

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: P484412

Luminaire Tested: **IFLD-S-SA6B-740-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484412
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-740-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

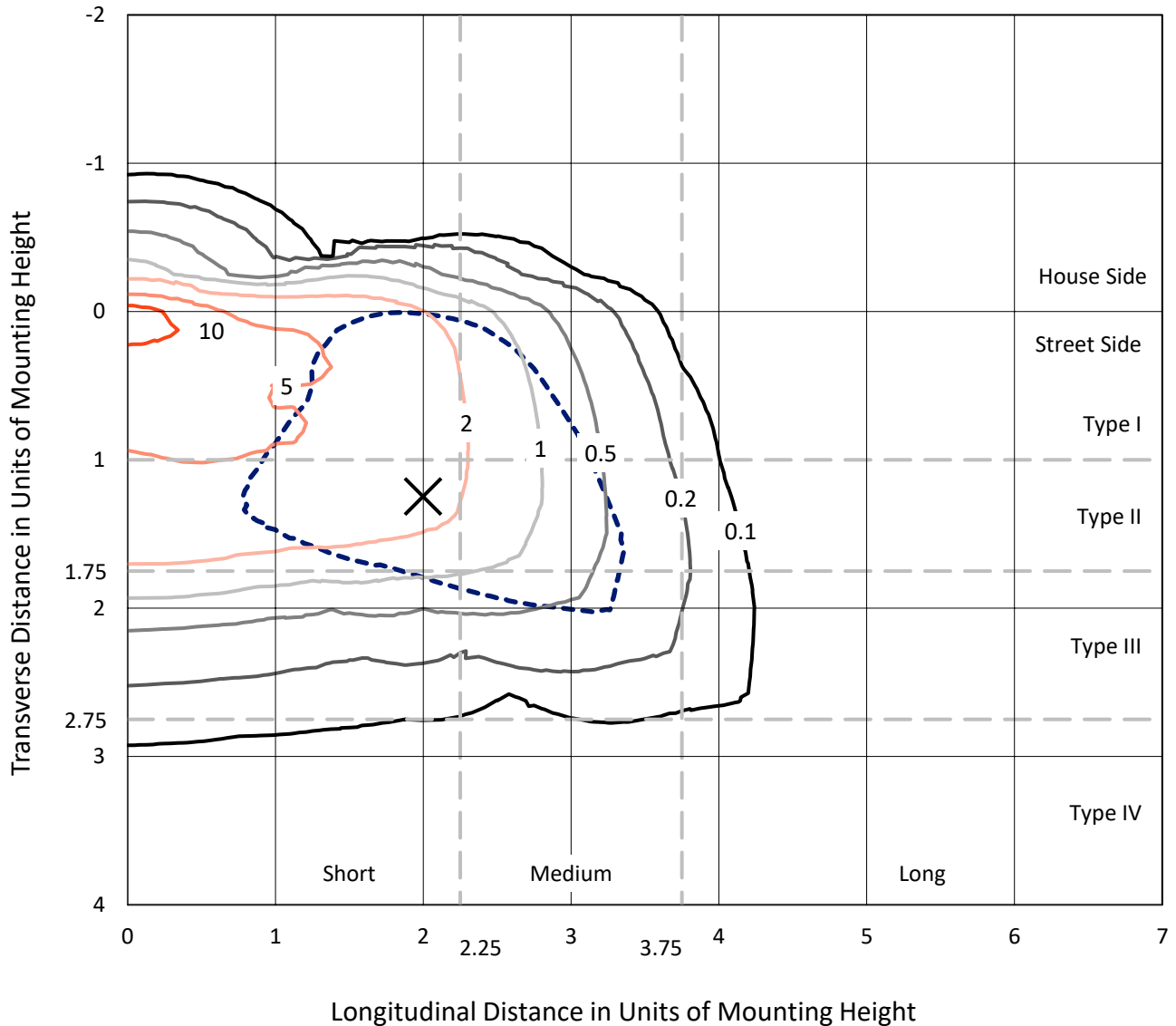
Lumens per Lamp: N/A
Luminaire Lumens: 27915.2 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9
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

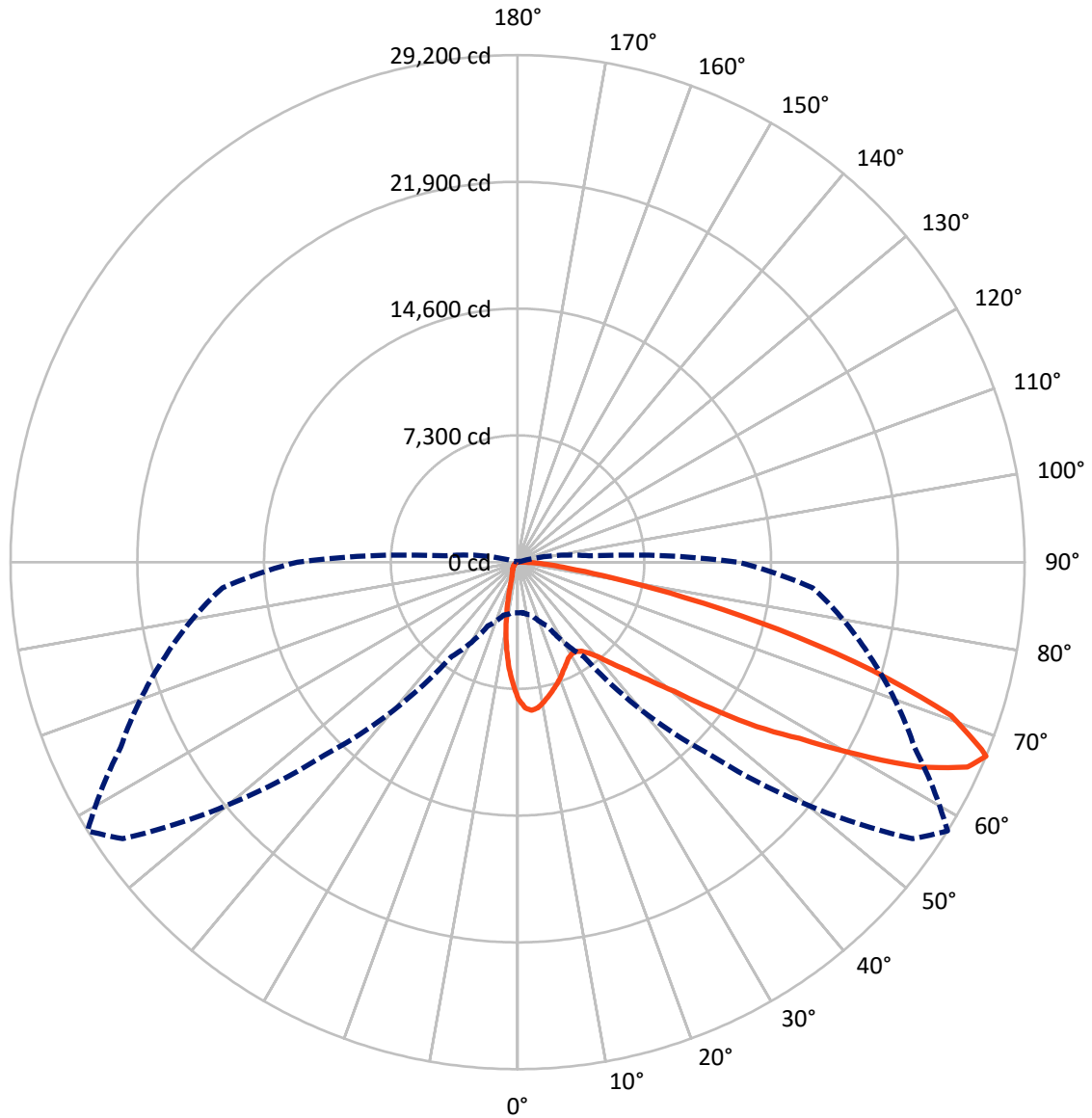
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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	2307.4	0.0	2307.4
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	25607.9	0.0	25607.9
	% Fixture	91.7	0.0	91.7
Total	Lumens	27915.2	0.0	27915.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.5	2.2
10°-20°	1301.6	4.7
20°-30°	1726.9	6.2
30°-40°	2393.0	8.6
40°-50°	3904.7	14.0
50°-60°	6863.2	24.6
60°-70°	7601.5	27.2
70°-80°	3150.1	11.3
80°-90°	346.8	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°	27915.2	100.0
0°-180°	27915.2	100.0

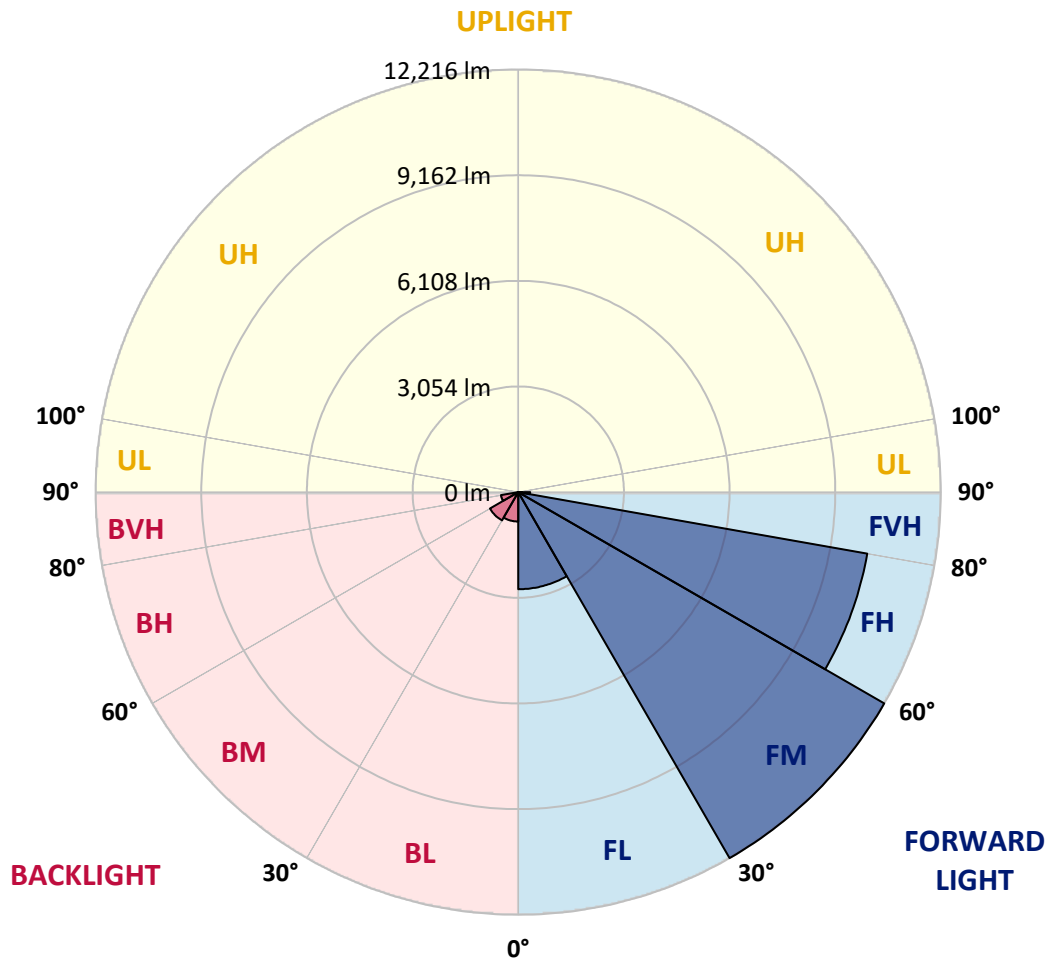


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2806.3	10.1			
FM (30°-60°)	12216.3	43.8			
FH (60°-80°)	10244.3	36.7			G4/12000
FVH (80°-90°)	341.1	1.2			G3/500
BL (0°-30°)	849.8	3.0	B2/1000		
BM (30°-60°)	944.6	3.4	B1/1000		
BH (60°-80°)	507.3	1.8	B2/1000		G2/1000
