

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: P483727

Luminaire Tested: **IFLD-L-SA8D-760-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483727
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-760-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

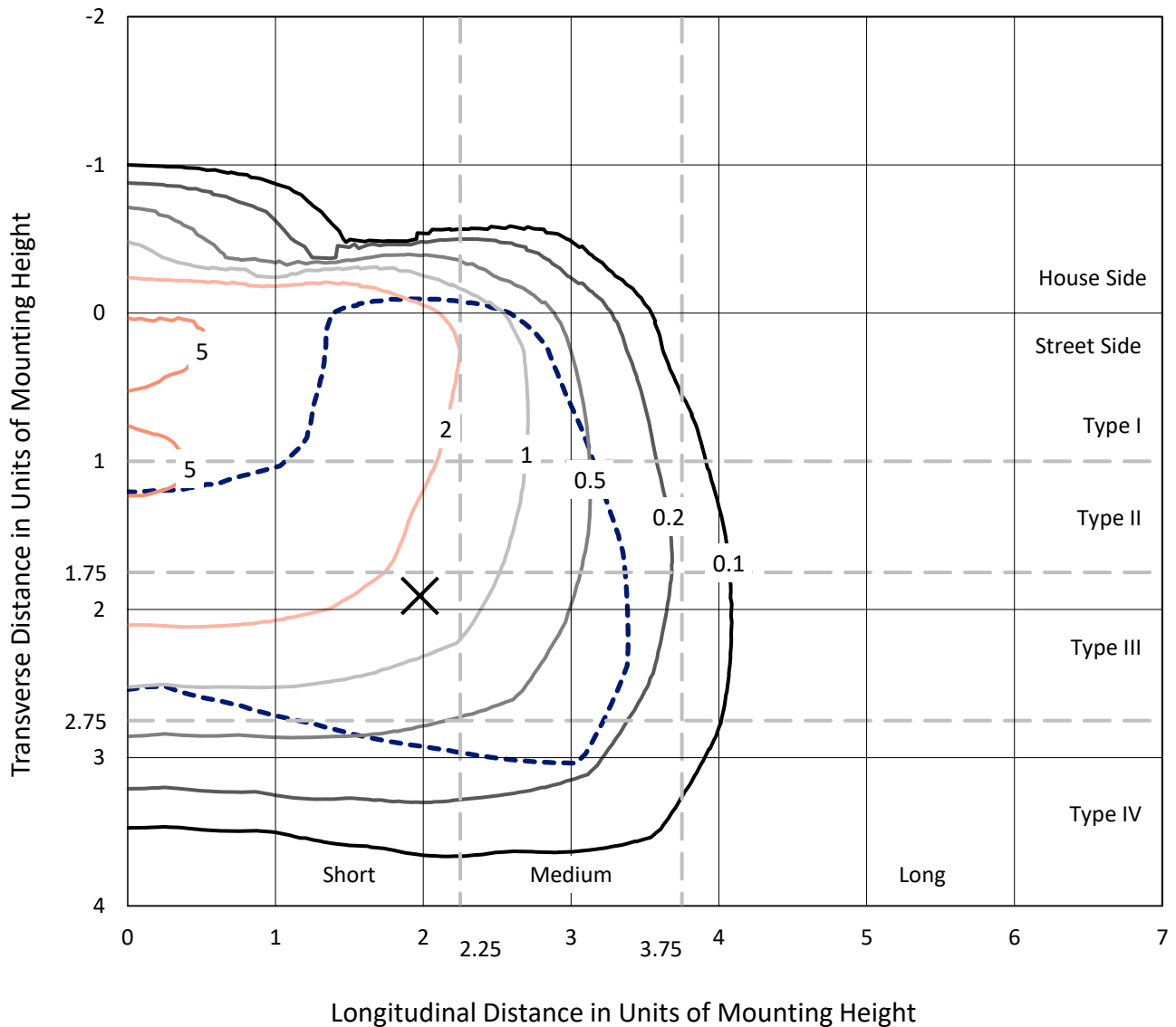
Lumens per Lamp: N/A
Luminaire Lumens: 42074.6 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

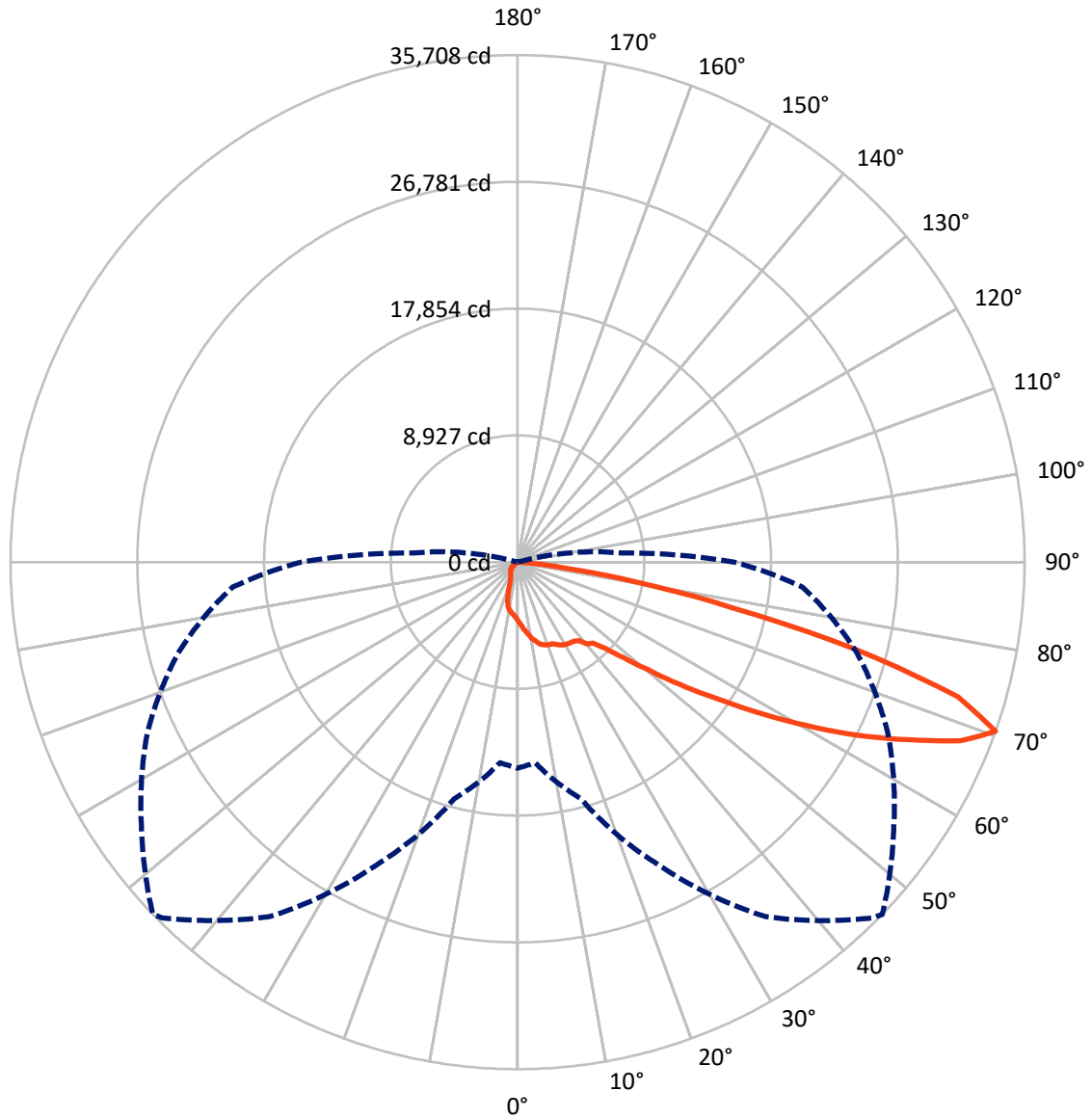
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4186.5	0.0	4186.5
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	37888.0	0.0	37888.0
	% Fixture	90.0	0.0	90.0
Total	Lumens	42074.6	0.0	42074.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.8	1.0
10°-20°	1243.7	3.0
20°-30°	1992.2	4.7
30°-40°	2843.6	6.8
40°-50°	4910.2	11.7
50°-60°	9401.0	22.3
60°-70°	13921.3	33.1
70°-80°	6895.1	16.4
80°-90°	455.6	1.1
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°	42074.6	100.0
0°-180°	42074.6	100.0

Coefficient of Utilization



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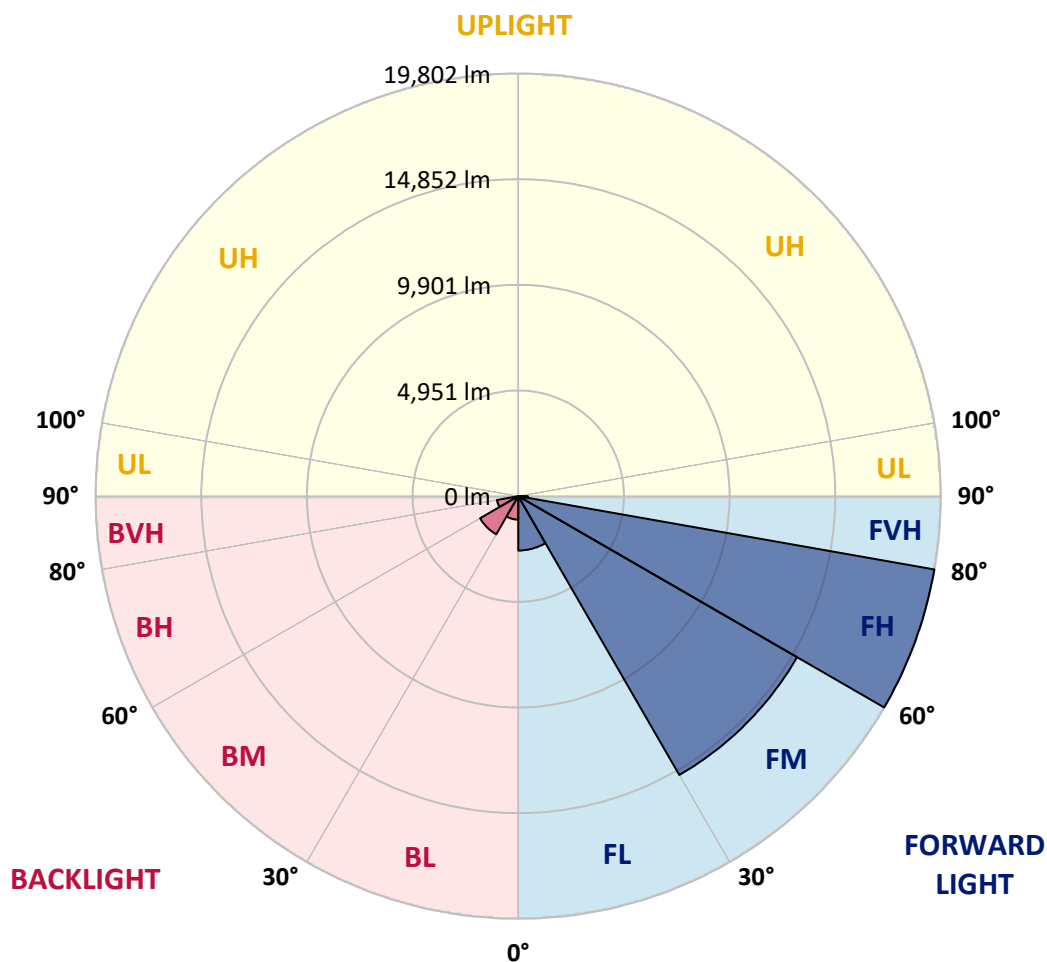
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2547.9	6.1			
