

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: P484808

Luminaire Tested: **IFLD-M-SA4C-740-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484808
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-740-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

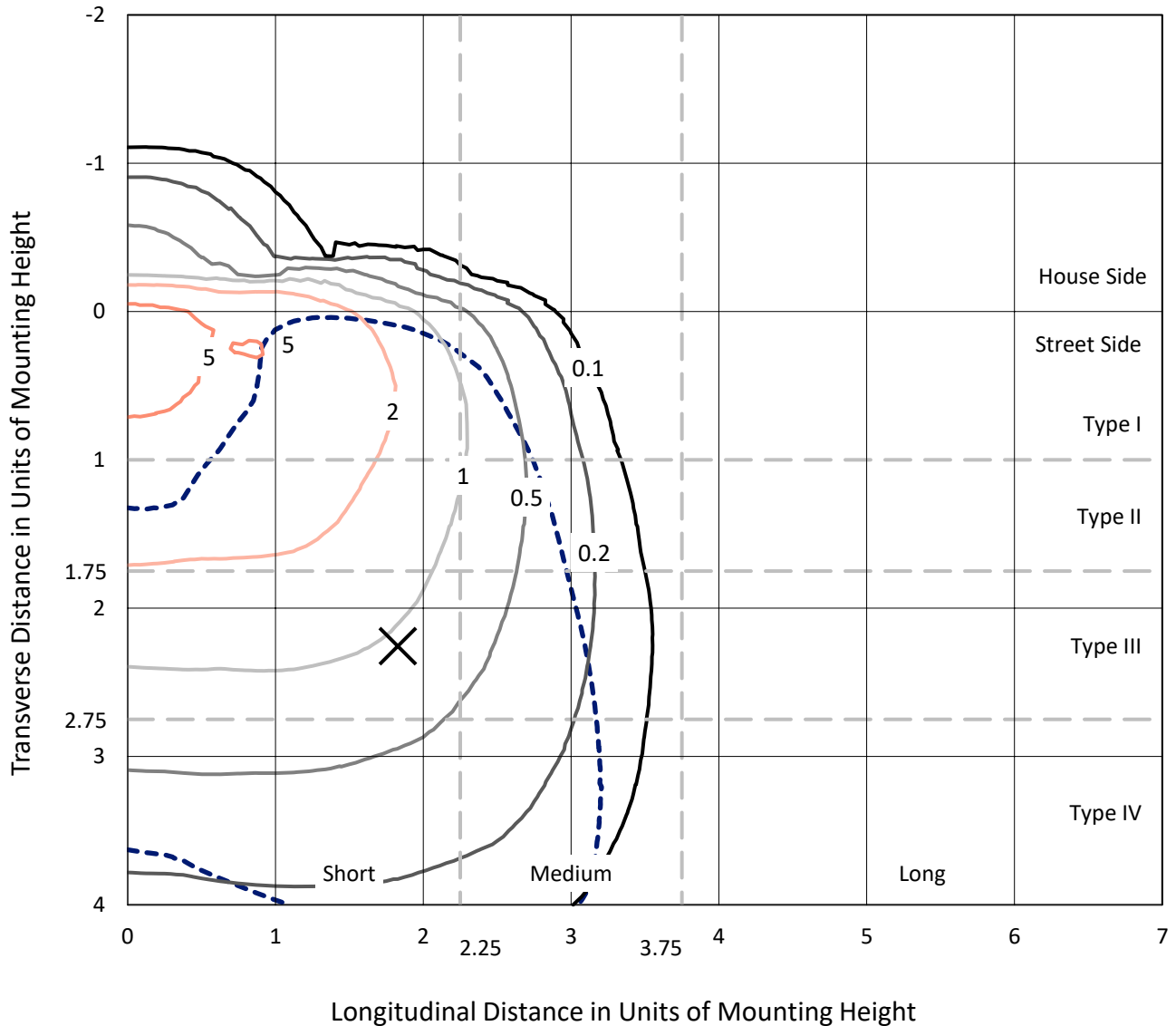
Lumens per Lamp: N/A
Luminaire Lumens: 23487.9 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1
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

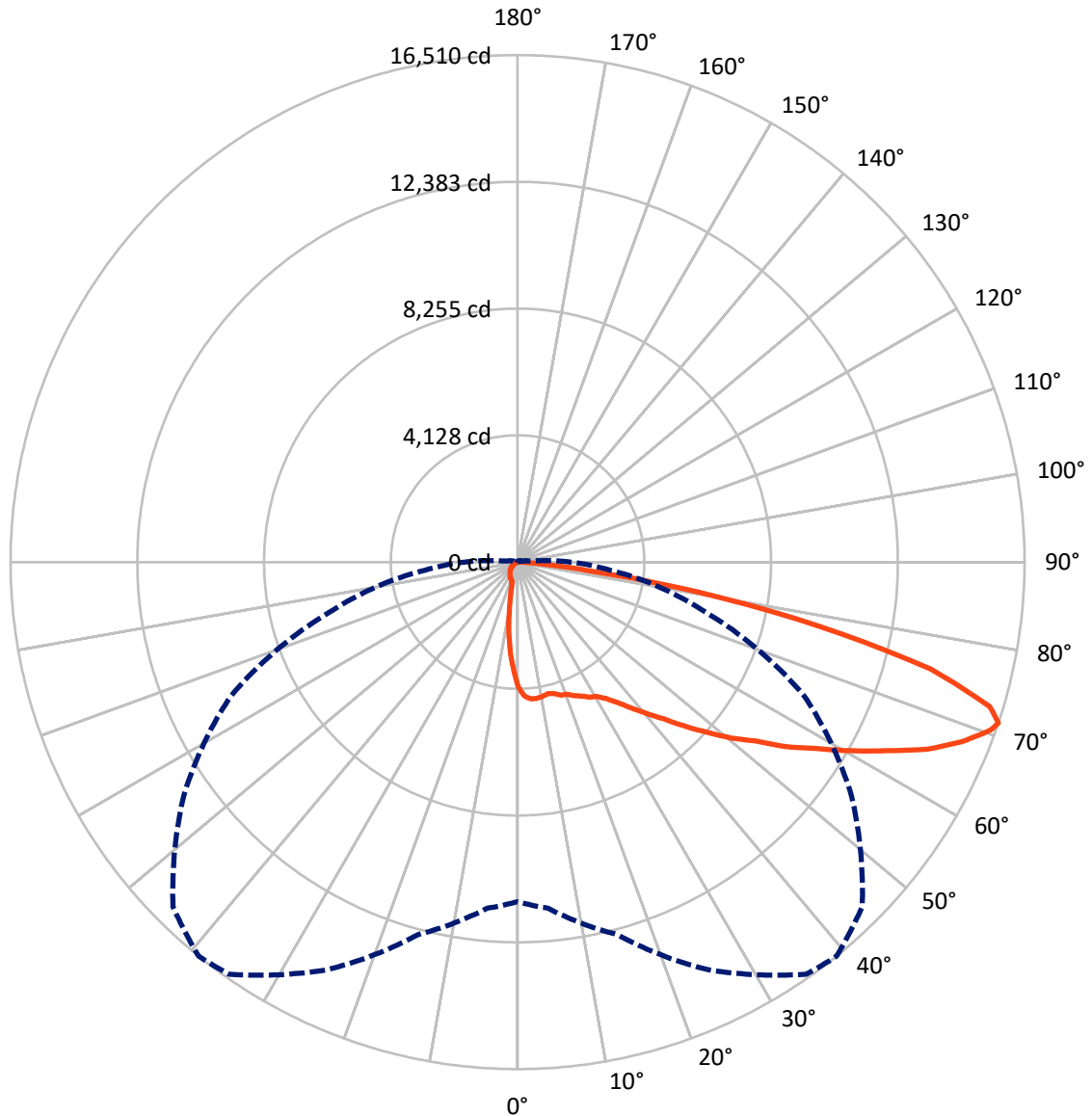
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1768.3	0.0	1768.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	21719.6	0.0	21719.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	23487.9	0.0	23487.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.8	1.5
10°-20°	841.3	3.6
20°-30°	1350.6	5.8
30°-40°	2067.4	8.8
40°-50°	3318.5	14.1
50°-60°	4874.4	20.8
60°-70°	6139.1	26.1
70°-80°	4097.1	17.4
80°-90°	457.9	1.9
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°	23487.9	100.0
0°-180°	23487.9	100.0

Coefficient of Utilization



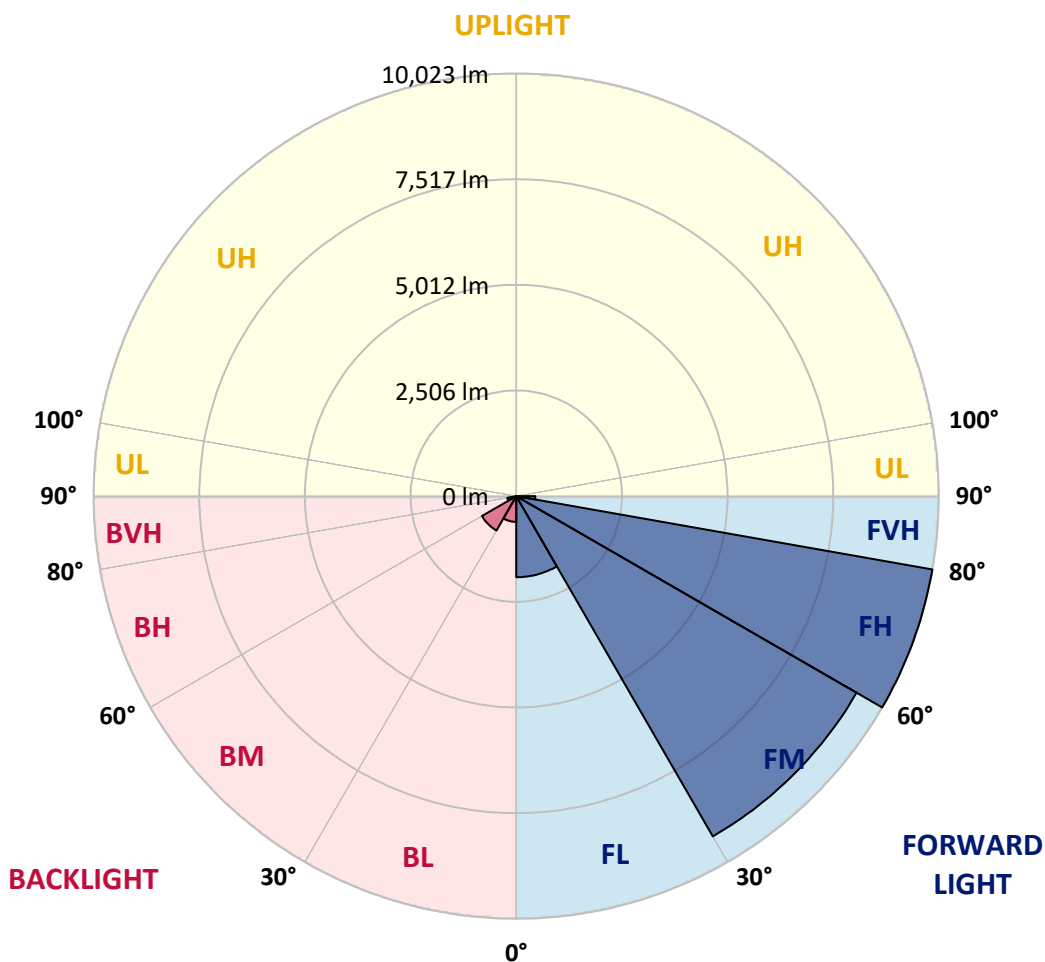
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1923.2	8.2			
FM (30°-60°)	9320.3	39.7			
FH (60°-80°)	10023.3	42.7			G4/12000
FVH (80°-90°)	452.8	1.9			G3/500
BL (0°-30°)	610.5	2.6	B2/1000		
BM (30°-60°)	939.9	4.0	B1/1000		
BH (60°-80°)	212.8	0.9	B1/500		G1/500