BVH (80°-90°)	5.7	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°	7908.8	7908.8	7908.8	7908.8	7908.8	7908.8	7908.8	7908.8	7908.8	7908.8	7908.8
2.5°	8605.5	8635.2	8661.1	8612.9	8653.7	8594.4	8442.5	8409.1	8383.2	8157.1	8027.4
5°	8601.8	8568.5	8594.4	8616.6	8561.0	8605.5	8568.5	8572.2	8472.1	8268.3	7905.1
7.5°	8027.4	8012.5	8027.4	8134.8	8257.1	8353.5	8409.1	8464.7	8398.0	8094.1	7742.0
10°	7252.8	7326.9	7367.7	7560.4	7749.4	7927.3	8101.5	8205.3	8186.7	8064.4	7564.1
12.5°	6711.7	6689.5	6837.7	6963.7	7152.7	7512.2	7816.1	7912.5	8023.7	7853.2	7330.6
15°	6211.4	6152.1	6241.0	6459.7	6782.1	7067.5	7493.7	7638.2	7779.1	7823.5	7204.6
17.5°	5733.3	5763.0	5855.6	6052.0	6355.9	6756.2	7156.4	7364.0	7701.2	7641.9	7015.6
20°	5503.5	5566.5	5599.9	5700.0	5911.2	6311.5	6908.1	7074.9	7434.4	7638.2	6830.3
22.5°	5514.6	5514.6	5436.8	5496.1	5688.8	6000.1	6570.9	6756.2	7326.9	7445.5	6663.5
25°	5633.2	5559.1	5562.8	5492.4	5573.9	5744.4	6267.0	6493.1	7108.3	7464.0	6574.6
27.5°	5722.2	5707.4	5685.1	5666.6	5562.8	5588.8	6066.9	6252.2	7023.0	7441.8	6437.5
30°	6044.6	5977.9	5955.7	5914.9	5777.8	5651.8	5907.5	6141.0	6956.3	7493.7	6359.6
32.5°	6315.2	6326.3	6344.8	6226.2	6107.6	5796.3	5952.0	6137.3	6908.1	7612.3	6437.5
35°	6656.1	6704.3	6711.7	6674.7	6548.6	6241.0	6137.3	6296.6	6989.7	7823.5	6444.9
37.5°	7175.0	7123.1	7263.9	7278.7	7189.8	6782.1	6567.2	6630.2	7230.6	8160.8	6726.5
40°	7512.2	7575.2	7838.4	8001.4	7849.5	7478.9	7189.8	7178.7	7578.9	8690.8	7074.9