FM (30°-60°)	15087.8	35.9			
FH (60°-80°)	19802.4	47.1			G5
FVH (80°-90°)	449.8	1.1			G3/500
BL (0°-30°)	1099.9	2.6	B3/2500		
BM (30°-60°)	2066.9	4.9	B2/2500		
BH (60°-80°)	1014.0	2.4	B3/2500		G3/2500
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4130.4	4130.4	4130.4	4130.4	4130.4	4130.4	4130.4	4130.4	4130.4	4130.4	4130.4
2.5°	4608.9	4578.6	4530.1	4512.0	4463.5	4439.3	4402.9	4384.8	4318.2	4251.5	4209.1
5°	5172.1	5099.4	5123.6	5051.0	4893.5	4766.3	4760.3	4621.0	4469.6	4348.4	4184.9
7.5°	5741.4	5680.8	5590.0	5487.0	5311.4	5123.6	5069.1	4935.9	4723.9	4512.0	4293.9
10°	6171.4	6129.0	6050.3	5904.9	5662.7	5450.7	5456.7	5232.7	5008.6	4766.3	4469.6
12.5°	6437.9	6456.0	6341.0	6195.6	5983.6	5717.2	5711.1	5559.7	5305.3	5051.0	4699.7
15°	6704.3	6771.0	6595.3	6425.8	6153.2	5959.4	5995.8	5814.1	5565.8	5275.1	4887.4
17.5°	6746.7	6764.9	6728.6	6480.3	6280.4	6116.9	6122.9	6001.8	5814.1	5499.1	5166.0
20°	6674.1	6662.0	6619.6	6437.9	6304.6	6207.7	6213.8	6183.5	6080.5	5826.2	5372.0
22.5°	6462.1	6462.1	6407.6	6286.5	6225.9	6316.7	6244.1	6359.1	6250.1	6098.7	5723.2
