

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: P484579

Luminaire Tested: **IFLD-L-SA7C-830-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484579
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

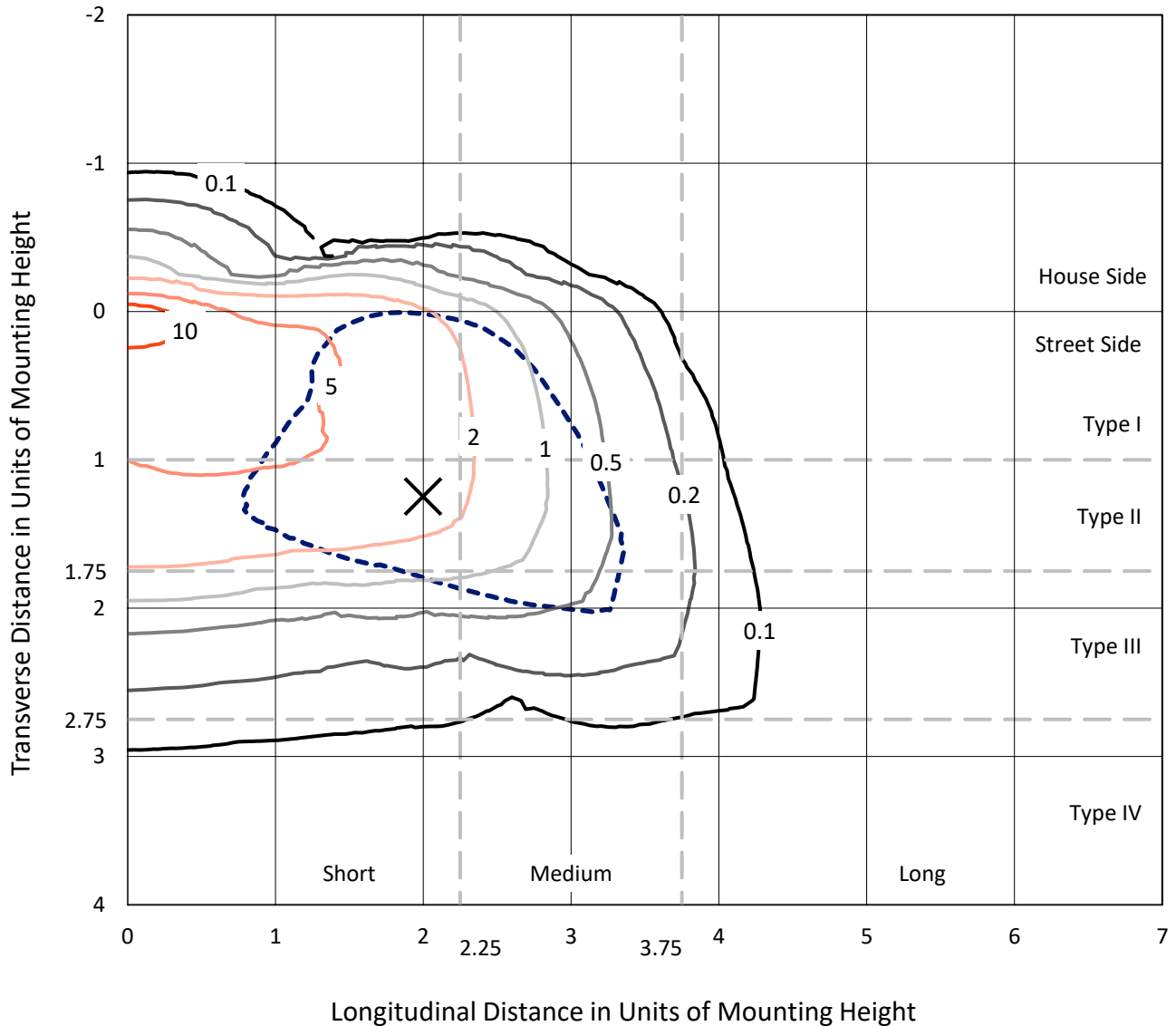
Lumens per Lamp: N/A
Luminaire Lumens: 29458.7 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 369
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

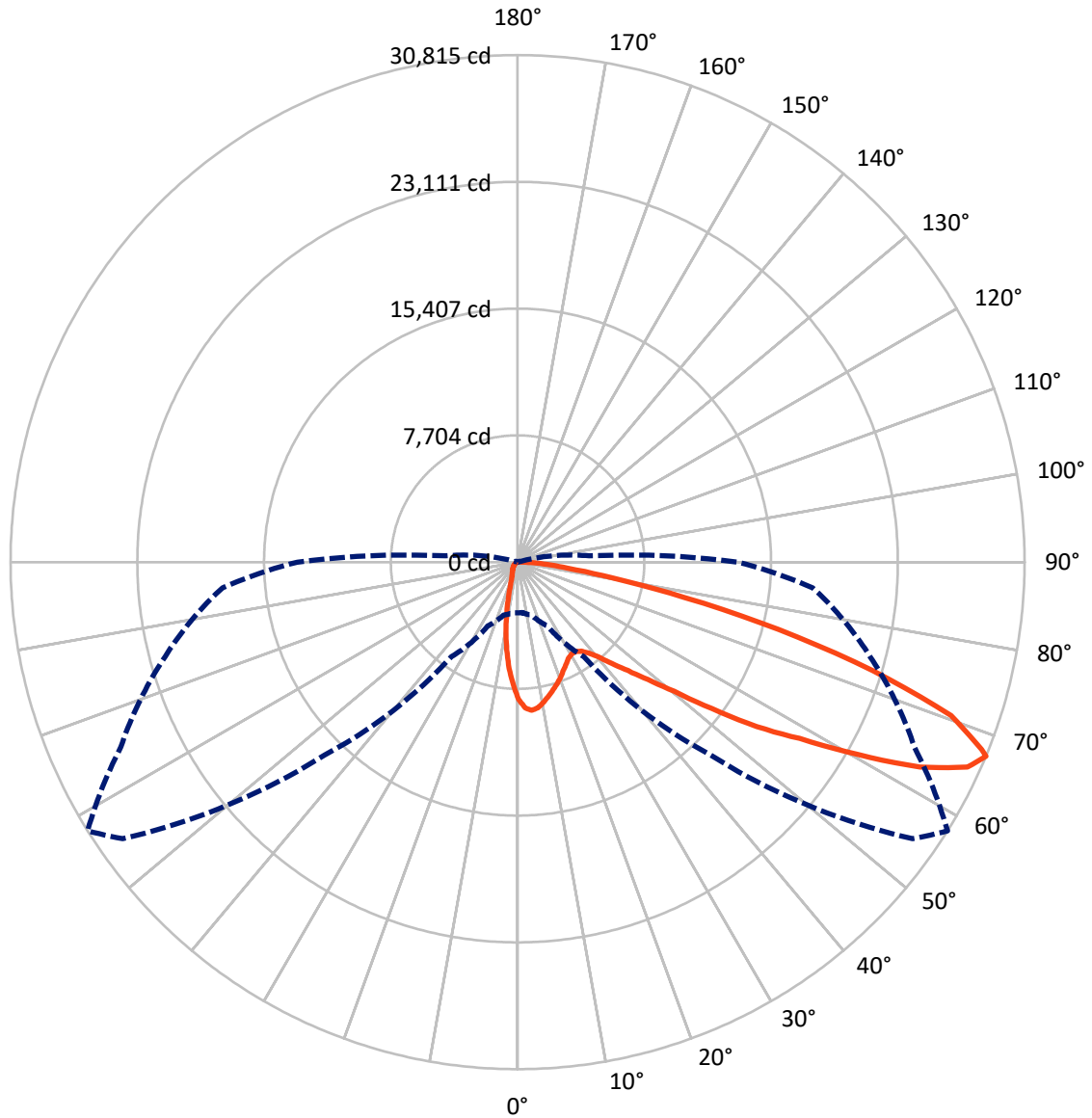
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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	2434.9	0.0	2434.9
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	27023.8	0.0	27023.8
	% Fixture	91.7	0.0	91.7
Total	Lumens	29458.7	0.0	29458.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	662.2	2.2
10°-20°	1373.6	4.7
20°-30°	1822.4	6.2
30°-40°	2525.3	8.6
40°-50°	4120.6	14.0
50°-60°	7242.6	24.6
60°-70°	8021.8	27.2
70°-80°	3324.2	11.3
80°-90°	365.9	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°	29458.7	100.0
0°-180°	29458.7	100.0



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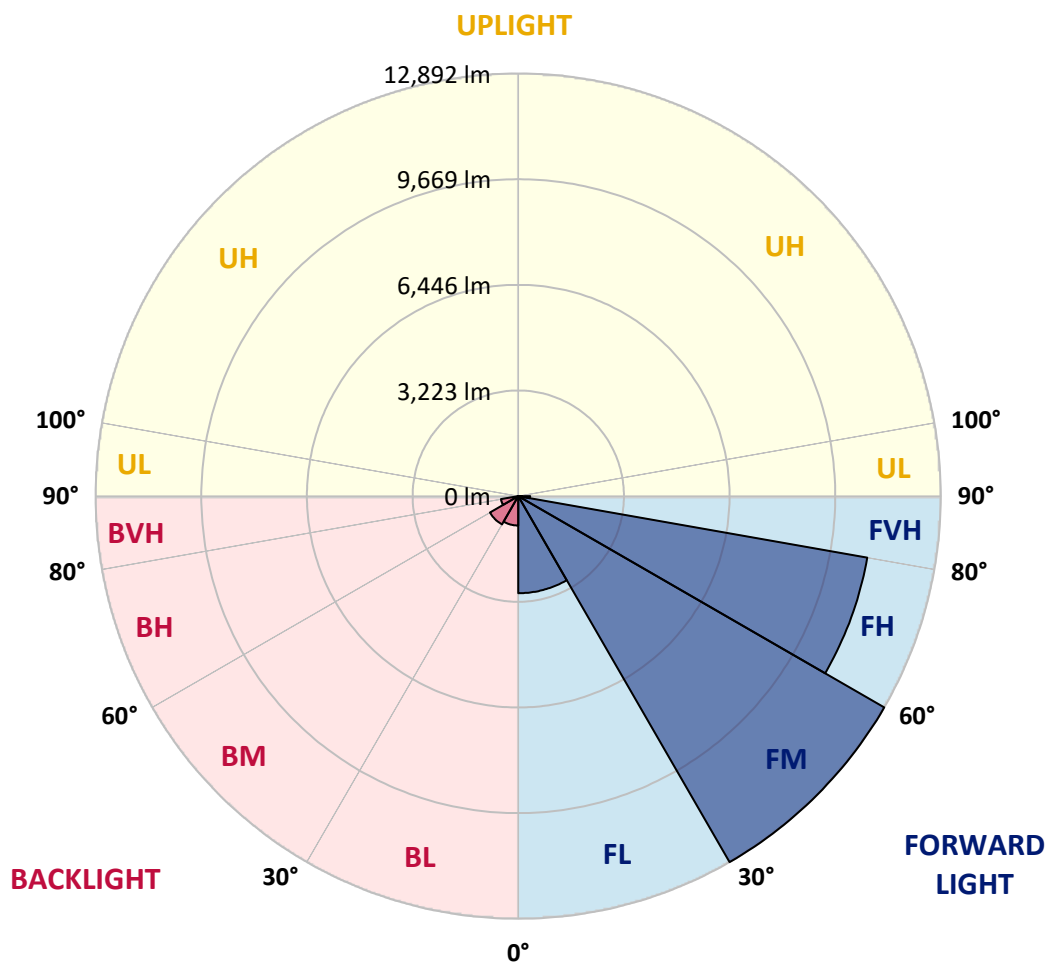
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2961.4	10.1			
FM	(30°-60°)	12891.7	43.8			
FH	(60°-80°)	10810.7	36.7			G4/12000
FVH	(80°-90°)	359.9	1.2			G3/500
BL	(0°-30°)	896.8	3.0	B2/1000		
BM	(30°-60°)	996.8	3.4	B1/1000		
BH	(60°-80°)	535.3	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°	8346.1	8346.1	8346.1	8346.1	8346.1	8346.1	8346.1	8346.1	8346.1	8346.1	8346.1