42.5°	7886.5	8027.4	8316.4	8668.5	8650.0	8305.3	8012.5	7964.4	8197.8	9457.9	7627.1
45°	8398.0	8524.0	8927.9	9457.9	9747.0	9454.2	9013.2	8916.8	8950.2	10503.0	8568.5
47.5°	9246.7	9213.3	9795.2	10317.7	10792.1	10566.0	10377.0	10095.4	10069.4	11733.4	9869.3
50°	10206.5	10199.1	10718.0	11311.0	11859.5	12300.5	11985.5	11677.9	11685.3	13404.9	11399.9
52.5°	11118.2	11262.8	11822.4	12411.7	13353.0	13827.4	14131.3	14009.0	13419.7	14898.4	13038.0
55°	11600.0	11726.0	12281.9	13297.4	14783.6	16002.9	16825.6	16721.8	15584.1	16581.0	14653.8
57.5°	11144.2	11229.4	11981.8	13312.2	15784.2	18504.5	19293.9	19164.1	17822.5	17867.0	16606.9
60°	9235.6	9369.0	10488.2	12048.5	15395.1	20431.6	22692.3	22495.9	19860.9	19494.0	17863.3
62.5°	6396.7	6485.6	7404.7	9346.7	13549.4	21102.4	25901.8	26009.3	22010.4	20761.5	18237.6
65°	4143.4	4136.0	4662.2	5977.9	9602.5	19071.5	27799.3	28466.4	24085.8	20954.2	18122.7
67°	2927.8	2916.7	3165.0	4054.5	6648.7	15713.8	27766.0	29200.2	25212.5	21009.8	17059.1
67.5°	2701.7	2690.6	2927.8	3728.3	6000.1	14613.1	27350.9	28822.2	25609.0	20931.9	16592.1
70°	2097.6	2068.0	2156.9	2568.3	3494.8	9450.5	23407.6	26476.2	24786.3	18990.0	13249.2
72.5°	1515.8	1549.1	1690.0	2108.8	2742.5	5084.7	17841.1	21410.0	20702.2	14312.9	8420.2
75°	1056.2	1085.9	1312.0	1719.6	2516.4	3083.5	12063.3	15528.5	14420.4	7901.4	3587.5
77.5°	552.2	589.3	837.6	1375.0	2286.7	2386.7	7208.3	9847.1	7641.9	2812.9	989.5
80°	255.7	274.2	418.8	974.7	1912.3	2097.6	4202.7	5477.6	3057.5	630.0	341.0
