

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: P484663

Luminaire Tested: **IFLD-L-SA8D-722-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484663
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-722-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

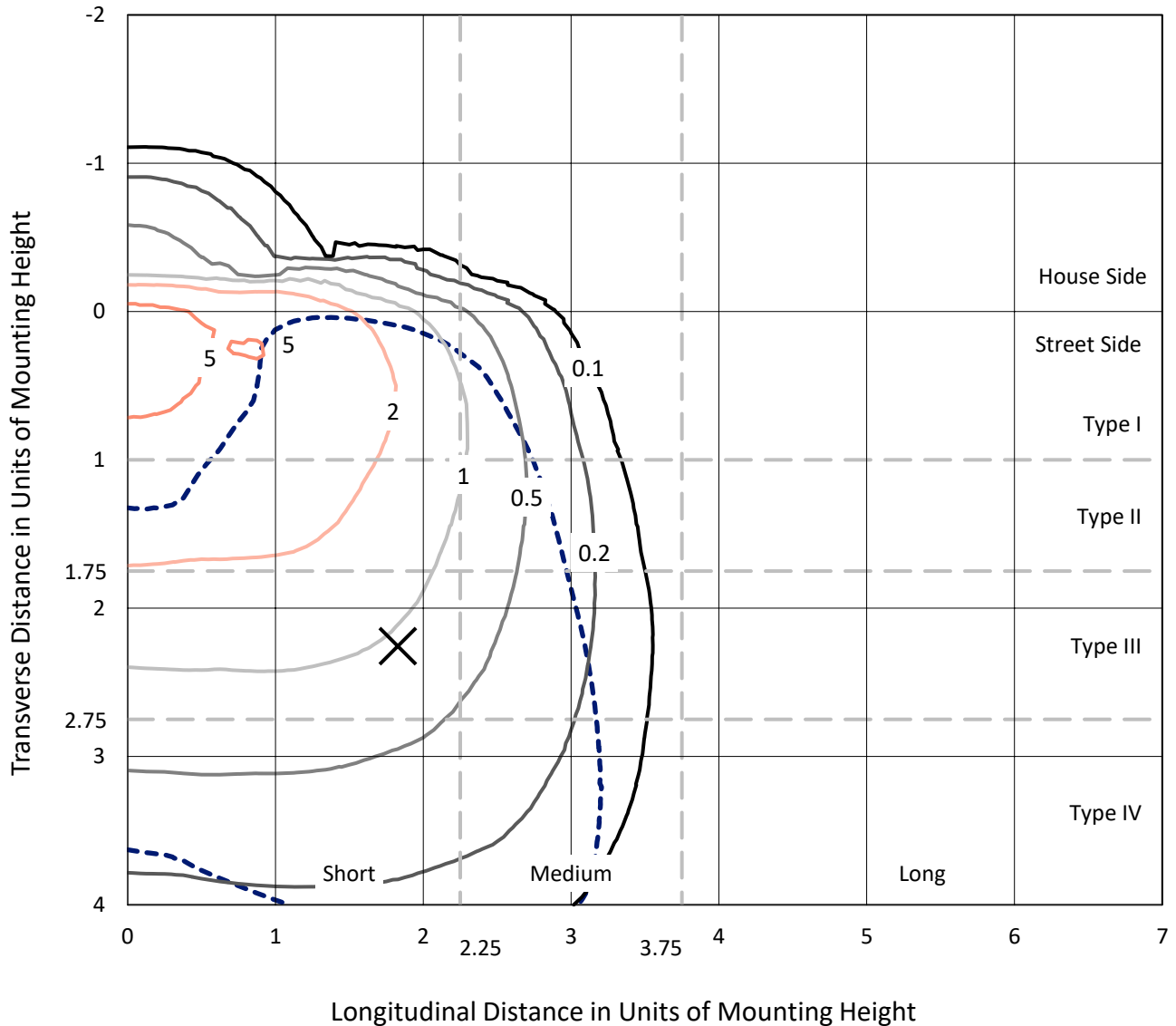
Lumens per Lamp: N/A
Luminaire Lumens: 33923.4 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 488.3
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

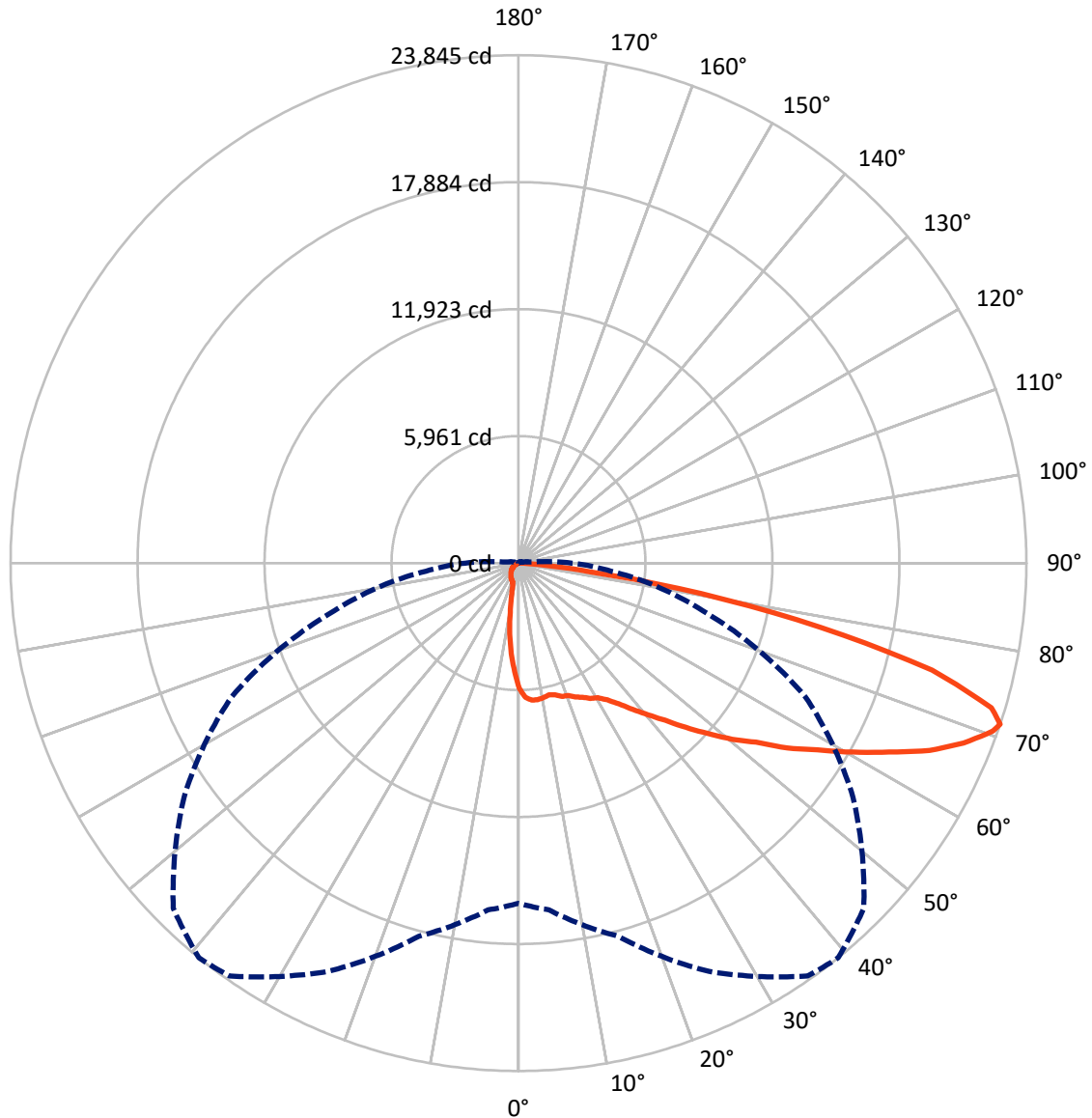
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	2553.9	0.0	2553.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	31369.6	0.0	31369.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	33923.4	0.0	33923.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.7	1.5
10°-20°	1215.1	3.6
20°-30°	1950.6	5.8
30°-40°	2985.9	8.8
40°-50°	4792.9	14.1
50°-60°	7040.0	20.8
60°-70°	8866.6	26.1
70°-80°	5917.4	17.4
80°-90°	661.3	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°	33923.4	100.0
0°-180°	33923.4	100.0

Coefficient of Utilization



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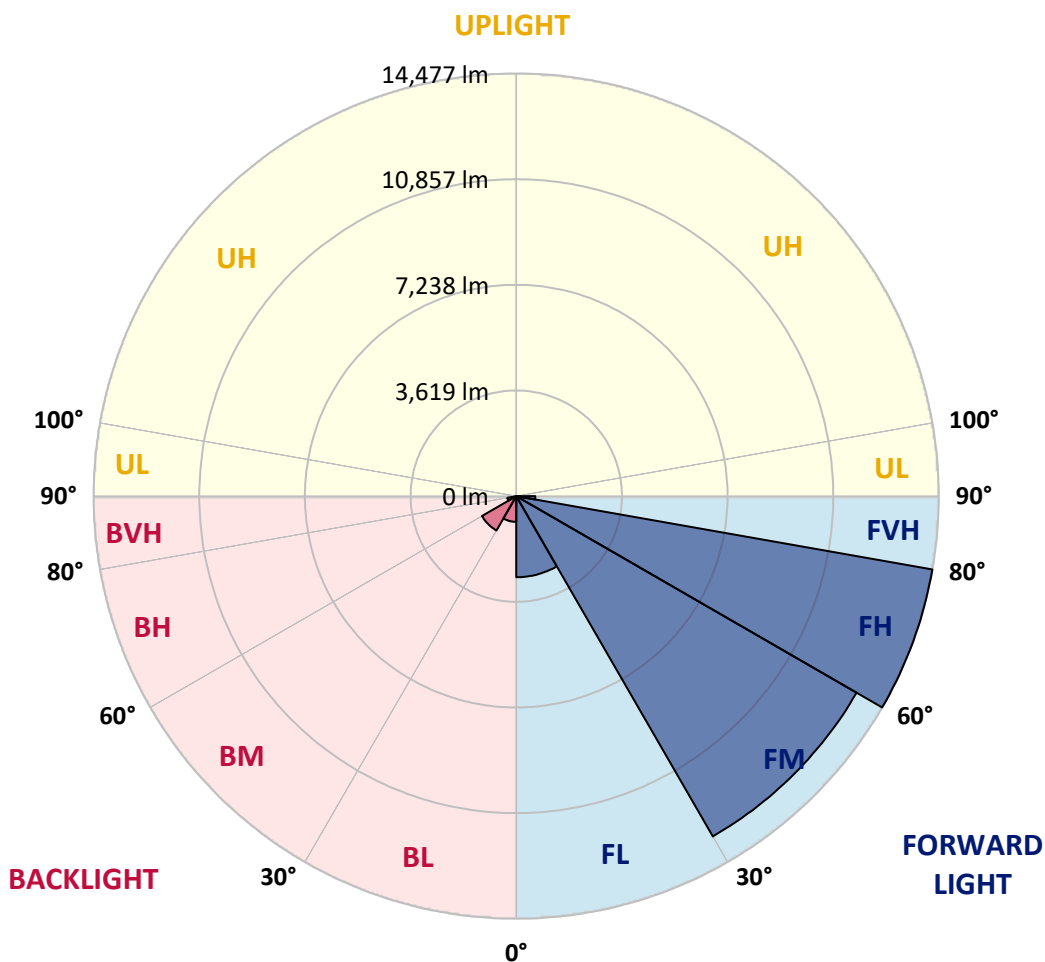
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2777.6	8.2			
FM (30°-60°)	13461.3	39.7			
FH (60°-80°)	14476.6	42.7			G5
FVH (80°-90°)	654.0	1.9			G4/750
BL (0°-30°)	881.7	2.6	B2/1000		
BM (30°-60°)	1357.5	4.0	B2/2500		
BH (60°-80°)	307.4	0.9	B1/500		G1/500
