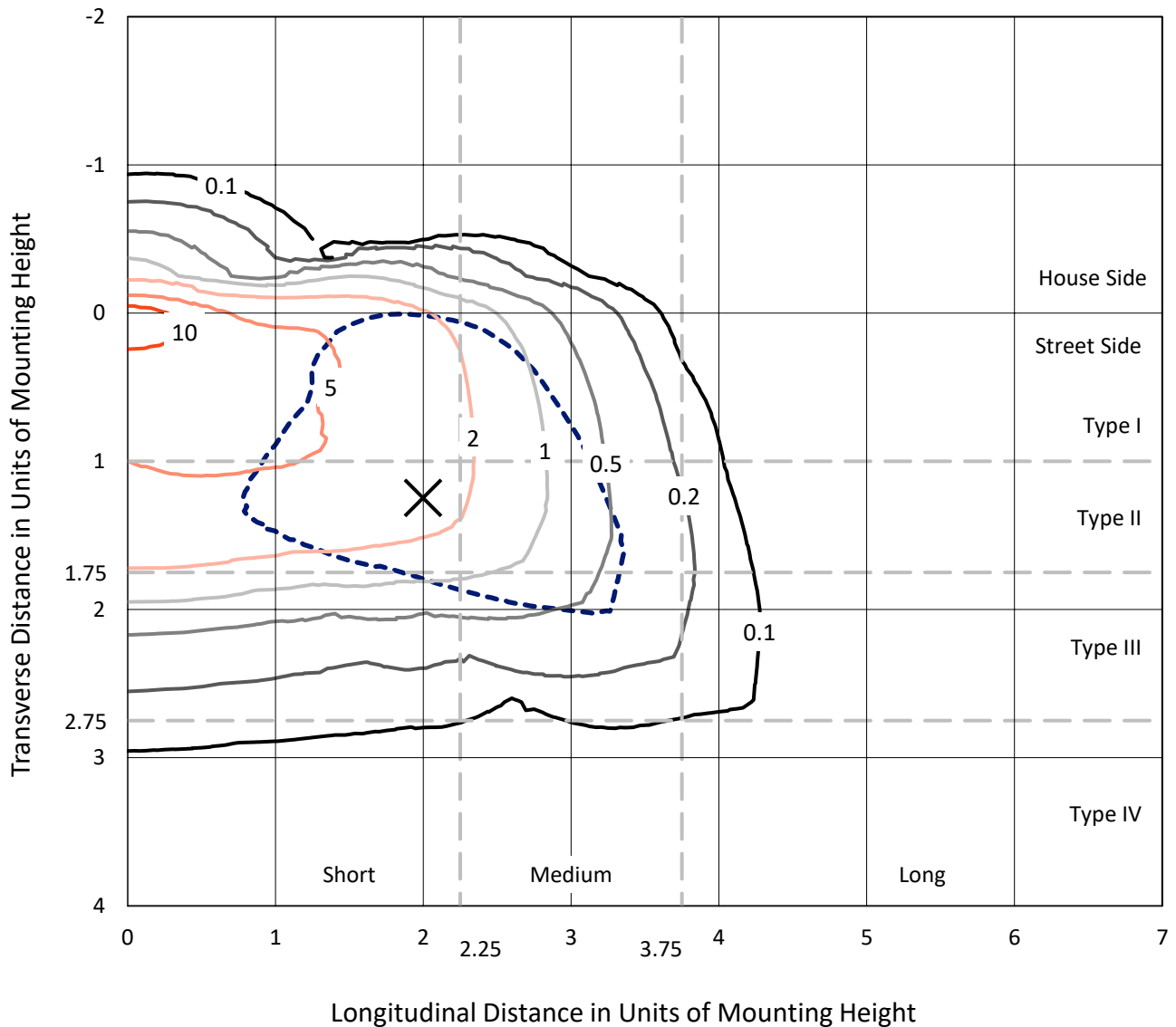
Lumens per Lamp: N/A
Luminaire Lumens: 29374.2 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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

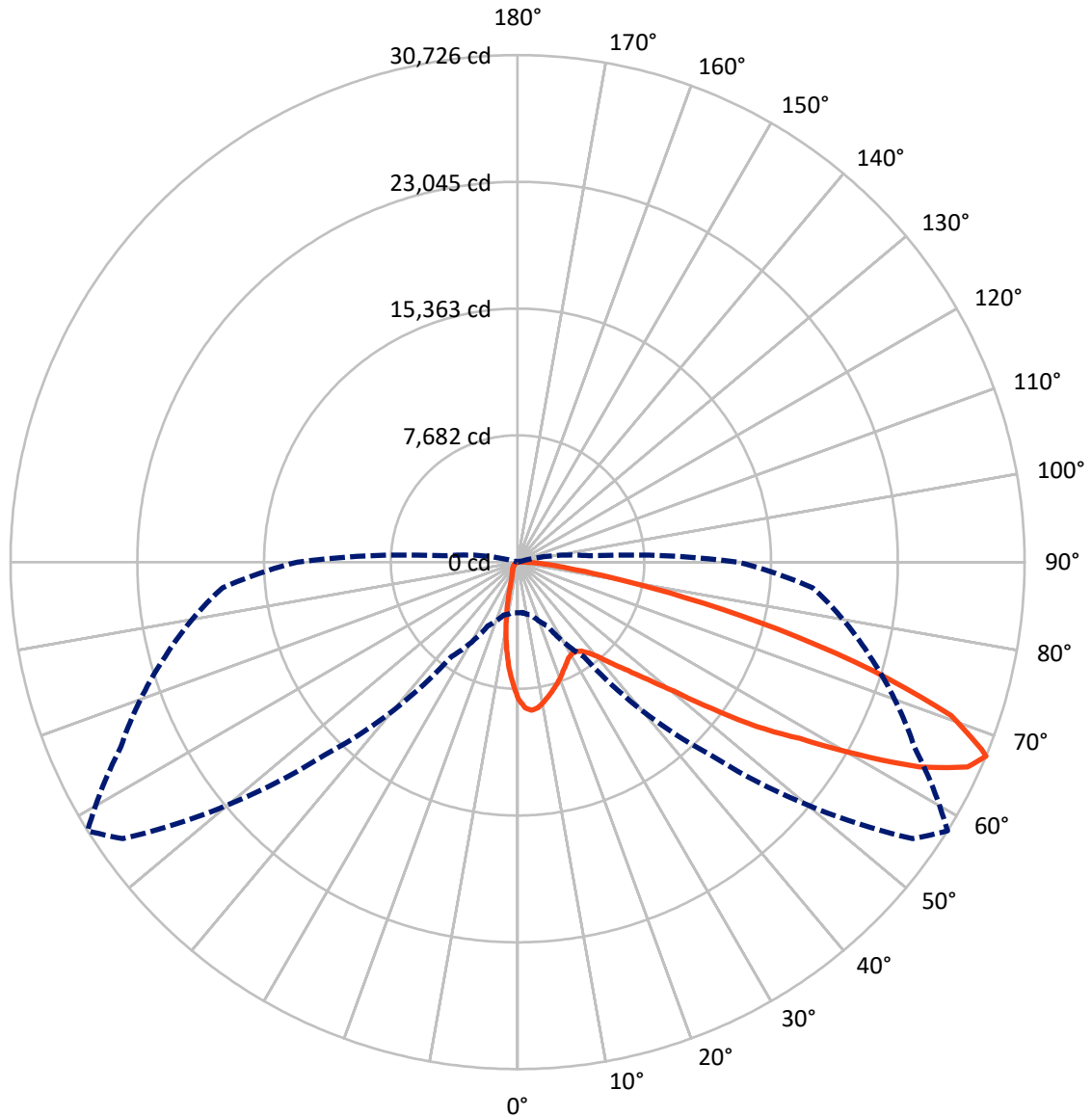
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2428.0	0.0	2428.0
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	26946.2	0.0	26946.2
	% Fixture	91.7	0.0	91.7
Total	Lumens	29374.2	0.0	29374.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.3	2.2
10°-20°	1369.6	4.7
20°-30°	1817.2	6.2
30°-40°	2518.1	8.6
40°-50°	4108.7	14.0
50°-60°	7221.9	24.6
60°-70°	7998.8	27.2
70°-80°	3314.7	11.3
80°-90°	364.9	1.2
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°	29374.2	100.0
0°-180°	29374.2	100.0



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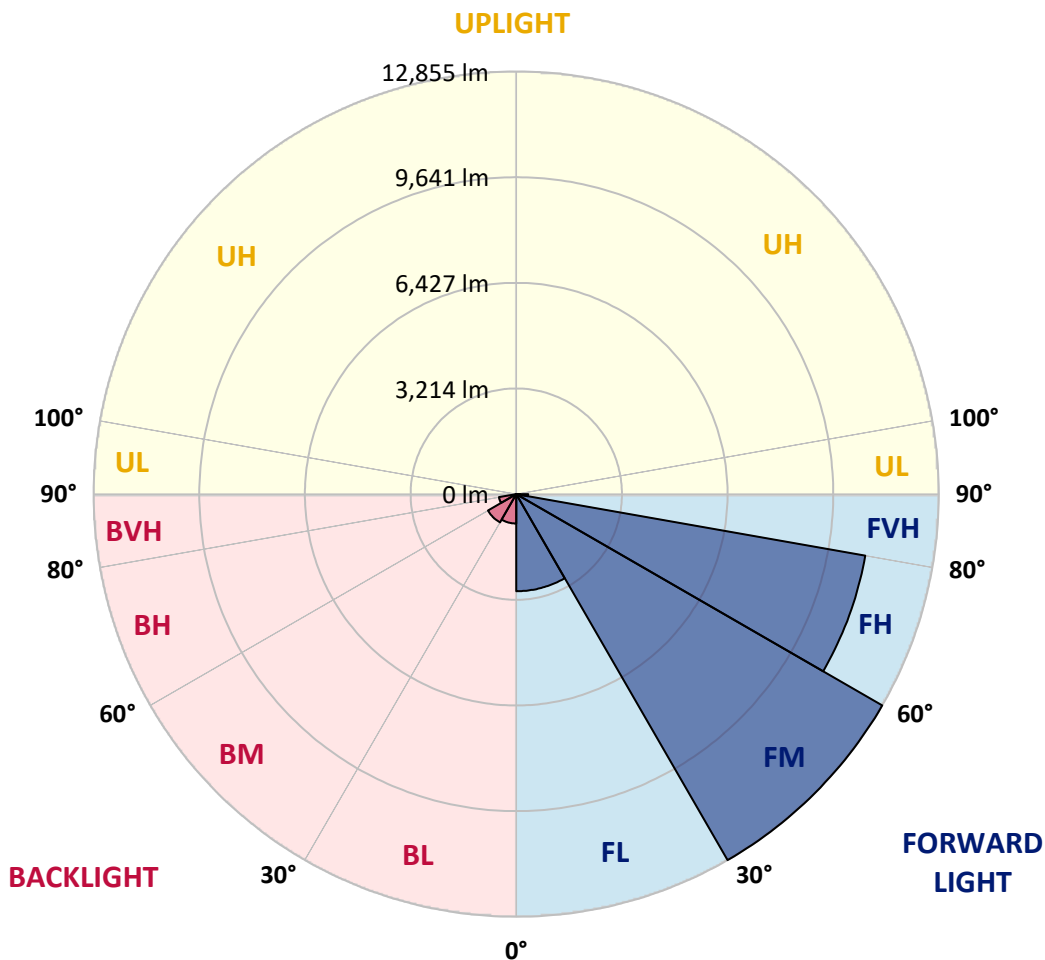
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2952.9	10.1			
FM	(30°-60°)	12854.7	43.8			
FH	(60°-80°)	10779.7	36.7			G4/12000
FVH	(80°-90°)	358.9	1.2			G3/500
BL	(0°-30°)	894.2	3.0	B2/1000		
BM	(30°-60°)	993.9	3.4	B1/1000		
BH	(60°-80°)	533.8	1.8	B2/1000		G2/1000
BVH	(80°-90°)	6.0	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8322.1	8322.1	8322.1	8322.1	8322.1	8322.1	8322.1	8322.1	8322.1	8322.1	8322.1
2.5°	9055.3	9086.5	9113.8	9063.1	9106.0	9043.6	8883.7	8848.6	8821.3	8583.4	8446.9
5°	9051.4	9016.3	9043.6	9067.0	9008.5	9055.3	9016.3	9020.2	8914.9	8700.4	8318.2
