

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: P483994

Luminaire Tested: **IFLD-L-SA7C-735-U-SL2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483994
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2
distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

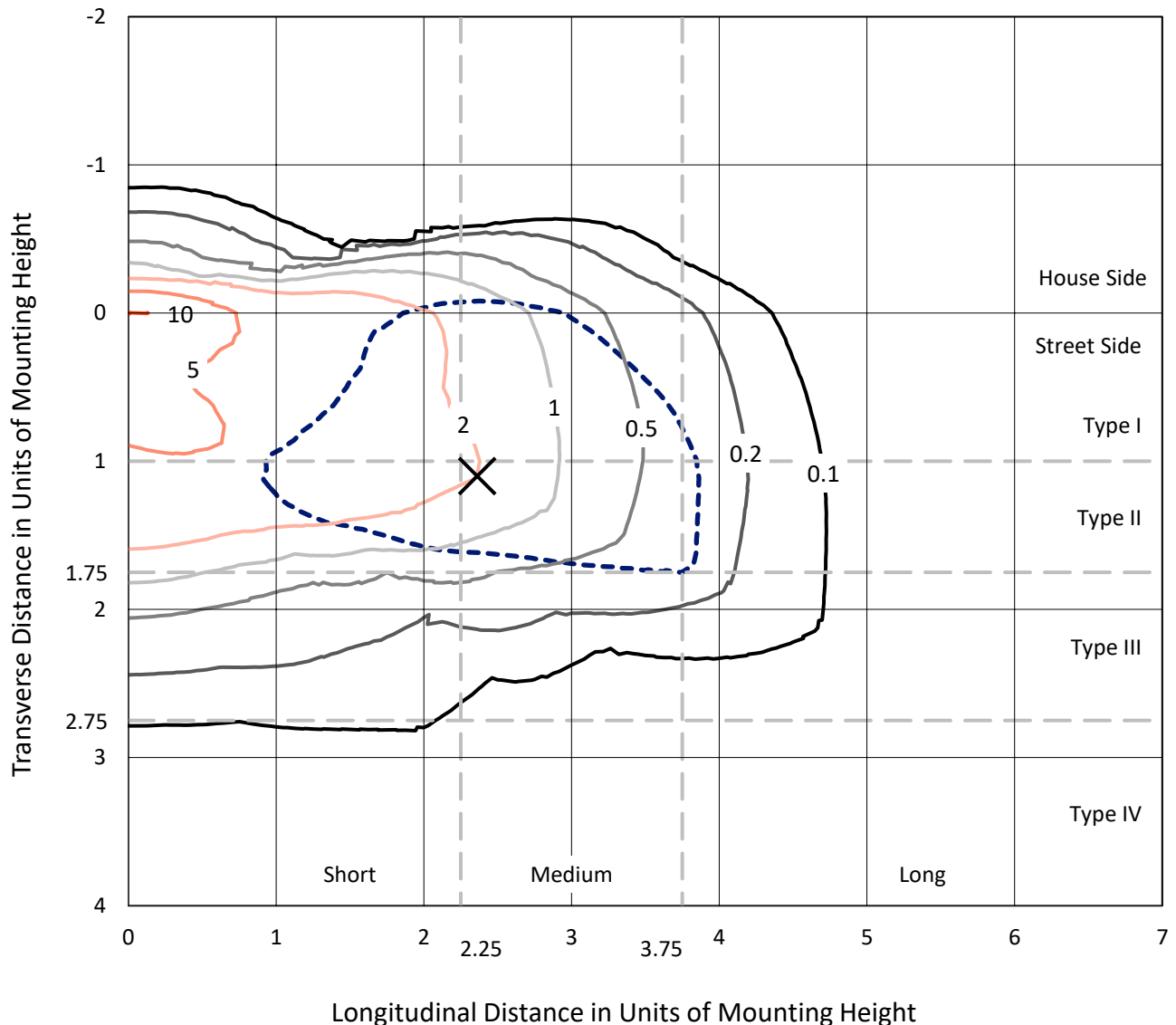
Lumens per Lamp: N/A
Luminaire Lumens: 35986.8 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

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

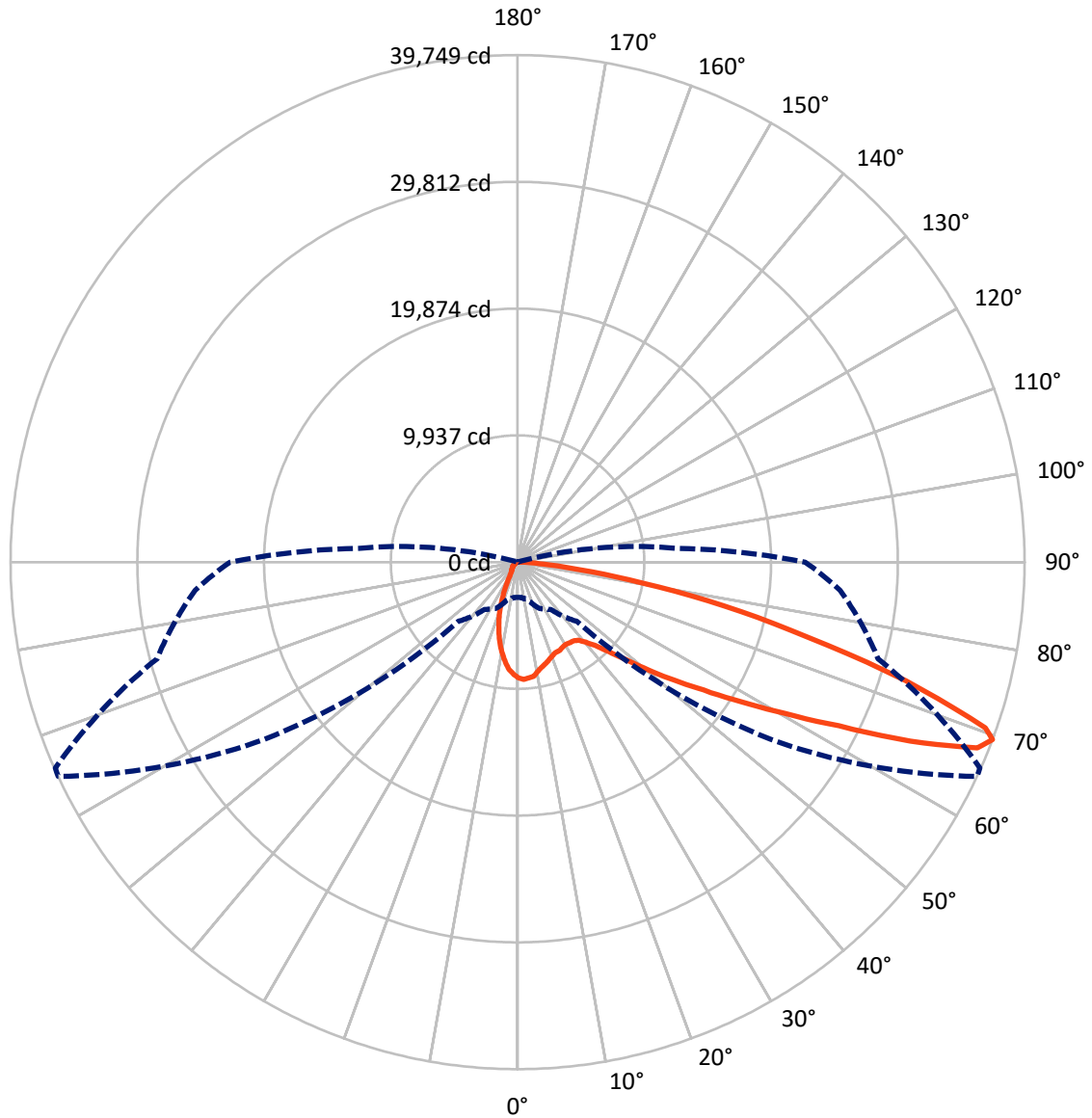
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4365.4	0.0	4365.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	31621.3	0.0	31621.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	35986.8	0.0	35986.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	742.5	2.1
10°-20°	1624.5	4.5
20°-30°	2261.7	6.3
30°-40°	3205.0	8.9
40°-50°	5051.0	14.0
50°-60°	8196.1	22.8
60°-70°	9153.4	25.4
70°-80°	5154.4	14.3
80°-90°	598.1	1.7
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°	35986.8	100.0
0°-180°	35986.8	100.0



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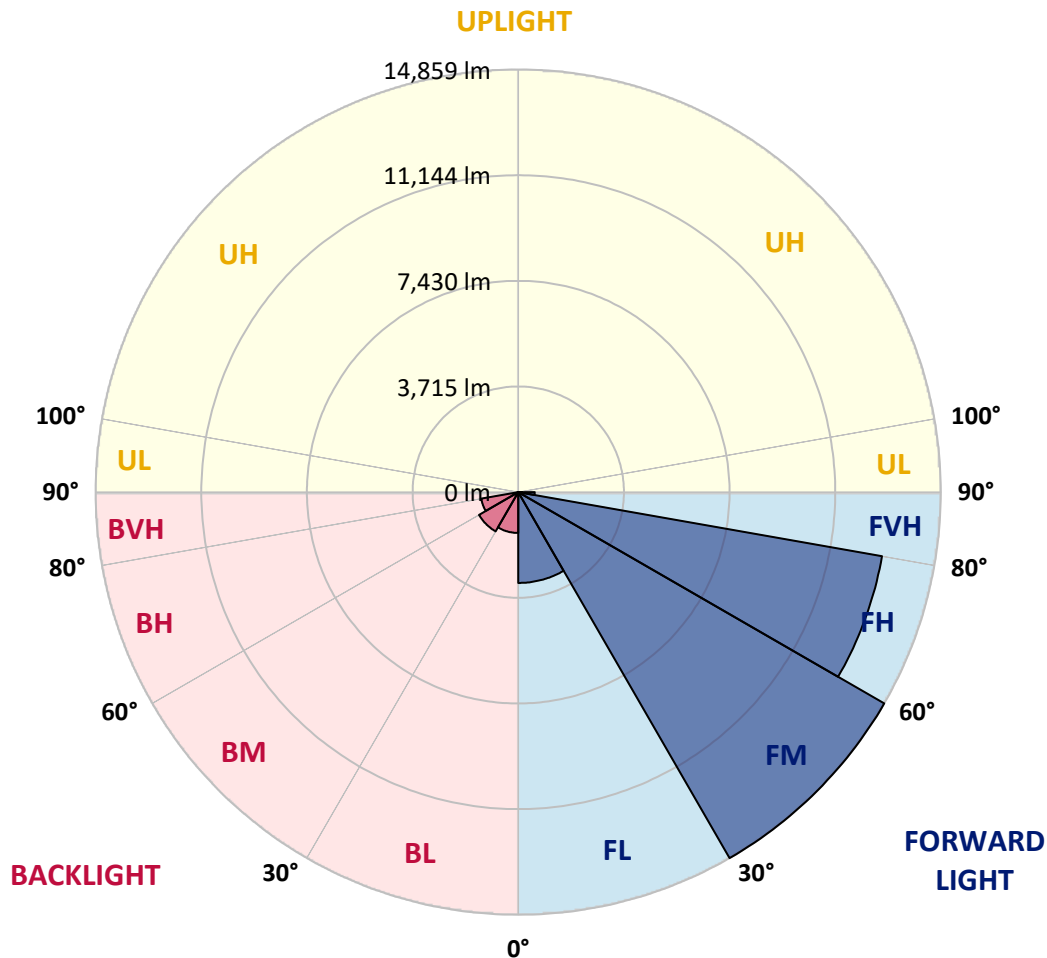
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3193.5	8.9			
FM	(30°-60°)	14859.3	41.3			
FH	(60°-80°)	12987.0	36.1			G5
FVH	(80°-90°)	581.6	1.6			G4/750
BL	(0°-30°)	1435.2	4.0	B3/2500		
BM	(30°-60°)	1592.9	4.4	B2/2500		
BH	(60°-80°)	1320.8	3.7	B3/2500		G3/2500