82.5°	111.2	122.3	192.7	559.6	1356.4	1834.5	2601.7	2872.2	1108.1	203.8	211.2
85°	22.2	25.9	74.1	296.5	656.0	1111.8	1827.1	1704.8	555.9	100.1	166.8
87.5°	0.0	0.0	18.5	85.2	177.9	329.8	774.6	774.6	170.5	51.9	63.0
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°	7908.8	7908.8	7908.8	7908.8	7908.8	7908.8	7908.8	7908.8	7908.8	7908.8	7908.8
2.5°	7912.5	7779.1	7486.3	7215.7	7023.0	6804.4	6515.3	6385.6	6337.4	6270.7	6170.6
5°	7704.9	7541.9	7041.6	6537.5	5985.3	5566.5	5121.8	4862.4	4666.0	4543.7	4502.9
7.5°	7412.2	7078.6	6404.1	5596.2	4880.9	4258.3	3583.8	3127.9	2835.2	2716.6	2605.4
10°	7178.7	6745.1	5718.5	4714.1	3761.7	2850.0	2090.2	1690.0	1386.1	1271.2	1256.4
12.5°	6874.8	6355.9	5077.3	3813.6	2616.5	1697.4	1156.3	1004.3	919.1	904.3	893.2
15°	6622.8	6003.8	4469.5	2953.7	1693.7	1059.9	900.6	863.5	841.3	833.9	837.6
17.5°	6452.3	5625.8	3846.9	2149.5	1115.5	867.2	830.2	807.9	796.8	793.1	782.0
20°	6115.0	5307.1	3231.7	1504.7	870.9	800.5	770.9	752.3	741.2	737.5	733.8
22.5°	5922.3	4903.1	2616.5	1048.8	774.6	726.4	704.2	689.3	670.8	659.7	656.0
25°	5729.6	4606.7	2068.0	815.3	704.2	670.8	637.4	618.9	589.3	574.4	570.7
27.5°	5503.5	4313.9	1593.6	707.9	633.7	600.4	567.0	537.4	500.3	485.5	478.1
30°	5373.8	4028.5	1200.8	633.7	581.9	537.4	496.6	459.6	418.8	392.8	385.4
32.5°	5307.1	3769.1	900.6	578.1	526.3	478.1	426.2	381.7	344.7	322.4	318.7
35°	5225.6	3517.1	707.9	526.3	474.4	422.5	370.6	326.1	289.1	270.5	263.1