7.5°	8446.9	8431.3	8446.9	8560.0	8688.7	8790.1	8848.6	8907.1	8836.9	8517.1	8146.6
10°	7631.9	7709.8	7752.7	7955.5	8154.4	8341.6	8524.9	8634.1	8614.6	8485.9	7959.4
12.5°	7062.5	7039.1	7195.1	7327.7	7526.6	7904.8	8224.6	8326.0	8443.0	8263.6	7713.7
15°	6536.0	6473.6	6567.2	6797.3	7136.6	7436.9	7885.3	8037.4	8185.6	8232.4	7581.2
17.5°	6032.9	6064.1	6161.6	6368.3	6688.1	7109.3	7530.5	7748.8	8103.7	8041.3	7382.3
20°	5791.2	5857.5	5892.6	5997.8	6220.1	6641.3	7269.2	7444.7	7822.9	8037.4	7187.3
22.5°	5802.9	5802.9	5721.0	5783.4	5986.1	6313.7	6914.3	7109.3	7709.8	7834.6	7011.8
25°	5927.7	5849.7	5853.6	5779.5	5865.3	6044.6	6594.5	6832.4	7479.8	7854.1	6918.2
27.5°	6021.2	6005.6	5982.2	5962.7	5853.6	5880.9	6383.9	6578.9	7390.1	7830.7	6773.9
30°	6360.5	6290.3	6266.9	6224.0	6079.7	5947.2	6216.2	6461.9	7319.9	7885.3	6692.0
32.5°	6645.2	6656.9	6676.4	6551.6	6426.8	6099.2	6263.0	6458.0	7269.2	8010.1	6773.9
35°	7004.0	7054.7	7062.5	7023.5	6890.9	6567.2	6458.0	6625.7	7355.0	8232.4	6781.7
37.5°	7550.0	7495.4	7643.6	7659.1	7565.6	7136.6	6910.4	6976.7	7608.5	8587.3	7078.1
40°	7904.8	7971.1	8248.0	8419.6	8259.7	7869.7	7565.6	7553.9	7975.0	9145.0	7444.7
42.5°	8298.7	8446.9	8751.1	9121.6	9102.1	8739.4	8431.3	8380.6	8626.3	9952.2	8025.7
45°	8836.9	8969.5	9394.5	9952.2	10256.4	9948.3	9484.2	9382.8	9417.9	11051.9	9016.3