BVH (80°-90°)	5.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4088.2	4088.2	4088.2	4088.2	4088.2	4088.2	4088.2	4088.2	4088.2	4088.2	4088.2
2.5°	4405.5	4448.7	4405.5	4387.1	4368.6	4371.7	4322.4	4331.6	4273.1	4196.0	4134.4
5°	4544.2	4602.7	4556.5	4534.9	4531.9	4473.3	4448.7	4390.1	4319.3	4199.1	4125.2
7.5°	4531.9	4519.5	4541.1	4522.6	4482.6	4482.6	4454.8	4371.7	4300.8	4165.2	4038.9
10°	4439.4	4476.4	4457.9	4436.4	4445.6	4448.7	4396.3	4337.8	4316.2	4180.6	3974.2
12.5°	4430.2	4368.6	4436.4	4439.4	4399.4	4396.3	4390.1	4374.7	4307.0	4183.7	3989.6
15°	4399.4	4374.7	4442.5	4445.6	4454.8	4445.6	4454.8	4442.5	4374.7	4303.9	4057.4
17.5°	4424.0	4396.3	4491.8	4538.0	4516.5	4559.6	4544.2	4488.7	4430.2	4347.0	4122.1
20°	4430.2	4470.2	4575.0	4593.5	4661.2	4590.4	4587.3	4528.8	4491.8	4402.5	4162.2
22.5°	4544.2	4562.7	4692.1	4732.1	4735.2	4725.9	4648.9	4581.1	4565.7	4454.8	4171.4
25°	4716.7	4781.4	4839.9	4864.6	4873.8	4830.7	4750.6	4664.3	4627.4	4556.5	4266.9
27.5°	5021.7	4981.7	5034.0	5071.0	4966.2	4981.7	4880.0	4806.0	4753.7	4692.1	4377.8
30°	5292.8	5255.8	5258.9	5252.8	5163.4	5080.2	5052.5	4923.1	4858.4	4883.1	4550.3
32.5°	5536.2	5456.1	5523.9	5493.1	5326.7	5302.1	5280.5	5117.2	5129.5	5243.5	4809.1
35°	5761.1	5733.4	5788.8	5733.4	5622.5	5616.3	5594.7	5453.0	5520.8	5684.1	5252.8
37.5°	5967.5	5976.8	6044.5	6016.8	6026.0	6032.2	6019.9	5868.9	6063.0	6429.6	5770.3
40°	6158.5	6146.2	6312.6	6398.8	6417.3	6485.1	6485.1	6448.1	6747.0	7159.8	6488.2
42.5°	6361.9	6392.7	6608.3	6753.1	6928.7	6987.3	7067.4	7085.8	7548.0	8019.3	7221.4
