

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: P484422

Luminaire Tested: **IFLD-L-SA7B-740-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484422
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-740-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

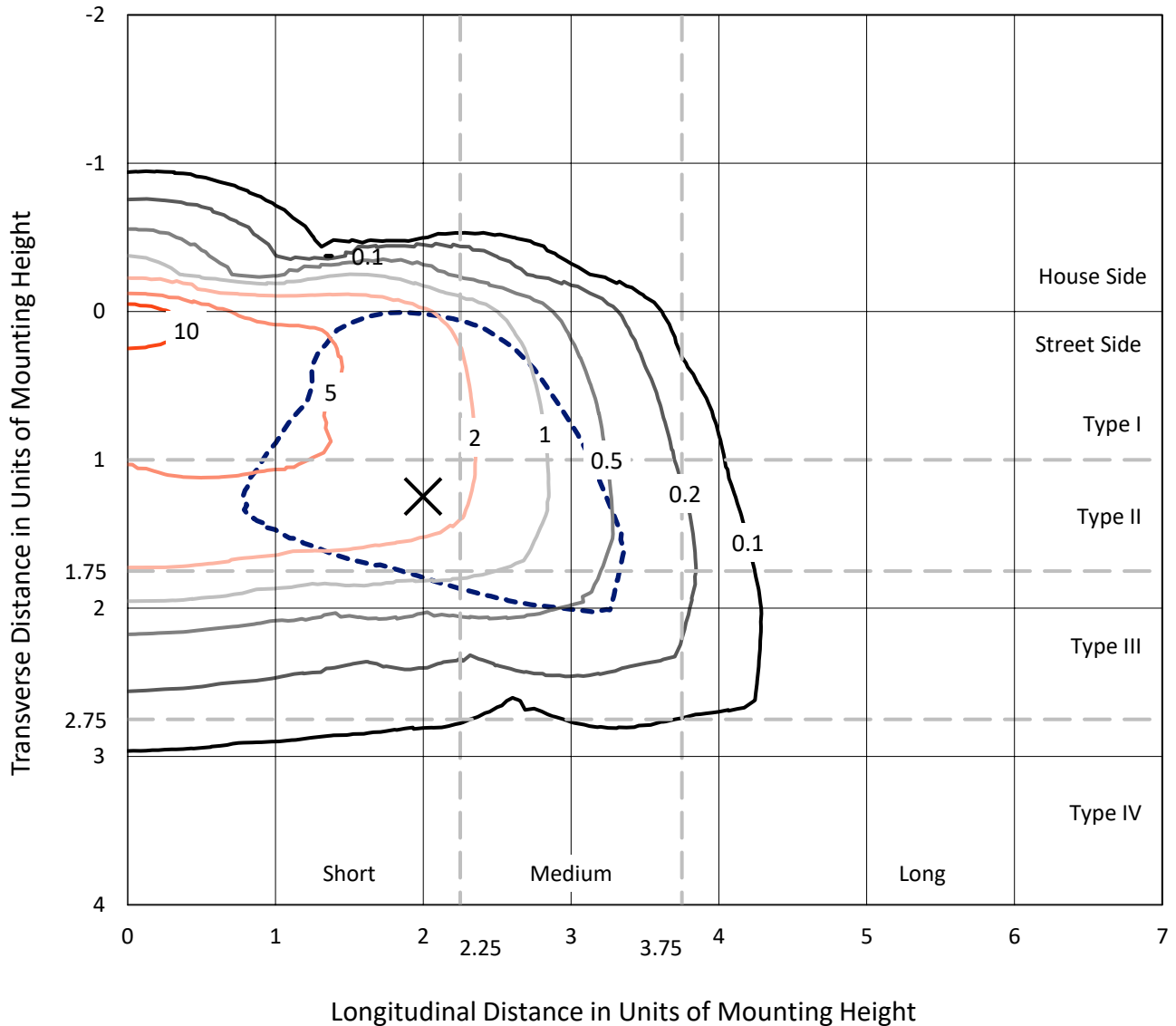
Lumens per Lamp: N/A
Luminaire Lumens: 29782.2 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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

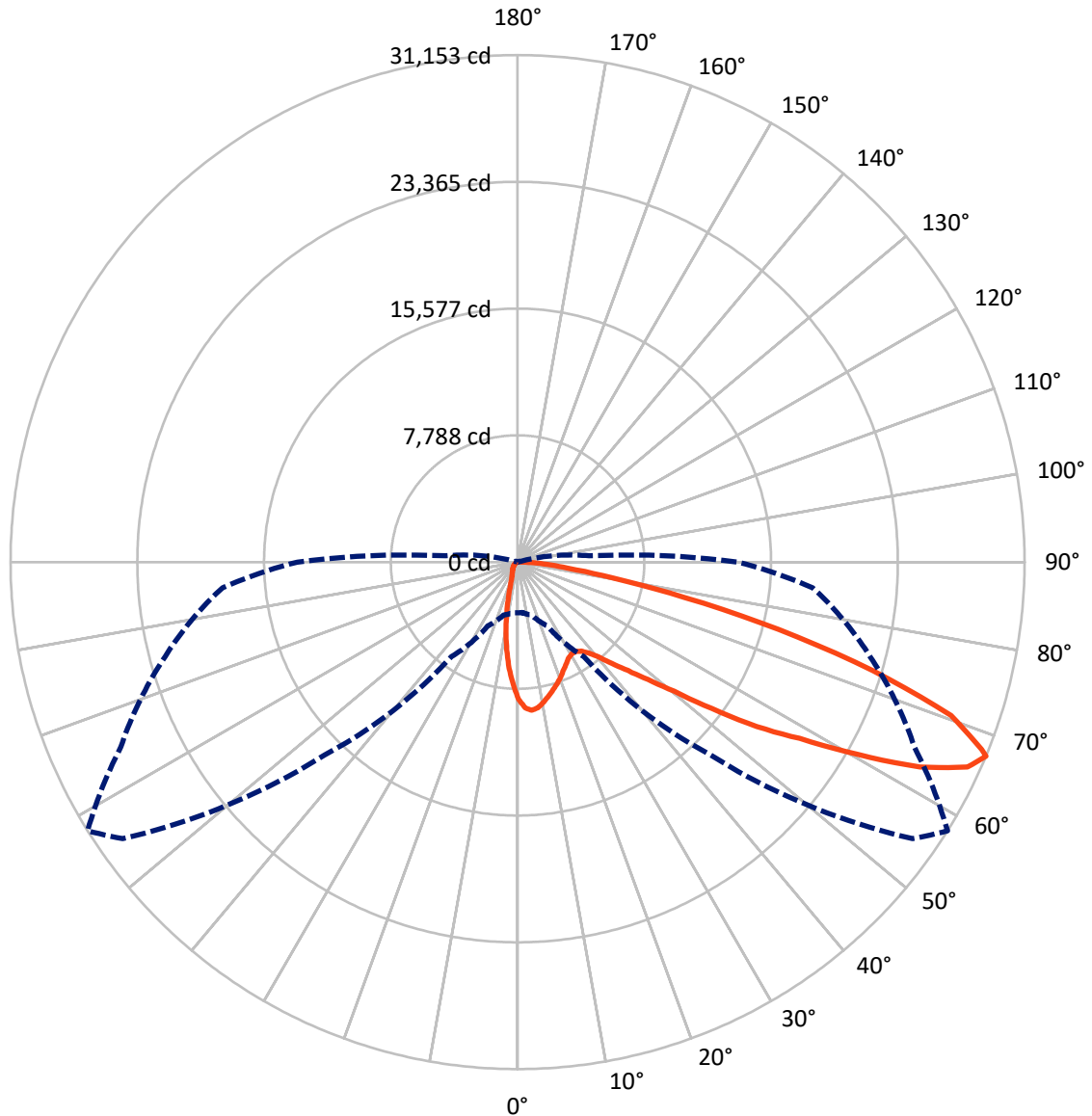
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	2461.7	0.0	2461.7
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	27320.5	0.0	27320.5
	% Fixture	91.7	0.0	91.7
Total	Lumens	29782.2	0.0	29782.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.5	2.2
10°-20°	1388.7	4.7
20°-30°	1842.4	6.2
30°-40°	2553.0	8.6
40°-50°	4165.8	14.0
50°-60°	7322.2	24.6
60°-70°	8109.9	27.2
70°-80°	3360.7	11.3
80°-90°	370.0	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°	29782.2	100.0
0°-180°	29782.2	100.0

Coefficient of Utilization



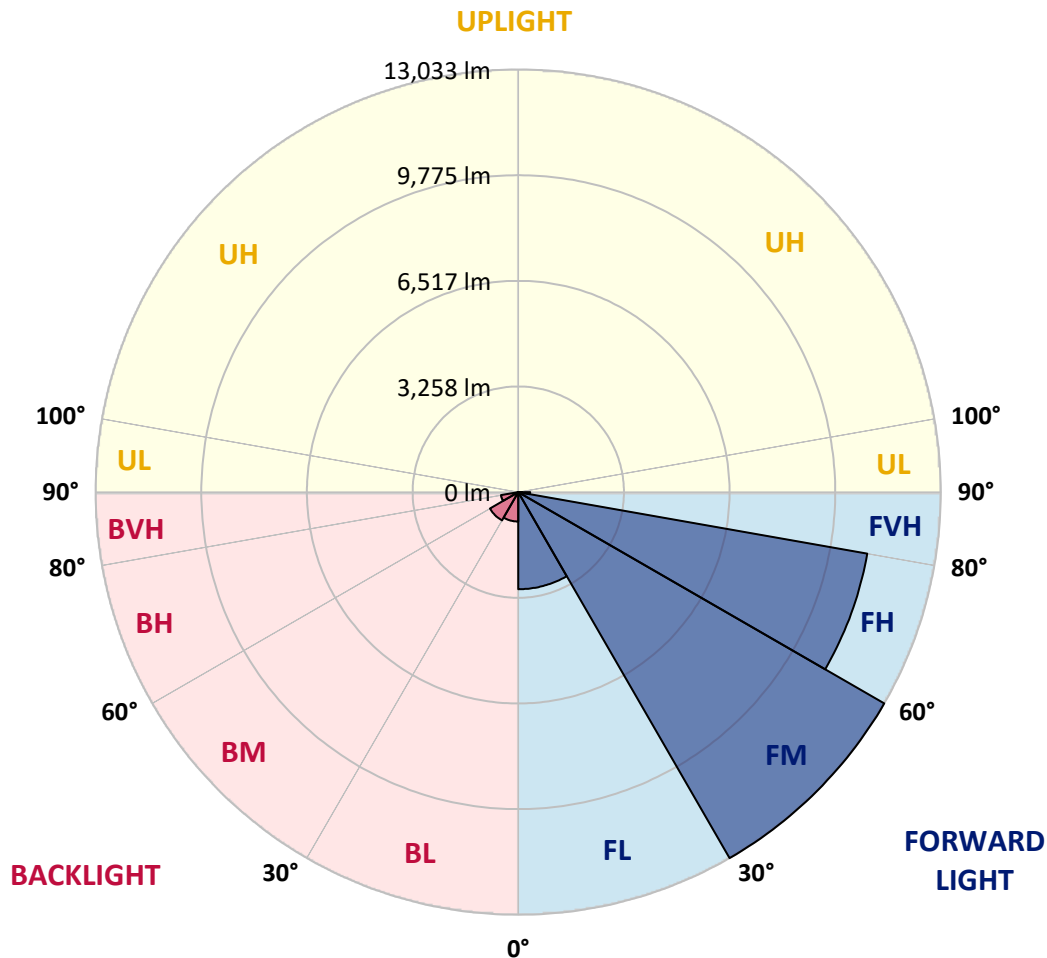
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2993.9	10.1			
FM (30°-60°)	13033.3	43.8			
FH (60°-80°)	10929.4	36.7			G4/12000
FVH (80°-90°)	363.9	1.2			G3/500
BL (0°-30°)	906.7	3.0	B2/1000		
BM (30°-60°)	1007.7	3.4	B2/2500		
BH (60°-80°)	541.2	1.8	B2/1000		G2/1000
BVH (80°-90°)	6.1	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°	8437.7	8437.7	8437.7	8437.7	8437.7	8437.7	8437.7	8437.7	8437.7	8437.7	8437.7
