

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: P484419

Luminaire Tested: **IFLD-M-SA4D-740-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484419
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-740-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

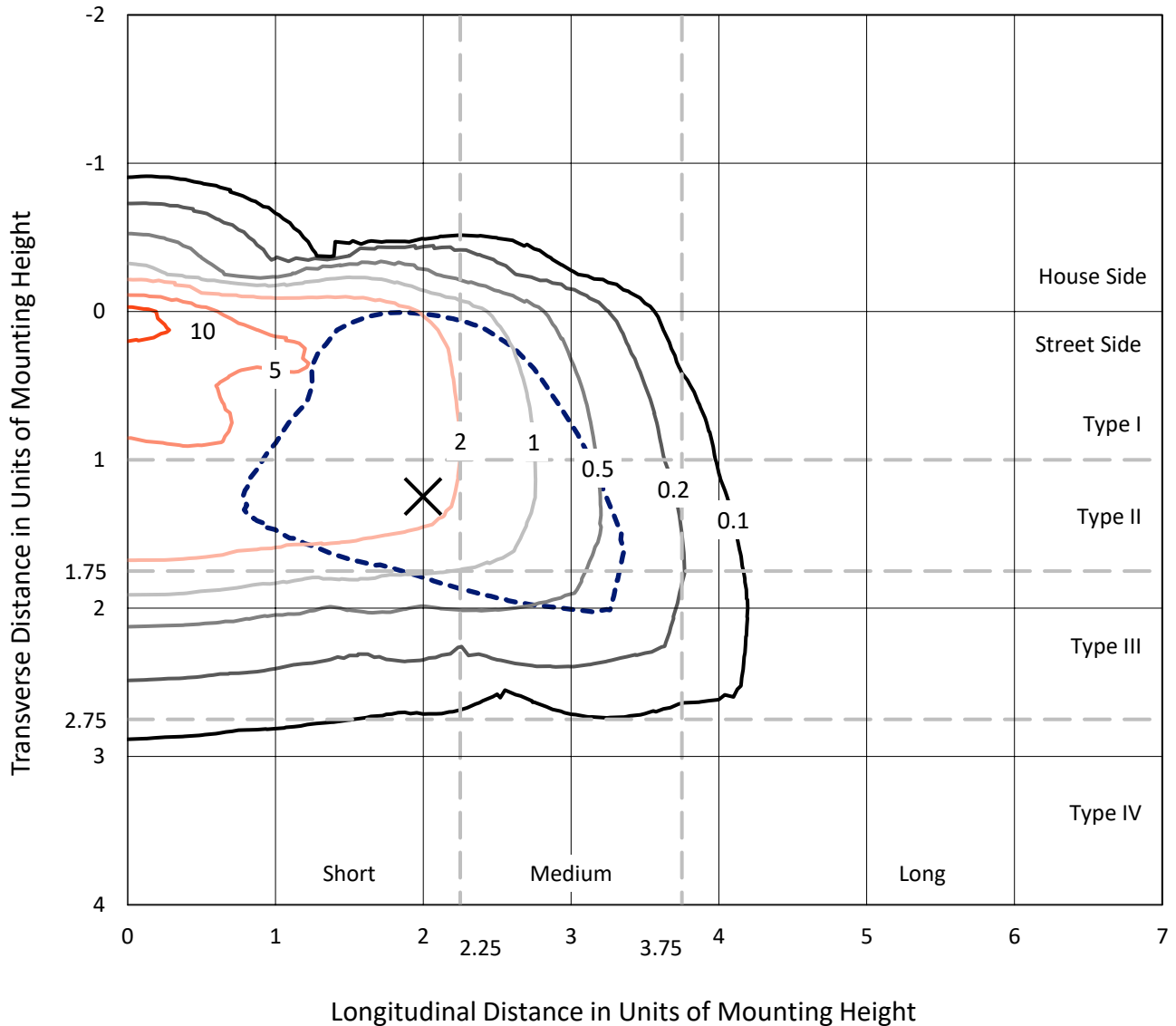
Lumens per Lamp: N/A
Luminaire Lumens: 26162.6 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7
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

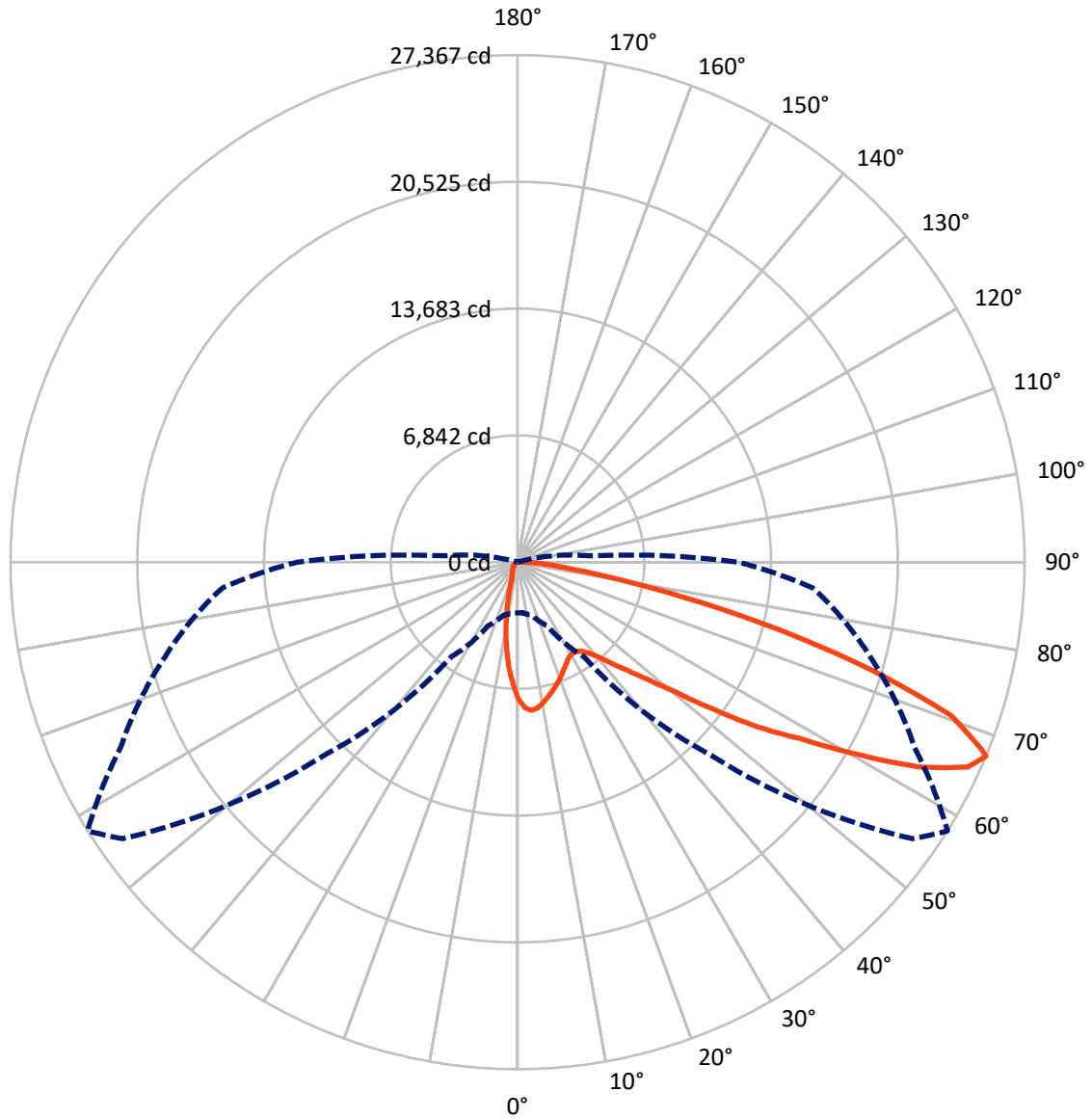
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	2162.5	0.0	2162.5
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	24000.1	0.0	24000.1
	% Fixture	91.7	0.0	91.7
Total	Lumens	26162.6	0.0	26162.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.1	2.2
10°-20°	1219.9	4.7
20°-30°	1618.5	6.2
30°-40°	2242.7	8.6
40°-50°	3659.5	14.0
50°-60°	6432.3	24.6
60°-70°	7124.3	27.2
70°-80°	2952.3	11.3
80°-90°	325.0	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°	26162.6	100.0
0°-180°	26162.6	100.0



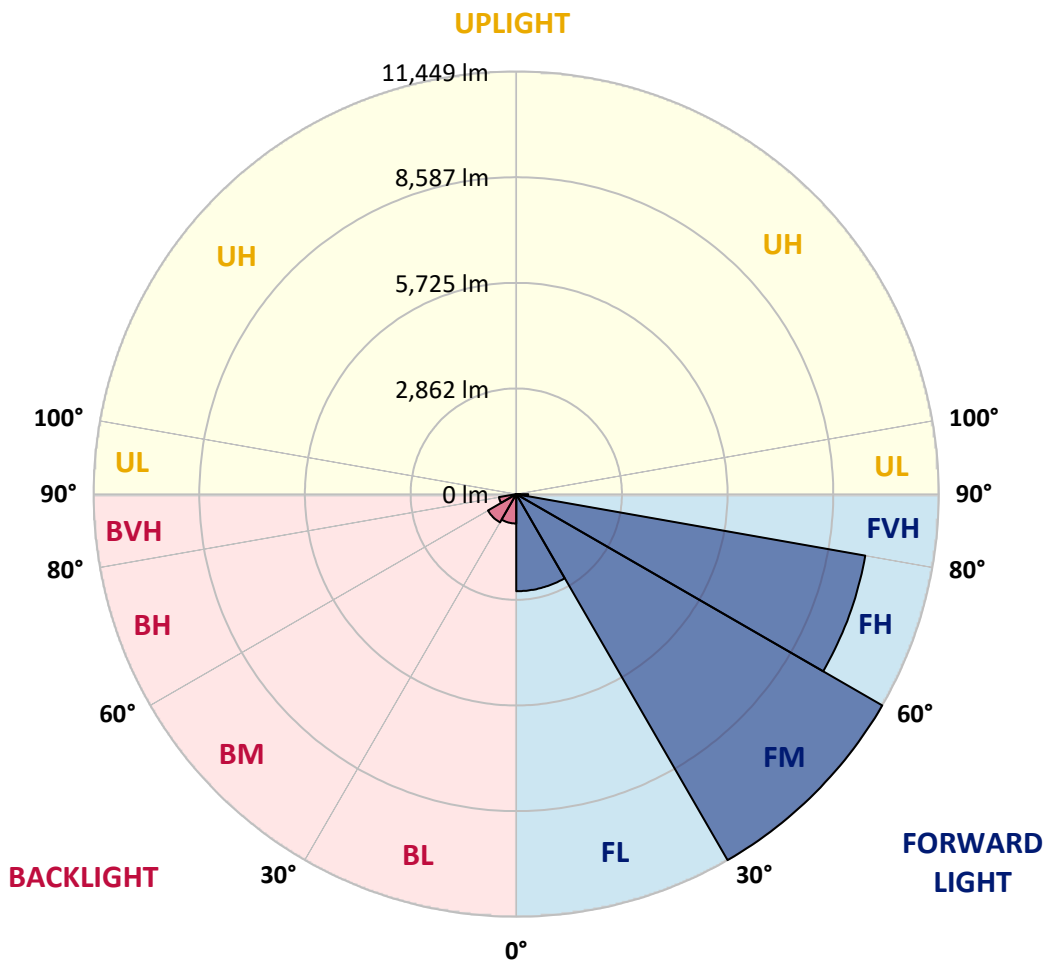
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2630.1	10.1			
FM (30°-60°)	11449.3	43.8			
FH (60°-80°)	9601.1	36.7			G4/12000
FVH (80°-90°)	319.6	1.2			G3/500
BL (0°-30°)	796.5	3.0	B2/1000		
BM (30°-60°)	885.2	3.4	B1/1000		
BH (60°-80°)	475.5	1.8	B1/500		G1/500
BVH (80°-90°)	5.3	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°	7412.2	7412.2	7412.2	7412.2	7412.2	7412.2	7412.2	7412.2	7412.2	7412.2	7412.2