BVH	(80°-90°)	16.5	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9073.1	9073.1	9073.1	9073.1	9073.1	9073.1	9073.1	9073.1	9073.1	9073.1	9073.1
2.5°	8738.1	8806.1	8825.5	8893.5	8927.5	9073.1	9155.6	9204.2	9179.9	9233.3	9238.1
5°	8116.8	8077.9	8179.9	8252.7	8408.0	8660.5	8917.8	9116.8	9209.0	9296.4	9281.8
7.5°	7451.7	7432.3	7534.2	7699.3	7840.0	8145.9	8558.5	9048.8	9029.4	9243.0	9306.1
10°	6995.4	7014.8	7048.8	7213.8	7422.6	7733.2	8247.8	8704.2	8806.1	9257.6	9383.8
12.5°	6577.9	6611.9	6675.0	6844.9	7087.6	7408.0	7908.0	8442.0	8597.4	9175.0	9427.5
15°	6441.9	6364.3	6490.5	6616.7	6869.1	7155.6	7577.9	8243.0	8310.9	9077.9	9500.3
17.5°	6330.3	6281.7	6340.0	6441.9	6708.9	6942.0	7340.0	8029.4	8155.6	9039.1	9490.6
20°	6364.3	6320.6	6344.9	6422.5	6543.9	6762.3	7131.3	7825.5	7961.4	8859.5	9476.0
22.5°	6461.4	6495.3	6451.7	6471.1	6509.9	6621.6	7019.6	7679.8	7796.4	8825.5	9558.5
25°	6898.3	6840.0	6781.8	6757.5	6529.3	6577.9	6985.7	7670.1	7752.7	8704.2	9490.6
27.5°	7354.6	7306.1	7281.8	7141.0	6830.3	6684.7	6990.5	7534.2	7645.9	8655.6	9408.1
30°	7908.0	7971.1	7874.0	7704.1	7272.1	6912.8	7043.9	7466.2	7621.6	8471.1	9354.7
32.5°	8490.6	8524.5	8573.1	8446.9	7888.6	7257.5	7204.1	7529.4	7539.1	8471.1	9233.3
35°	9150.8	9102.2	9228.4	9238.1	8747.8	7869.2	7509.9	7573.0	7675.0	8432.3	9189.6
37.5°	9718.7	9801.3	9946.9	10179.9	9675.1	8733.3	7985.7	7776.9	7820.6	8611.9	9223.6
40°	10340.1	10422.7	10752.8	10985.8	10699.4	9704.2	8709.0	8252.7	8286.7	8878.9	9398.3
42.5°	11024.6	11184.8	11578.0	11985.8	11908.1	10937.2	9641.1	8951.7	8937.2	9544.0	9757.6