45°	6694.6	6642.2	6916.4	7258.4	7412.4	7618.8	7742.0	7846.8	8404.4	9051.4	7954.6
47.5°	7116.6	7011.9	7252.2	7748.2	8105.6	8275.0	8496.8	8635.5	9180.8	9849.3	8647.8
50°	7584.9	7477.1	7594.2	8278.1	8694.0	9002.1	9285.5	9461.1	10120.4	10742.7	9153.1
52.5°	8114.8	8016.2	8034.7	8829.6	9442.6	9667.5	10040.3	10302.2	10958.4	11281.9	9331.7
55°	8678.6	8654.0	8595.4	9368.7	10098.9	10604.1	10829.0	11143.3	11817.9	11574.6	9525.8
57.5°	9245.5	9168.5	9251.6	10083.5	11152.5	11454.4	11765.6	11953.5	12295.5	11830.3	9451.9
60°	9778.5	9784.6	9901.7	10859.8	12049.0	12477.2	12757.6	12643.6	12785.3	11941.2	9282.4
62.5°	10228.3	10215.9	10511.7	11731.7	13235.1	13524.7	13734.2	13225.9	13013.3	12049.0	8986.7
65°	10631.8	10770.5	11235.7	12769.9	14350.4	14683.1	14556.8	13777.3	13235.1	11731.7	8154.9
67.5°	10936.8	11143.3	11950.4	13746.5	15373.2	15607.3	15431.7	14196.3	12973.2	10487.0	6642.2
70°	11115.5	11325.0	12461.8	14559.9	16189.6	16359.0	15946.2	13872.8	11445.2	7594.2	4143.7
71°	11060.1	11315.8	12560.4	14646.1	16383.7	16510.0	15869.2	13275.2	10292.9	6358.8	3022.3
72.5°	10557.9	10798.2	12150.7	14584.5	16149.5	16072.5	15268.4	11839.5	8102.5	4054.3	1562.0
75°	7757.5	8016.2	10428.5	12615.9	14415.1	13885.2	12357.1	8308.9	4226.9	1241.6	456.0
77.5°	3863.3	3906.5	6472.8	9159.2	10573.3	10046.5	8281.2	4633.5	1580.4	366.6	228.0
80°	1780.7	1793.0	2427.7	4744.4	6392.7	6016.8	4639.7	2286.0	714.7	194.1	178.7