2.5°	8065.2	8093.0	8117.3	8072.2	8110.4	8054.8	7912.4	7881.1	7856.8	7644.9	7523.4
5°	8061.7	8030.5	8054.8	8075.6	8023.5	8065.2	8030.5	8034.0	7940.2	7749.1	7408.7
7.5°	7523.4	7509.5	7523.4	7624.1	7738.7	7829.0	7881.1	7933.2	7870.7	7585.9	7255.9
10°	6797.4	6866.9	6905.1	7085.7	7262.9	7429.6	7592.8	7690.1	7672.7	7558.1	7089.2
12.5°	6290.3	6269.5	6408.4	6526.5	6703.6	7040.6	7325.4	7415.7	7519.9	7360.1	6870.4
15°	5821.4	5765.8	5849.2	6054.1	6356.3	6623.8	7023.2	7158.7	7290.7	7332.3	6752.3
17.5°	5373.3	5401.1	5488.0	5672.1	5956.9	6332.0	6707.1	6901.6	7217.7	7162.1	6575.1
20°	5158.0	5217.0	5248.3	5342.1	5540.1	5915.2	6474.4	6630.7	6967.6	7158.7	6401.5
22.5°	5168.4	5168.4	5095.5	5151.0	5331.7	5623.4	6158.3	6332.0	6866.9	6978.0	6245.2
25°	5279.6	5210.1	5213.6	5147.6	5224.0	5383.8	5873.5	6085.4	6662.0	6995.4	6161.8
27.5°	5362.9	5349.0	5328.2	5310.8	5213.6	5237.9	5685.9	5859.6	6582.1	6974.6	6033.3
30°	5665.1	5602.6	5581.7	5543.5	5415.0	5296.9	5536.6	5755.4	6519.6	7023.2	5960.3
32.5°	5918.7	5929.1	5946.4	5835.3	5724.2	5432.4	5578.3	5751.9	6474.4	7134.3	6033.3
35°	6238.2	6283.4	6290.3	6255.6	6137.5	5849.2	5751.9	5901.3	6550.8	7332.3	6040.2
37.5°	6724.5	6675.9	6807.9	6821.7	6738.4	6356.3	6154.9	6213.9	6776.6	7648.4	6304.2
40°	7040.6	7099.6	7346.2	7499.1	7356.6	7009.3	6738.4	6728.0	7103.1	8145.1	6630.7
42.5°	7391.4	7523.4	7794.3	8124.3	8106.9	7783.9	7509.5	7464.3	7683.1	8864.1	7148.2