45°	11951.8	12165.4	12592.6	13063.5	13131.5	12349.9	10883.8	9995.5	10044.0	10412.9	10500.3
47.5°	13243.1	13233.4	13650.9	14175.2	14568.4	13816.0	12369.3	11398.4	11393.6	11786.8	11602.3
50°	14490.7	14495.6	14607.2	15214.1	16233.5	15850.0	14209.2	13262.5	13209.1	13403.3	13107.2
52.5°	15068.4	15000.5	14917.9	15651.0	17515.1	18413.2	16539.3	15374.3	15330.6	15214.1	15136.4
55°	14461.6	14485.9	14481.0	15243.2	18189.9	21117.2	19529.7	17699.6	17626.8	17262.7	17369.5
57.5°	12514.9	12437.3	12607.2	13796.5	17418.0	22961.9	23806.6	20631.7	20442.4	19233.6	18990.9
60°	9315.8	9340.1	9480.9	10883.8	15500.5	23350.2	27898.9	24073.6	23258.0	20622.0	20287.0
62.5°	6505.1	6456.5	6509.9	7296.3	11082.9	21796.8	30666.0	28258.2	27471.7	22199.7	22005.5
65°	4655.5	4592.4	4806.0	5286.6	6655.5	16665.6	31059.2	33831.1	33127.2	24719.2	24253.2
67.5°	3349.6	3339.9	3587.5	4461.3	4728.3	9597.4	28146.5	38879.8	38452.6	27709.6	25622.1
69°	2771.9	2776.8	3014.7	3995.3	4514.7	6553.6	24219.2	39748.8	39671.1	29253.3	25364.9
70°	2417.6	2437.0	2713.7	3718.6	4427.3	5388.5	20879.3	38894.4	38816.7	29554.3	24515.3
72.5°	1490.3	1504.9	1869.0	2980.7	4208.9	4398.2	12485.8	31821.4	32088.4	28175.6	21122.0
75°	713.6	718.5	980.6	2155.4	4058.4	4170.0	6689.5	23481.3	24044.4	22748.3	16505.4
77.5°	378.7	378.7	470.9	1145.7	3286.5	3922.5	3971.0	16563.6	17029.7	14383.9	9383.8
80°	189.3	194.2	286.4	597.1	2038.9	3844.8	3102.0	9878.9	10131.4	5869.1	2922.4