2.5°	9181.0	9212.7	9240.4	9189.0	9232.4	9169.2	9007.1	8971.5	8943.8	8702.6	8564.2
5°	9177.1	9141.5	9169.2	9192.9	9133.6	9181.0	9141.5	9145.5	9038.7	8821.2	8433.8
7.5°	8564.2	8548.4	8564.2	8678.9	8809.4	8912.2	8971.5	9030.8	8959.6	8635.4	8259.8
10°	7737.9	7816.9	7860.4	8066.0	8267.7	8457.5	8643.3	8754.0	8734.3	8603.8	8070.0
12.5°	7160.6	7136.9	7295.0	7429.5	7631.1	8014.6	8338.9	8441.7	8560.3	8378.4	7820.9
15°	6626.8	6563.5	6658.4	6891.7	7235.7	7540.2	7994.9	8149.1	8299.3	8346.8	7686.5
17.5°	6116.7	6148.4	6247.2	6456.8	6781.0	7208.0	7635.1	7856.5	8216.3	8153.0	7484.8
20°	5871.6	5938.8	5974.4	6081.2	6306.5	6733.6	7370.1	7548.1	7931.6	8149.1	7287.1
22.5°	5883.5	5883.5	5800.4	5863.7	6069.3	6401.4	7010.3	7208.0	7816.9	7943.5	7109.2
25°	6010.0	5930.9	5934.9	5859.7	5946.7	6128.6	6686.1	6927.3	7583.7	7963.2	7014.3
27.5°	6104.9	6089.1	6065.3	6045.6	5934.9	5962.5	6472.6	6670.3	7492.7	7939.5	6868.0
30°	6448.9	6377.7	6354.0	6310.5	6164.2	6029.8	6302.6	6551.7	7421.5	7994.9	6785.0
32.5°	6737.5	6749.4	6769.1	6642.6	6516.1	6184.0	6350.0	6547.7	7370.1	8121.4	6868.0
35°	7101.3	7152.7	7160.6	7121.0	6986.6	6658.4	6547.7	6717.7	7457.1	8346.8	6875.9
37.5°	7654.8	7599.5	7749.7	7765.5	7670.6	7235.7	7006.4	7073.6	7714.1	8706.6	7176.4
40°	8014.6	8081.9	8362.6	8536.6	8374.4	7979.1	7670.6	7658.8	8085.8	9272.0	7548.1
42.5°	8414.0	8564.2	8872.6	9248.3	9228.5	8860.8	8548.4	8497.0	8746.1	10090.5	8137.2