47.5°	9729.9	9694.8	10307.1	10857.0	11356.1	11118.2	10919.4	10623.0	10595.7	12346.7	10385.1
50°	10740.0	10732.2	11278.1	11902.1	12479.3	12943.3	12611.9	12288.2	12296.0	14105.5	11995.7
52.5°	11699.3	11851.4	12440.3	13060.3	14050.9	14550.0	14869.8	14741.1	14121.1	15677.1	13719.4
55°	12206.3	12338.9	12923.8	13992.4	15556.2	16839.2	17705.0	17595.8	16398.5	17447.6	15419.7
57.5°	11726.6	11816.3	12608.0	14008.0	16609.1	19471.6	20302.2	20165.7	18754.0	18800.8	17474.9
60°	9718.2	9858.6	11036.4	12678.2	16199.6	21499.4	23878.3	23671.6	20898.9	20512.8	18796.9
62.5°	6731.0	6824.6	7791.7	9835.2	14257.6	22205.3	27255.5	27368.6	23160.7	21846.5	19190.8
65°	4359.9	4352.1	4905.9	6290.3	10104.3	20068.2	29252.2	29954.1	25344.6	22049.3	19069.9
67°	3080.8	3069.1	3330.4	4266.3	6996.2	16535.0	29217.1	30726.3	26530.1	22107.8	17950.6
67.5°	2842.9	2831.2	3080.8	3923.2	6313.7	15376.8	28780.3	30328.5	26947.4	22025.9	17459.3
70°	2207.3	2176.1	2269.7	2702.5	3677.5	9944.4	24631.0	27860.0	26081.7	19982.4	13941.7
72.5°	1595.0	1630.1	1778.3	2219.0	2885.8	5350.5	18773.5	22529.0	21784.1	15060.9	8860.3
75°	1111.4	1142.6	1380.5	1809.5	2647.9	3244.6	12693.8	16340.0	15174.0	8314.3	3775.0
77.5°	581.1	620.1	881.3	1446.8	2406.2	2511.5	7585.1	10361.7	8041.3	2959.9	1041.2
80°	269.1	288.6	440.7	1025.6	2012.3	2207.3	4422.3	5763.9	3217.3	663.0	358.8
82.5°	117.0	128.7	202.8	588.9	1427.3	1930.4	2737.6	3022.3	1166.0	214.5	222.3