BVH (80°-90°)	7.3	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6
2.5°	6362.9	6425.2	6362.9	6336.2	6309.5	6314.0	6242.8	6256.1	6171.6	6060.3	5971.3
5°	6563.1	6647.7	6580.9	6549.8	6545.3	6460.8	6425.2	6340.7	6238.3	6064.8	5958.0
7.5°	6545.3	6527.5	6558.7	6532.0	6474.1	6474.1	6434.1	6314.0	6211.6	6015.8	5833.4
10°	6411.8	6465.2	6438.5	6407.4	6420.7	6425.2	6349.6	6265.0	6233.9	6038.1	5740.0
12.5°	6398.5	6309.5	6407.4	6411.8	6354.0	6349.6	6340.7	6318.4	6220.5	6042.5	5762.2
15°	6354.0	6318.4	6416.3	6420.7	6434.1	6420.7	6434.1	6416.3	6318.4	6216.1	5860.1
17.5°	6389.6	6349.6	6487.5	6554.2	6523.1	6585.4	6563.1	6483.0	6398.5	6278.4	5953.5
20°	6398.5	6456.3	6607.6	6634.3	6732.2	6629.9	6625.4	6540.9	6487.5	6358.5	6011.4
22.5°	6563.1	6589.8	6776.7	6834.6	6839.0	6825.7	6714.4	6616.5	6594.3	6434.1	6024.7
25°	6812.3	6905.7	6990.3	7025.9	7039.2	6976.9	6861.3	6736.7	6683.3	6580.9	6162.7
27.5°	7252.8	7195.0	7270.6	7324.0	7172.7	7195.0	7048.1	6941.3	6865.7	6776.7	6322.9
30°	7644.4	7591.0	7595.4	7586.5	7457.5	7337.4	7297.3	7110.4	7017.0	7052.6	6572.0
32.5°	7995.9	7880.2	7978.1	7933.6	7693.3	7657.7	7626.6	7390.8	7408.6	7573.2	6945.8
35°	8320.7	8280.7	8360.8	8280.7	8120.5	8111.6	8080.4	7875.8	7973.6	8209.5	7586.5
37.5°	8618.8	8632.2	8730.1	8690.0	8703.4	8712.3	8694.5	8476.5	8756.8	9286.3	8334.1
40°	8894.7	8876.9	9117.2	9241.8	9268.5	9366.4	9366.4	9313.0	9744.6	10340.8	9370.8
42.5°	9188.4	9232.9	9544.4	9753.5	10007.1	10091.6	10207.3	10234.0	10901.5	11582.3	10429.8