45°	8959.6	9094.1	9525.0	10090.5	10398.9	10086.5	9616.0	9513.2	9548.8	11205.5	9141.5
47.5°	9865.1	9829.5	10450.3	11007.8	11513.9	11272.7	11071.0	10770.5	10742.9	12518.2	10529.3
50°	10889.1	10881.2	11434.8	12067.4	12652.6	13123.1	12787.0	12458.9	12466.8	14301.4	12162.3
52.5°	11861.8	12016.0	12613.1	13241.7	14246.0	14752.1	15076.4	14945.9	14317.2	15894.8	13910.0
55°	12375.8	12510.3	13103.4	14186.7	15772.3	17073.1	17950.9	17840.2	16626.3	17689.9	15633.9
57.5°	11889.5	11980.4	12783.1	14202.6	16839.8	19742.0	20584.2	20445.8	19014.5	19061.9	17717.6
60°	9853.2	9995.6	11189.6	12854.3	16424.7	21798.1	24210.0	24000.4	21189.2	20797.7	19058.0
62.5°	6824.5	6919.4	7900.0	9971.8	14455.6	22513.7	27634.1	27748.7	23482.4	22150.0	19457.3
65°	4420.5	4412.6	4974.1	6377.7	10244.7	20347.0	29658.5	30370.2	25696.7	22355.6	19334.8
67°	3123.6	3111.8	3376.7	4325.6	7093.4	16764.7	29622.9	31153.1	26898.7	22414.9	18200.0
67.5°	2882.4	2870.6	3123.6	3977.7	6401.4	15590.4	29180.1	30749.8	27321.7	22331.9	17701.8
70°	2237.9	2206.3	2301.2	2740.1	3728.6	10082.5	24973.1	28246.9	26443.9	20260.0	14135.3
72.5°	1617.2	1652.7	1803.0	2249.8	2925.9	5424.8	19034.3	22841.9	22086.7	15270.1	8983.4
75°	1126.9	1158.5	1399.7	1834.6	2684.7	3289.7	12870.1	16567.0	15384.8	8429.8	3827.4
77.5°	589.1	628.7	893.6	1466.9	2439.6	2546.3	7690.4	10505.6	8153.0	3001.0	1055.7
80°	272.8	292.6	446.8	1039.9	2040.2	2237.9	4483.8	5843.9	3262.0	672.2	363.8