2.5°	9081.3	9112.6	9140.0	9089.2	9132.2	9069.6	8909.2	8874.0	8846.7	8608.1	8471.2
5°	9077.4	9042.2	9069.6	9093.1	9034.4	9081.3	9042.2	9046.1	8940.5	8725.4	8342.2
7.5°	8471.2	8455.6	8471.2	8584.6	8713.7	8815.4	8874.0	8932.7	8862.3	8541.6	8170.1
10°	7653.8	7732.0	7775.1	7978.4	8177.9	8365.6	8549.4	8658.9	8639.4	8510.3	7982.3
12.5°	7082.8	7059.3	7215.8	7348.8	7548.2	7927.6	8248.3	8350.0	8467.3	8287.4	7735.9
15°	6554.8	6492.3	6586.1	6816.9	7157.1	7458.3	7908.0	8060.6	8209.2	8256.1	7603.0
17.5°	6050.3	6081.6	6179.4	6386.7	6707.4	7129.7	7552.1	7771.1	8127.0	8064.5	7403.5
20°	5807.8	5874.3	5909.5	6015.1	6238.0	6660.4	7290.1	7466.1	7845.5	8060.6	7208.0
22.5°	5819.6	5819.6	5737.4	5800.0	6003.4	6331.9	6934.2	7129.7	7732.0	7857.2	7032.0
25°	5944.7	5866.5	5870.4	5796.1	5882.1	6062.0	6613.5	6852.1	7501.3	7876.7	6938.1
27.5°	6038.6	6022.9	5999.5	5979.9	5870.4	5897.8	6402.3	6597.9	7411.3	7853.3	6793.4
30°	6378.8	6308.4	6285.0	6241.9	6097.2	5964.3	6234.1	6480.5	7340.9	7908.0	6711.3
32.5°	6664.3	6676.1	6695.6	6570.5	6445.3	6116.8	6281.1	6476.6	7290.1	8033.2	6793.4
35°	7024.1	7075.0	7082.8	7043.7	6910.7	6586.1	6476.6	6644.8	7376.1	8256.1	6801.2
37.5°	7571.7	7516.9	7665.6	7681.2	7587.3	7157.1	6930.3	6996.8	7630.4	8612.0	7098.5
40°	7927.6	7994.1	8271.8	8443.8	8283.5	7892.4	7587.3	7575.6	7998.0	9171.3	7466.1
42.5°	8322.6	8471.2	8776.3	9147.8	9128.3	8764.5	8455.6	8404.7	8651.1	9980.9	8048.8