82.5°	72.8	77.7	135.9	359.2	1058.3	3247.7	2723.4	4859.4	4796.3	1373.8	713.6
85°	9.7	9.7	48.5	213.6	451.5	1432.1	2247.6	2029.2	1961.2	301.0	344.7
87.5°	0.0	0.0	9.7	63.1	135.9	417.5	869.0	558.3	621.4	82.5	169.9
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°	9073.1	9073.1	9073.1	9073.1	9073.1	9073.1	9073.1	9073.1	9073.1	9073.1	9073.1
2.5°	9213.9	9111.9	8956.6	8806.1	8645.9	8451.7	8238.1	8160.4	8024.5	8014.8	8092.5
5°	9204.2	9039.1	8767.3	8446.9	7990.5	7645.9	7272.1	7000.2	6791.5	6655.5	6689.5
7.5°	9252.7	9053.7	8582.8	7893.4	7306.1	6621.6	6043.9	5645.8	5281.7	5102.1	5082.7
10°	9175.0	8908.0	8218.7	7252.7	6388.5	5432.2	4587.5	4053.5	3509.8	3310.8	3320.5
12.5°	9218.7	8844.9	7825.5	6592.4	5403.1	4160.3	3150.6	2422.4	1912.7	1747.6	1728.2
15°	9247.9	8709.0	7446.8	5801.1	4310.8	2835.0	1825.3	1373.8	1213.6	1184.5	1179.6
17.5°	9136.2	8544.0	6912.8	5019.6	3194.3	1723.4	1213.6	1121.4	1092.3	1072.8	1063.1
20°	9131.3	8446.9	6451.7	4218.6	2131.1	1174.8	1048.6	1014.6	970.9	956.3	956.3
22.5°	9048.8	8243.0	5898.2	3339.9	1359.3	1009.7	941.8	888.4	839.8	820.4	815.6
25°	9024.6	8005.1	5378.8	2509.8	1034.0	902.9	835.0	757.3	699.1	669.9	655.4
27.5°	8956.6	7801.2	4854.5	1767.0	902.9	805.9	718.5	635.9	568.0	524.3	519.4
30°	8713.9	7587.6	4272.0	1223.3	820.4	713.6	616.5	519.4	451.5	422.3	412.6
32.5°	8611.9	7388.6	3636.0	941.8	747.6	631.1	519.4	432.1	378.7	349.5	344.7
35°	8490.6	7097.3	3019.5	820.4	679.6	548.6	436.9	364.1	320.4	296.1	296.1