45°	7870.7	7988.8	8367.4	8864.1	9135.0	8860.6	8447.3	8357.0	8388.2	9843.6	8030.5
47.5°	8666.1	8634.9	9180.2	9669.9	10114.5	9902.6	9725.5	9461.5	9437.2	10996.8	9249.6
50°	9565.7	9558.8	10045.1	10600.8	11114.9	11528.2	11233.0	10944.7	10951.6	12563.3	10684.2
52.5°	10420.2	10555.6	11080.1	11632.4	12514.6	12959.2	13244.0	13129.4	12577.2	13963.0	12219.4
55°	10871.7	10989.8	11510.8	12462.5	13855.4	14998.1	15769.2	15672.0	14605.6	15540.0	13733.8
57.5°	10444.5	10524.4	11229.5	12476.4	14793.2	17342.7	18082.5	17960.9	16703.5	16745.2	15564.3
60°	8655.7	8780.7	9829.7	11292.0	14428.5	19148.8	21267.6	21083.5	18613.9	18270.0	16741.8
62.5°	5995.1	6078.4	6939.8	8759.9	12698.7	19777.5	24275.5	24376.3	20628.5	19457.9	17092.6
65°	3883.3	3876.3	4369.5	5602.6	8999.6	17874.1	26053.9	26679.1	22573.6	19638.6	16984.9
67°	2744.0	2733.6	2966.3	3799.9	6231.3	14727.2	26022.7	27366.9	23629.5	19690.7	15988.0
67.5°	2532.1	2521.7	2744.0	3494.2	5623.4	13695.6	25633.6	27012.6	24001.1	19617.7	15550.4
70°	1965.9	1938.2	2021.5	2407.1	3275.4	8857.2	21938.0	24813.9	23230.1	17797.7	12417.4
72.5°	1420.6	1451.9	1583.9	1976.4	2570.3	4765.5	16720.9	20065.8	19402.4	13414.2	7891.5
75°	989.9	1017.7	1229.6	1611.7	2358.4	2889.9	11305.9	14553.5	13515.0	7405.3	3362.2
77.5°	517.5	552.3	785.0	1288.6	2143.1	2236.9	6755.8	9228.8	7162.1	2636.3	927.4
80°	239.7	257.0	392.5	913.5	1792.3	1965.9	3938.8	5133.7	2865.5	590.5	319.6