82.5°	1213.8	1232.3	1463.4	1965.5	2775.8	2341.4	1879.3	1463.4	409.7	117.1	175.6
85°	221.8	203.3	819.5	1041.3	1072.1	727.1	650.0	1266.2	154.0	67.8	154.0
87.5°	0.0	3.1	114.0	425.2	382.0	169.4	221.8	308.1	15.4	21.6	27.7
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°	4088.2	4088.2	4088.2	4088.2	4088.2	4088.2	4088.2	4088.2	4088.2	4088.2	4088.2
2.5°	4082.1	4048.2	3934.2	3807.9	3693.9	3604.5	3490.5	3438.2	3355.0	3308.8	3305.7
5°	4023.5	3931.1	3733.9	3521.4	3284.1	3087.0	2868.2	2745.0	2603.3	2560.1	2550.9
7.5°	3924.9	3792.5	3502.9	3204.0	2840.5	2492.4	2224.3	1937.8	1762.2	1688.3	1660.6
10°	3863.3	3703.1	3308.8	2862.1	2353.7	1863.9	1488.0	1183.0	1022.8	945.8	927.3
12.5°	3863.3	3690.8	3151.7	2535.5	1860.8	1275.5	921.2	745.6	693.2	674.7	674.7
15°	3854.1	3666.2	3000.7	2199.7	1377.1	856.5	687.0	650.0	643.9	640.8	637.7
17.5°	3900.3	3623.0	2846.7	1839.2	973.5	674.7	631.6	625.4	619.2	619.2	613.1
20°	3934.2	3598.4	2661.8	1457.2	727.1	625.4	606.9	597.7	594.6	591.5	597.7
22.5°	3906.5	3561.4	2433.8	1090.6	634.6	594.6	582.3	573.0	566.9	566.9	569.9
25°	3958.8	3527.5	2205.9	822.6	594.6	566.9	554.5	548.4	545.3	542.2	536.1
27.5°	4029.7	3542.9	1934.7	662.4	560.7	539.1	526.8	520.7	517.6	511.4	517.6
30°	4115.9	3539.8	1635.9	579.2	529.9	508.3	496.0	492.9	486.8	483.7	486.8
32.5°	4263.8	3619.9	1327.8	536.1	496.0	477.5	465.2	462.1	459.0	456.0	452.9
35°	4581.1	3718.5	1038.2	502.2	465.2	443.6	434.4	428.2	425.2	422.1	419.0
37.5°	4972.4	3937.3	791.8	471.4	434.4	412.8	403.6	400.5	388.2	385.1	382.0