82.5°	118.6	130.5	205.6	597.0	1447.1	1957.2	2775.7	3064.3	1182.2	217.5	225.4
85°	23.7	27.7	79.1	316.3	699.8	1186.2	1949.3	1818.8	593.1	106.8	177.9
87.5°	0.0	0.0	19.8	90.9	189.8	351.9	826.4	826.4	181.9	55.4	67.2
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°	8437.7	8437.7	8437.7	8437.7	8437.7	8437.7	8437.7	8437.7	8437.7	8437.7	8437.7
2.5°	8441.7	8299.3	7987.0	7698.3	7492.7	7259.4	6951.0	6812.6	6761.2	6690.1	6583.3
5°	8220.2	8046.3	7512.5	6974.7	6385.6	5938.8	5464.3	5187.6	4978.0	4847.5	4804.0
7.5°	7907.9	7552.0	6832.4	5970.4	5207.3	4543.1	3823.5	3337.1	3024.8	2898.2	2779.6
10°	7658.8	7196.2	6100.9	5029.4	4013.2	3040.6	2230.0	1803.0	1478.8	1356.2	1340.4
12.5°	7334.6	6781.0	5416.9	4068.6	2791.5	1810.9	1233.6	1071.5	980.6	964.8	952.9
15°	7065.7	6405.4	4768.5	3151.3	1807.0	1130.8	960.8	921.3	897.5	889.6	893.6
17.5°	6883.8	6002.1	4104.2	2293.3	1190.1	925.2	885.7	862.0	850.1	846.1	834.3
20°	6524.0	5662.0	3447.8	1605.3	929.2	854.1	822.4	802.6	790.8	786.8	782.9
22.5°	6318.4	5231.1	2791.5	1119.0	826.4	775.0	751.2	735.4	715.7	703.8	699.8
25°	6112.8	4914.7	2206.3	869.9	751.2	715.7	680.1	660.3	628.7	612.9	608.9
27.5°	5871.6	4602.4	1700.2	755.2	676.1	640.5	605.0	573.3	533.8	518.0	510.1
30°	5733.2	4297.9	1281.1	676.1	620.8	573.3	529.8	490.3	446.8	419.1	411.2
32.5°	5662.0	4021.2	960.8	616.8	561.5	510.1	454.7	407.3	367.7	344.0	340.0
35°	5575.1	3752.3	755.2	561.5	506.1	450.7	395.4	347.9	308.4	288.6	280.7