82.5°	104.2	114.6	180.6	524.5	1271.3	1719.3	2438.3	2691.9	1038.5	191.0	198.0
85°	20.8	24.3	69.5	277.9	614.8	1042.0	1712.4	1597.8	521.0	93.8	156.3
87.5°	0.0	0.0	17.4	79.9	166.7	309.1	725.9	725.9	159.8	48.6	59.0
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°	7412.2	7412.2	7412.2	7412.2	7412.2	7412.2	7412.2	7412.2	7412.2	7412.2	7412.2
2.5°	7415.7	7290.7	7016.3	6762.7	6582.1	6377.2	6106.2	5984.7	5939.5	5877.0	5783.2
5°	7221.2	7068.4	6599.4	6127.1	5609.5	5217.0	4800.2	4557.1	4373.0	4258.4	4220.2
7.5°	6946.8	6634.2	6002.0	5244.8	4574.5	3990.9	3358.8	2931.5	2657.1	2546.0	2441.8
10°	6728.0	6321.6	5359.4	4418.2	3525.5	2671.0	1959.0	1583.9	1299.0	1191.4	1177.5
12.5°	6443.1	5956.9	4758.5	3574.1	2452.2	1590.8	1083.7	941.3	861.4	847.5	837.1
15°	6207.0	5626.9	4188.9	2768.3	1587.3	993.4	844.0	809.3	788.5	781.5	785.0
17.5°	6047.2	5272.6	3605.4	2014.6	1045.5	812.8	778.0	757.2	746.8	743.3	732.9
20°	5731.1	4973.9	3028.8	1410.2	816.2	750.3	722.5	705.1	694.7	691.2	687.7
22.5°	5550.5	4595.3	2452.2	983.0	725.9	680.8	659.9	646.1	628.7	618.3	614.8
25°	5369.9	4317.4	1938.2	764.1	659.9	628.7	597.4	580.1	552.3	538.4	534.9
27.5°	5158.0	4043.0	1493.6	663.4	594.0	562.7	531.4	503.6	468.9	455.0	448.1
30°	5036.4	3775.6	1125.4	594.0	545.3	503.6	465.4	430.7	392.5	368.2	361.2
32.5°	4973.9	3532.4	844.0	541.8	493.2	448.1	399.4	357.8	323.0	302.2	298.7
35°	4897.5	3296.3	663.4	493.2	444.6	396.0	347.3	305.7	270.9	253.6	246.6