45°	9668.9	9593.3	9989.3	10483.2	10705.7	11003.8	11181.8	11333.1	12138.5	13072.9	11488.8
47.5°	10278.5	10127.2	10474.3	11190.7	11706.8	11951.6	12271.9	12472.2	13259.8	14225.3	12490.0
50°	10954.9	10799.1	10968.2	11956.0	12556.7	13001.7	13411.0	13664.7	14616.9	15515.7	13219.7
52.5°	11720.2	11577.8	11604.5	12752.5	13638.0	13962.8	14501.2	14879.4	15827.2	16294.4	13477.8
55°	12534.5	12498.9	12414.3	13531.2	14585.7	15315.5	15640.3	16094.1	17068.6	16717.1	13758.1
57.5°	13353.2	13242.0	13362.1	14563.5	16107.5	16543.5	16992.9	17264.4	17758.3	17086.4	13651.3
60°	14123.0	14131.9	14301.0	15684.8	17402.3	18020.8	18425.7	18261.1	18465.8	17246.6	13406.6
62.5°	14772.6	14754.8	15182.0	16944.0	19115.4	19533.7	19836.2	19102.1	18795.0	17402.3	12979.4
65°	15355.5	15555.7	16227.6	18443.5	20726.1	21206.7	21024.3	19898.5	19115.4	16944.0	11778.0
67.5°	15796.0	16094.1	17259.9	19854.0	22203.4	22541.6	22288.0	20503.7	18737.2	15146.4	9593.3
70°	16054.1	16356.7	17998.6	21028.7	23382.5	23627.3	23031.0	20036.5	16530.2	10968.2	5984.7
71°	15974.0	16343.3	18140.9	21153.3	23662.9	23845.3	22919.8	19173.2	14866.0	9183.9	4365.0
72.5°	15248.7	15595.8	17549.1	21064.3	23324.7	23213.5	22052.1	17099.7	11702.4	5855.6	2255.9
75°	11204.0	11577.8	15061.8	18221.0	20819.6	20054.3	17847.3	12000.5	6104.8	1793.2	658.5
77.5°	5579.8	5642.1	9348.6	13228.6	15271.0	14510.1	11960.5	6692.2	2282.6	529.5	329.3
80°	2571.9	2589.7	3506.3	6852.4	9232.9	8690.0	6701.1	3301.6	1032.3	280.3	258.1