37.5°	5666.0	3594.1	628.7	518.0	462.6	399.3	340.0	292.6	261.0	241.2	237.2
40°	5915.1	3463.7	545.6	478.4	419.1	351.9	296.5	249.1	221.4	205.6	197.7
42.5°	6298.6	3463.7	494.2	438.9	379.6	308.4	253.1	217.5	189.8	174.0	170.0
45°	6994.5	3570.4	450.7	399.3	332.1	264.9	217.5	181.9	154.2	138.4	134.4
47.5°	7971.1	3815.6	415.2	363.8	296.5	233.3	189.8	154.2	126.5	110.7	106.8
50°	9283.9	4373.1	379.6	320.3	264.9	201.7	158.2	122.6	98.8	83.0	79.1
52.5°	10920.8	5163.8	344.0	296.5	225.4	170.0	126.5	98.8	75.1	63.3	59.3
55°	12652.6	6132.6	300.5	264.9	193.7	142.3	102.8	75.1	55.4	47.4	43.5
57.5°	14396.3	6879.9	264.9	229.3	158.2	114.7	83.0	59.3	39.5	31.6	27.7
60°	15321.5	6951.0	229.3	189.8	126.5	90.9	63.3	43.5	27.7	19.8	15.8
62.5°	15463.9	6318.4	197.7	154.2	102.8	71.2	43.5	31.6	15.8	7.9	7.9
65°	14732.4	5266.6	170.0	122.6	79.1	51.4	31.6	19.8	7.9	4.0	0.0
67°	13546.2	4412.6	146.3	102.8	63.3	39.5	23.7	11.9	4.0	0.0	0.0
67.5°	13087.5	4175.4	138.4	94.9	59.3	35.6	19.8	11.9	4.0	0.0	0.0
70°	10157.7	2981.3	102.8	67.2	43.5	27.7	15.8	7.9	0.0	0.0	0.0
72.5°	6223.5	1743.7	79.1	47.4	31.6	19.8	11.9	4.0	0.0	0.0	0.0
75°	2609.6	601.0	67.2	35.6	23.7	11.9	7.9	4.0	0.0	0.0	0.0
77.5°	680.1	225.4	47.4	23.7	15.8	11.9	7.9	4.0	0.0	0.0	0.0
80°	276.8	102.8	31.6	15.8	15.8	11.9	7.9	4.0	0.0	0.0	0.0
82.5°	181.9	47.4	19.8	15.8	11.9	7.9	4.0	0.0	0.0	0.0	0.0
85°	138.4	27.7	11.9	11.9	7.9	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	59.3	15.8	11.9	7.9	7.9	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)