37.5°	8505.1	6864.3	2441.8	742.7	606.8	470.9	373.8	310.7	271.9	247.6	247.6
40°	8461.4	6679.8	1898.1	674.8	538.9	402.9	315.5	262.1	228.2	203.9	199.0
42.5°	8660.5	6631.3	1432.1	616.5	470.9	344.7	271.9	223.3	189.3	160.2	160.2
45°	8995.4	6708.9	1116.5	563.1	402.9	296.1	233.0	184.5	150.5	131.1	126.2
47.5°	9888.7	7014.8	873.8	519.4	344.7	257.3	194.2	150.5	121.4	101.9	97.1
50°	11184.8	7699.3	742.7	456.3	291.3	218.5	160.2	116.5	97.1	77.7	72.8
52.5°	13029.5	8849.8	674.8	402.9	242.7	179.6	126.2	92.2	72.8	58.3	53.4
55°	15039.3	10286.7	611.7	339.8	203.9	145.6	101.9	72.8	53.4	38.8	34.0
57.5°	16607.3	11529.5	558.3	281.6	165.1	116.5	77.7	53.4	38.8	24.3	19.4
60°	18321.0	12403.3	490.3	223.3	135.9	87.4	58.3	38.8	29.1	14.6	14.6
62.5°	20088.0	13427.6	402.9	174.8	106.8	68.0	43.7	29.1	19.4	4.9	4.9
65°	22544.4	14228.6	310.7	135.9	82.5	48.5	34.0	24.3	9.7	0.0	0.0
67.5°	23238.6	13835.4	228.2	106.8	58.3	34.0	24.3	14.6	4.9	0.0	0.0
69°	22544.4	12461.5	199.0	92.2	48.5	29.1	19.4	9.7	4.9	0.0	0.0
70°	21277.4	11393.6	174.8	77.7	43.7	29.1	14.6	9.7	4.9	0.0	0.0
72.5°	17796.7	8738.1	135.9	58.3	34.0	24.3	14.6	9.7	0.0	0.0	0.0
75°	13053.8	5398.2	101.9	43.7	29.1	19.4	14.6	9.7	0.0	0.0	0.0
77.5°	6995.4	1970.9	72.8	29.1	19.4	14.6	14.6	9.7	0.0	0.0	0.0
80°	1917.5	582.5	53.4	19.4	14.6	9.7	9.7	4.9	0.0	0.0	0.0
82.5°	524.3	150.5	34.0	19.4	14.6	9.7	4.9	0.0	0.0	0.0	0.0
85°	281.6	58.3	19.4	14.6	9.7	4.9	0.0	0.0	0.0	0.0	0.0
87.5°	145.6	19.4	14.6	9.7	9.7	4.9	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)