82.5°	1753.1	1779.8	2113.6	2838.8	4009.1	3381.7	2714.2	2113.6	591.8	169.1	253.6
85°	320.4	293.7	1183.6	1504.0	1548.5	1050.1	938.9	1828.8	222.5	97.9	222.5
87.5°	0.0	4.4	164.6	614.0	551.7	244.7	320.4	445.0	22.2	31.1	40.0
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°	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6
2.5°	5895.7	5846.7	5682.1	5499.7	5335.0	5206.0	5041.4	4965.7	4845.6	4778.8	4774.4
5°	5811.2	5677.7	5392.9	5085.9	4743.3	4458.5	4142.6	3964.6	3759.9	3697.6	3684.3
7.5°	5668.8	5477.4	5059.2	4627.6	4102.5	3599.7	3212.6	2798.8	2545.2	2438.4	2398.3
10°	5579.8	5348.4	4778.8	4133.7	3399.5	2692.0	2149.1	1708.6	1477.3	1366.0	1339.3
12.5°	5579.8	5330.6	4551.9	3662.0	2687.5	1842.1	1330.4	1076.8	1001.2	974.5	974.5
15°	5566.4	5295.0	4333.9	3177.0	1989.0	1237.0	992.3	938.9	930.0	925.5	921.1
17.5°	5633.2	5232.7	4111.4	2656.4	1406.1	974.5	912.2	903.3	894.4	894.4	885.5
20°	5682.1	5197.1	3844.4	2104.7	1050.1	903.3	876.6	863.2	858.8	854.3	863.2
22.5°	5642.1	5143.7	3515.2	1575.2	916.6	858.8	841.0	827.6	818.7	818.7	823.2
25°	5717.7	5094.8	3185.9	1188.0	858.8	818.7	800.9	792.0	787.6	783.1	774.2
27.5°	5820.1	5117.0	2794.3	956.7	809.8	778.7	760.9	752.0	747.5	738.6	747.5
30°	5944.6	5112.6	2362.7	836.5	765.3	734.2	716.4	711.9	703.0	698.6	703.0
32.5°	6158.2	5228.3	1917.8	774.2	716.4	689.7	671.9	667.4	663.0	658.5	654.1
35°	6616.5	5370.6	1499.5	725.3	671.9	640.7	627.4	618.5	614.0	609.6	605.1
37.5°	7181.6	5686.6	1143.5	680.8	627.4	596.2	582.9	578.4	560.6	556.2	551.7