40°	5462.3	4171.4	610.0	437.5	406.7	385.1	375.9	366.6	351.2	345.0	338.9
42.5°	6072.3	4399.4	502.2	406.7	375.9	360.5	345.0	329.6	317.3	305.0	298.8
45°	6682.3	4664.3	440.6	378.9	351.2	332.7	320.4	298.8	277.3	258.8	255.7
47.5°	7190.6	4759.8	403.6	348.1	326.6	311.2	292.7	264.9	234.1	215.7	212.6
50°	7569.5	4704.4	366.6	317.3	298.8	283.4	258.8	224.9	194.1	175.6	169.4
52.5°	7643.5	4461.0	332.7	292.7	271.1	252.6	224.9	187.9	154.0	135.6	132.5
55°	7591.1	4057.4	305.0	271.1	246.5	218.7	187.9	151.0	120.2	101.7	98.6
57.5°	7483.3	3579.9	274.2	243.4	215.7	187.9	154.0	123.2	89.3	70.9	70.9
60°	7116.6	2929.8	243.4	212.6	184.8	160.2	126.3	89.3	61.6	46.2	43.1
62.5°	6605.2	2252.1	212.6	181.8	160.2	132.5	98.6	64.7	37.0	24.6	24.6
65°	5671.8	1577.4	178.7	151.0	132.5	107.8	73.9	40.1	21.6	9.2	9.2
67.5°	4310.0	976.6	147.9	126.3	114.0	86.3	52.4	24.6	9.2	3.1	0.0
70°	2473.9	508.3	117.1	101.7	89.3	64.7	37.0	12.3	6.2	0.0	0.0
71°	1728.3	375.9	104.7	89.3	80.1	58.5	30.8	9.2	3.1	0.0	0.0
72.5°	865.7	249.5	89.3	73.9	64.7	46.2	24.6	9.2	3.1	0.0	0.0
75°	308.1	160.2	61.6	49.3	46.2	33.9	15.4	6.2	3.1	0.0	0.0
77.5°	212.6	129.4	43.1	30.8	30.8	21.6	9.2	3.1	3.1	0.0	0.0
80°	194.1	70.9	27.7	18.5	15.4	12.3	6.2	3.1	0.0	0.0	0.0
82.5°	194.1	52.4	15.4	12.3	9.2	6.2	3.1	0.0	0.0	0.0	0.0
85°	135.6	27.7	9.2	9.2	6.2	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	21.6	9.2	6.2	3.1	3.1	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)