25°	6292.5	6359.1	6328.9	6250.1	6274.3	6395.5	6431.8	6540.8	6522.7	6334.9	5965.5
27.5°	6474.2	6395.5	6413.6	6322.8	6413.6	6595.3	6613.5	6692.2	6686.2	6534.8	6183.5
30°	6595.3	6668.0	6528.7	6328.9	6425.8	6734.6	6722.5	6825.5	6873.9	6692.2	6389.4
32.5°	6982.9	6922.4	6807.3	6540.8	6552.9	6728.6	6783.1	6916.3	6946.6	6837.6	6589.3
35°	7776.3	7685.5	7182.8	6783.1	6722.5	6807.3	6843.6	7104.1	7158.6	7037.4	6801.2
37.5°	8999.7	8793.8	8188.1	7303.9	7031.4	7013.2	7013.2	7358.4	7564.3	7285.8	7116.2
40°	10750.0	10459.3	9805.2	8266.9	7437.2	7509.8	7582.5	7770.3	7746.0	7564.3	7528.0
42.5°	12978.7	12754.6	12046.0	9883.9	8212.4	7849.0	7788.4	8042.8	8424.3	8351.7	8327.4
45°	14838.0	14850.1	14395.9	12100.5	9550.8	8630.3	8672.6	8866.5	9508.4	9453.9	9447.9
47.5°	16194.6	16025.0	15958.4	14238.4	11501.0	10114.1	10053.5	10186.7	11022.5	11367.7	11525.2
50°	17430.1	17315.0	17157.6	16315.7	13844.7	11973.3	11912.8	11924.9	13202.8	13687.3	14074.9
52.5°	18962.3	19107.7	18586.8	18072.1	16879.0	14389.8	14323.2	14087.0	15673.8	16339.9	16800.2
55°	20851.9	20579.4	19991.9	20258.4	19779.9	17000.1	16879.0	16600.4	18489.9	18768.5	19253.0
57.5°	21269.8	21063.9	21669.5	22614.3	23074.6	20064.6	20016.1	19513.5	20858.0	20603.6	21972.3