37.5°	4977.4	3157.3	552.3	455.0	406.4	350.8	298.7	257.0	229.2	211.9	208.4
40°	5196.2	3042.7	479.3	420.3	368.2	309.1	260.5	218.8	194.5	180.6	173.7
42.5°	5533.1	3042.7	434.2	385.5	333.4	270.9	222.3	191.0	166.7	152.8	149.4
45°	6144.4	3136.5	396.0	350.8	291.8	232.7	191.0	159.8	135.5	121.6	118.1
47.5°	7002.4	3351.8	364.7	319.6	260.5	204.9	166.7	135.5	111.1	97.3	93.8
50°	8155.5	3841.6	333.4	281.3	232.7	177.1	138.9	107.7	86.8	72.9	69.5
52.5°	9593.5	4536.3	302.2	260.5	198.0	149.4	111.1	86.8	66.0	55.6	52.1
55°	11114.9	5387.2	264.0	232.7	170.2	125.0	90.3	66.0	48.6	41.7	38.2
57.5°	12646.6	6043.7	232.7	201.5	138.9	100.7	72.9	52.1	34.7	27.8	24.3
60°	13459.4	6106.2	201.5	166.7	111.1	79.9	55.6	38.2	24.3	17.4	13.9
62.5°	13584.4	5550.5	173.7	135.5	90.3	62.5	38.2	27.8	13.9	6.9	6.9
65°	12941.9	4626.6	149.4	107.7	69.5	45.2	27.8	17.4	6.9	3.5	0.0
67°	11899.8	3876.3	128.5	90.3	55.6	34.7	20.8	10.4	3.5	0.0	0.0
67.5°	11496.9	3667.9	121.6	83.4	52.1	31.3	17.4	10.4	3.5	0.0	0.0
70°	8923.1	2618.9	90.3	59.0	38.2	24.3	13.9	6.9	0.0	0.0	0.0
72.5°	5467.1	1531.8	69.5	41.7	27.8	17.4	10.4	3.5	0.0	0.0	0.0
75°	2292.4	528.0	59.0	31.3	20.8	10.4	6.9	3.5	0.0	0.0	0.0
77.5°	597.4	198.0	41.7	20.8	13.9	10.4	6.9	3.5	0.0	0.0	0.0
80°	243.1	90.3	27.8	13.9	13.9	10.4	6.9	3.5	0.0	0.0	0.0
82.5°	159.8	41.7	17.4	13.9	10.4	6.9	3.5	0.0	0.0	0.0	0.0
85°	121.6	24.3	10.4	10.4	6.9	3.5	0.0	0.0	0.0	0.0	0.0
87.5°	52.1	13.9	10.4	6.9	6.9	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)