85°	23.4	27.3	78.0	312.0	690.3	1169.9	1922.6	1793.9	585.0	105.3	175.5
87.5°	0.0	0.0	19.5	89.7	187.2	347.1	815.1	815.1	179.4	54.6	66.3
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°	8322.1	8322.1	8322.1	8322.1	8322.1	8322.1	8322.1	8322.1	8322.1	8322.1	8322.1
2.5°	8326.0	8185.6	7877.5	7592.9	7390.1	7160.0	6855.8	6719.3	6668.6	6598.4	6493.1
5°	8107.6	7936.0	7409.6	6879.2	6298.1	5857.5	5389.5	5116.5	4909.8	4781.1	4738.2
7.5°	7799.5	7448.6	6738.8	5888.7	5136.0	4480.8	3771.1	3291.4	2983.3	2858.5	2741.5
10°	7553.9	7097.6	6017.3	4960.5	3958.3	2998.9	2199.5	1778.3	1458.5	1337.6	1322.0
12.5°	7234.1	6688.1	5342.7	4012.9	2753.2	1786.1	1216.7	1056.8	967.1	951.5	939.8
15°	6968.9	6317.6	4703.1	3108.1	1782.2	1115.3	947.6	908.6	885.2	877.4	881.3
17.5°	6789.5	5919.9	4048.0	2261.9	1173.8	912.5	873.5	850.1	838.5	834.6	822.9
20°	6434.6	5584.5	3400.6	1583.3	916.4	842.4	811.2	791.7	780.0	776.1	772.2
22.5°	6231.8	5159.4	2753.2	1103.6	815.1	764.4	741.0	725.4	705.9	694.2	690.3
25°	6029.0	4847.4	2176.1	857.9	741.0	705.9	670.8	651.3	620.1	604.5	600.6
27.5°	5791.2	4539.3	1676.9	744.9	666.9	631.8	596.7	565.5	526.5	510.9	503.1
30°	5654.7	4239.1	1263.5	666.9	612.3	565.5	522.6	483.6	440.7	413.4	405.6
32.5°	5584.5	3966.1	947.6	608.4	553.8	503.1	448.5	401.7	362.7	339.3	335.4
35°	5498.7	3700.9	744.9	553.8	499.2	444.6	390.0	343.2	304.2	284.7	276.9
37.5°	5588.4	3544.9	620.1	510.9	456.3	393.9	335.4	288.6	257.4	237.9	234.0