45°	8862.3	8995.3	9421.6	9980.9	10285.9	9977.0	9511.5	9409.9	9445.1	11083.8	9042.2
47.5°	9757.9	9722.7	10336.8	10888.2	11388.8	11150.2	10950.8	10653.6	10626.2	12382.2	10415.0
50°	10770.9	10763.1	11310.6	11936.4	12515.2	12980.6	12648.2	12323.5	12331.4	14146.1	12030.2
52.5°	11733.0	11885.5	12476.1	13097.9	14091.3	14591.9	14912.6	14783.6	14161.7	15722.2	13758.9
55°	12241.4	12374.4	12961.0	14032.7	15601.0	16887.7	17755.9	17646.4	16445.7	17497.8	15464.1
57.5°	11760.4	11850.3	12644.2	14048.3	16656.9	19527.6	20360.6	20223.8	18808.0	18854.9	17525.2
60°	9746.2	9887.0	11068.1	12714.6	16246.3	21561.3	23947.0	23739.7	20959.0	20571.8	18851.0
62.5°	6750.4	6844.2	7814.2	9863.5	14298.6	22269.2	27334.0	27447.4	23227.4	21909.4	19246.0
65°	4372.5	4364.7	4920.0	6308.4	10133.4	20126.0	29336.4	30040.4	25417.6	22112.8	19124.8
67°	3089.7	3078.0	3340.0	4278.6	7016.3	16582.6	29301.2	30814.7	26606.5	22171.4	18002.3
67.5°	2851.1	2839.4	3089.7	3934.5	6331.9	15421.1	28863.1	30415.8	27025.0	22089.3	17509.5
70°	2213.6	2182.3	2276.2	2710.3	3688.1	9973.0	24701.9	27940.2	26156.7	20039.9	13981.8
72.5°	1599.6	1634.8	1783.4	2225.4	2894.1	5365.9	18827.5	22593.8	21846.8	15104.3	8885.8
75°	1114.6	1145.9	1384.5	1814.7	2655.6	3253.9	12730.3	16387.1	15217.7	8338.2	3785.8
77.5°	582.7	621.8	883.9	1451.0	2413.1	2518.7	7606.9	10391.5	8064.5	2968.4	1044.2
80°	269.9	289.4	441.9	1028.6	2018.1	2213.6	4435.1	5780.5	3226.6	664.9	359.8