60°	22311.5	22366.0	23207.8	25085.3	25884.7	23601.5	23365.3	22481.1	23153.3	23201.8	24661.3
62.5°	23383.4	23256.3	25139.8	26944.6	28174.0	26950.6	26871.9	25115.6	25878.7	25260.9	27192.9
65°	22596.1	22789.9	25485.0	28507.1	31141.6	30227.1	30160.5	27653.2	28071.0	27301.9	28222.4
67.5°	19798.1	19404.4	23177.5	27792.4	32667.8	33661.0	33588.3	30420.9	29306.5	27289.8	26084.6
70°	14510.9	14171.8	17248.4	23534.9	30481.5	35417.4	35708.1	32346.8	28803.9	24746.1	20125.1
72.5°	7110.1	7116.2	9665.9	15958.4	24116.3	32280.2	32425.5	29657.8	24746.1	18241.6	11398.0
75°	2101.5	2125.8	3579.3	7824.8	15589.0	24516.0	24679.5	22511.3	17151.5	9423.6	3888.2
77.5°	769.2	769.2	1187.0	2937.3	7776.3	15473.9	15461.8	13820.5	8684.8	3191.7	908.4
80°	399.7	417.9	617.7	1199.2	3367.3	8061.0	8363.8	6764.9	3300.7	1344.5	266.5
82.5°	163.5	181.7	339.2	617.7	1617.0	2828.3	3094.8	2652.7	1435.3	938.7	121.1
85°	48.5	54.5	163.5	345.2	635.9	708.6	787.3	890.3	902.4	726.8	54.5
87.5°	6.1	6.1	66.6	115.1	139.3	151.4	175.6	175.6	460.3	508.7	30.3
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°	4130.4	4130.4	4130.4	4130.4	4130.4	4130.4	4130.4	4130.4	4130.4	4130.4	4130.4