40°	5834.1	3416.2	538.2	471.9	413.4	347.1	292.5	245.7	218.4	202.8	195.0
42.5°	6212.3	3416.2	487.5	432.9	374.4	304.2	249.6	214.5	187.2	171.6	167.7
45°	6898.7	3521.5	444.6	393.9	327.6	261.3	214.5	179.4	152.1	136.5	132.6
47.5°	7861.9	3763.3	409.5	358.8	292.5	230.1	187.2	152.1	124.8	109.2	105.3
50°	9156.7	4313.1	374.4	315.9	261.3	198.9	156.0	120.9	97.5	81.9	78.0
52.5°	10771.2	5093.1	339.3	292.5	222.3	167.7	124.8	97.5	74.1	62.4	58.5
55°	12479.3	6048.5	296.4	261.3	191.1	140.4	101.4	74.1	54.6	46.8	42.9
57.5°	14199.1	6785.6	261.3	226.2	156.0	113.1	81.9	58.5	39.0	31.2	27.3
60°	15111.6	6855.8	226.2	187.2	124.8	89.7	62.4	42.9	27.3	19.5	15.6
62.5°	15252.0	6231.8	195.0	152.1	101.4	70.2	42.9	31.2	15.6	7.8	7.8
65°	14530.5	5194.5	167.7	120.9	78.0	50.7	31.2	19.5	7.8	3.9	0.0
67°	13360.6	4352.1	144.3	101.4	62.4	39.0	23.4	11.7	3.9	0.0	0.0
67.5°	12908.2	4118.2	136.5	93.6	58.5	35.1	19.5	11.7	3.9	0.0	0.0
70°	10018.5	2940.4	101.4	66.3	42.9	27.3	15.6	7.8	0.0	0.0	0.0
72.5°	6138.2	1719.8	78.0	46.8	31.2	19.5	11.7	3.9	0.0	0.0	0.0
75°	2573.8	592.8	66.3	35.1	23.4	11.7	7.8	3.9	0.0	0.0	0.0
77.5°	670.8	222.3	46.8	23.4	15.6	11.7	7.8	3.9	0.0	0.0	0.0
80°	273.0	101.4	31.2	15.6	15.6	11.7	7.8	3.9	0.0	0.0	0.0
82.5°	179.4	46.8	19.5	15.6	11.7	7.8	3.9	0.0	0.0	0.0	0.0
85°	136.5	27.3	11.7	11.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	58.5	15.6	11.7	7.8	7.8	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)