82.5°	117.3	129.1	203.4	590.6	1431.4	1935.9	2745.5	3031.0	1169.4	215.1	222.9
85°	23.5	27.4	78.2	312.9	692.2	1173.3	1928.1	1799.1	586.6	105.6	176.0
87.5°	0.0	0.0	19.6	90.0	187.7	348.1	817.4	817.4	179.9	54.8	66.5
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°	8346.1	8346.1	8346.1	8346.1	8346.1	8346.1	8346.1	8346.1	8346.1	8346.1	8346.1
2.5°	8350.0	8209.2	7900.2	7614.7	7411.3	7180.6	6875.5	6738.6	6687.8	6617.4	6511.8
5°	8131.0	7958.9	7430.9	6899.0	6316.3	5874.3	5405.0	5131.2	4923.9	4794.9	4751.9
7.5°	7822.0	7470.0	6758.2	5905.6	5150.8	4493.7	3781.9	3300.9	2991.9	2866.8	2749.4
10°	7575.6	7118.0	6034.7	4974.8	3969.7	3007.6	2205.8	1783.4	1462.7	1341.5	1325.8
12.5°	7254.9	6707.4	5358.1	4024.4	2761.2	1791.2	1220.2	1059.9	969.9	954.3	942.6
15°	6988.9	6335.8	4716.7	3117.1	1787.3	1118.5	950.4	911.3	887.8	880.0	883.9
17.5°	6809.0	5936.9	4059.6	2268.4	1177.2	915.2	876.1	852.6	840.9	837.0	825.2
20°	6453.1	5600.5	3410.4	1587.9	919.1	844.8	813.5	793.9	782.2	778.3	774.4
22.5°	6249.8	5174.2	2761.2	1106.8	817.4	766.6	743.1	727.4	707.9	696.2	692.2
25°	6046.4	4861.4	2182.3	860.4	743.1	707.9	672.7	653.1	621.8	606.2	602.3
27.5°	5807.8	4552.4	1681.7	747.0	668.8	633.6	598.4	567.1	528.0	512.3	504.5
30°	5670.9	4251.3	1267.2	668.8	614.0	567.1	524.1	485.0	441.9	414.6	406.7
32.5°	5600.5	3977.5	950.4	610.1	555.4	504.5	449.8	402.8	363.7	340.3	336.3
35°	5514.5	3711.5	747.0	555.4	500.6	445.9	391.1	344.2	305.1	285.5	277.7