37.5°	5310.8	3368.8	589.3	485.5	433.6	374.3	318.7	274.2	244.6	226.1	222.4
40°	5544.3	3246.5	511.4	448.4	392.8	329.8	278.0	233.5	207.5	192.7	185.3
42.5°	5903.8	3246.5	463.3	411.4	355.8	289.1	237.2	203.8	177.9	163.1	159.4
45°	6556.1	3346.6	422.5	374.3	311.3	248.3	203.8	170.5	144.5	129.7	126.0
47.5°	7471.5	3576.4	389.1	341.0	278.0	218.7	177.9	144.5	118.6	103.8	100.1
50°	8701.9	4098.9	355.8	300.2	248.3	189.0	148.2	114.9	92.7	77.8	74.1
52.5°	10236.2	4840.1	322.4	278.0	211.2	159.4	118.6	92.7	70.4	59.3	55.6
55°	11859.5	5748.1	281.7	248.3	181.6	133.4	96.4	70.4	51.9	44.5	40.8
57.5°	13493.8	6448.6	248.3	215.0	148.2	107.5	77.8	55.6	37.1	29.6	25.9
60°	14361.1	6515.3	215.0	177.9	118.6	85.2	59.3	40.8	25.9	18.5	14.8
62.5°	14494.5	5922.3	185.3	144.5	96.4	66.7	40.8	29.6	14.8	7.4	7.4
65°	13808.9	4936.5	159.4	114.9	74.1	48.2	29.6	18.5	7.4	3.7	0.0
67°	12697.0	4136.0	137.1	96.4	59.3	37.1	22.2	11.1	3.7	0.0	0.0
67.5°	12267.1	3913.6	129.7	88.9	55.6	33.4	18.5	11.1	3.7	0.0	0.0
70°	9520.9	2794.4	96.4	63.0	40.8	25.9	14.8	7.4	0.0	0.0	0.0
72.5°	5833.4	1634.4	74.1	44.5	29.6	18.5	11.1	3.7	0.0	0.0	0.0
75°	2446.0	563.3	63.0	33.4	22.2	11.1	7.4	3.7	0.0	0.0	0.0
77.5°	637.4	211.2	44.5	22.2	14.8	11.1	7.4	3.7	0.0	0.0	0.0
80°	259.4	96.4	29.6	14.8	14.8	11.1	7.4	3.7	0.0	0.0	0.0
82.5°	170.5	44.5	18.5	14.8	11.1	7.4	3.7	0.0	0.0	0.0	0.0
85°	129.7	25.9	11.1	11.1	7.4	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	55.6	14.8	11.1	7.4	7.4	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)