40°	7889.1	6024.7	881.0	631.8	587.3	556.2	542.8	529.5	507.3	498.4	489.5
42.5°	8770.1	6354.0	725.3	587.3	542.8	520.6	498.4	476.1	458.3	440.5	431.6
45°	9651.1	6736.7	636.3	547.3	507.3	480.6	462.8	431.6	400.5	373.8	369.3
47.5°	10385.3	6874.6	582.9	502.8	471.7	449.4	422.7	382.7	338.2	311.5	307.0
50°	10932.6	6794.5	529.5	458.3	431.6	409.4	373.8	324.8	280.3	253.6	244.7
52.5°	11039.4	6443.0	480.6	422.7	391.6	364.9	324.8	271.4	222.5	195.8	191.3
55°	10963.8	5860.1	440.5	391.6	356.0	315.9	271.4	218.0	173.5	146.8	142.4
57.5°	10808.0	5170.4	396.0	351.5	311.5	271.4	222.5	178.0	129.0	102.3	102.3
60°	10278.5	4231.6	351.5	307.0	267.0	231.4	182.4	129.0	89.0	66.7	62.3
62.5°	9539.9	3252.6	307.0	262.5	231.4	191.3	142.4	93.4	53.4	35.6	35.6
65°	8191.7	2278.2	258.1	218.0	191.3	155.7	106.8	57.8	31.1	13.3	13.3
67.5°	6225.0	1410.5	213.6	182.4	164.6	124.6	75.6	35.6	13.3	4.4	0.0
70°	3573.0	734.2	169.1	146.8	129.0	93.4	53.4	17.8	8.9	0.0	0.0
71°	2496.2	542.8	151.3	129.0	115.7	84.5	44.5	13.3	4.4	0.0	0.0
72.5°	1250.3	360.4	129.0	106.8	93.4	66.7	35.6	13.3	4.4	0.0	0.0
75°	445.0	231.4	89.0	71.2	66.7	48.9	22.2	8.9	4.4	0.0	0.0
77.5°	307.0	186.9	62.3	44.5	44.5	31.1	13.3	4.4	4.4	0.0	0.0
80°	280.3	102.3	40.0	26.7	22.2	17.8	8.9	4.4	0.0	0.0	0.0
82.5°	280.3	75.6	22.2	17.8	13.3	8.9	4.4	0.0	0.0	0.0	0.0
85°	195.8	40.0	13.3	13.3	8.9	4.4	0.0	0.0	0.0	0.0	0.0
87.5°	31.1	13.3	8.9	4.4	4.4	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)