37.5°	5604.5	3555.1	621.8	512.3	457.6	395.0	336.3	289.4	258.1	238.6	234.7
40°	5850.8	3426.0	539.7	473.2	414.6	348.1	293.3	246.4	219.0	203.4	195.5
42.5°	6230.2	3426.0	488.9	434.1	375.5	305.1	250.3	215.1	187.7	172.1	168.2
45°	6918.6	3531.6	445.9	395.0	328.5	262.0	215.1	179.9	152.5	136.9	133.0
47.5°	7884.6	3774.1	410.7	359.8	293.3	230.7	187.7	152.5	125.2	109.5	105.6
50°	9183.0	4325.6	375.5	316.8	262.0	199.5	156.4	121.2	97.8	82.1	78.2
52.5°	10802.2	5107.8	340.3	293.3	222.9	168.2	125.2	97.8	74.3	62.6	58.7
55°	12515.2	6066.0	297.2	262.0	191.6	140.8	101.7	74.3	54.8	46.9	43.0
57.5°	14239.9	6805.1	262.0	226.8	156.4	113.4	82.1	58.7	39.1	31.3	27.4
60°	15155.1	6875.5	226.8	187.7	125.2	90.0	62.6	43.0	27.4	19.6	15.6
62.5°	15295.9	6249.8	195.5	152.5	101.7	70.4	43.0	31.3	15.6	7.8	7.8
65°	14572.4	5209.4	168.2	121.2	78.2	50.8	31.3	19.6	7.8	3.9	0.0
67°	13399.1	4364.7	144.7	101.7	62.6	39.1	23.5	11.7	3.9	0.0	0.0
67.5°	12945.4	4130.0	136.9	93.9	58.7	35.2	19.6	11.7	3.9	0.0	0.0
70°	10047.3	2948.9	101.7	66.5	43.0	27.4	15.6	7.8	0.0	0.0	0.0
72.5°	6155.9	1724.7	78.2	46.9	31.3	19.6	11.7	3.9	0.0	0.0	0.0
75°	2581.3	594.5	66.5	35.2	23.5	11.7	7.8	3.9	0.0	0.0	0.0
77.5°	672.7	222.9	46.9	23.5	15.6	11.7	7.8	3.9	0.0	0.0	0.0
80°	273.8	101.7	31.3	15.6	15.6	11.7	7.8	3.9	0.0	0.0	0.0
82.5°	179.9	46.9	19.6	15.6	11.7	7.8	3.9	0.0	0.0	0.0	0.0
85°	136.9	27.4	11.7	11.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	58.7	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)