2.5°	4160.7	4130.4	4082.0	3972.9	3948.7	3870.0	3863.9	3791.3	3815.5	3767.0	3748.9
5°	4130.4	4063.8	3930.6	3845.8	3761.0	3706.5	3670.1	3639.8	3633.8	3609.6	3597.5
7.5°	4184.9	4094.1	3888.2	3754.9	3609.6	3561.1	3482.4	3476.3	3433.9	3391.5	3391.5
10°	4366.6	4203.1	3979.0	3754.9	3567.2	3409.7	3228.0	3094.8	3046.3	2937.3	2949.4
12.5°	4512.0	4366.6	4039.6	3809.4	3524.8	3167.5	2767.7	2458.9	2313.5	2174.2	2228.7
15°	4717.9	4505.9	4154.6	3821.5	3361.3	2743.5	2089.4	1744.2	1611.0	1580.7	1574.6
17.5°	4942.0	4717.9	4300.0	3791.3	3028.2	2119.7	1538.3	1338.4	1362.7	1399.0	1393.0
20°	5190.3	4917.7	4409.0	3688.3	2501.3	1538.3	1259.7	1253.7	1290.0	1344.5	1356.6
22.5°	5450.7	5214.5	4542.2	3379.4	1865.3	1235.5	1211.3	1211.3	1235.5	1302.1	1290.0
25°	5741.4	5426.5	4608.9	2901.0	1338.4	1138.6	1150.7	1174.9	1187.0	1241.5	1247.6
27.5°	5965.5	5662.7	4627.0	2325.6	1090.1	1053.8	1084.1	1114.4	1132.5	1174.9	1193.1
30°	6171.4	5959.4	4530.1	1732.1	999.3	981.1	993.2	1035.6	1072.0	1108.3	1108.3
32.5°	6431.8	6129.0	4306.0	1229.4	944.8	914.5	908.4	926.6	969.0	1011.4	1011.4
35°	6698.3	6413.6	3948.7	987.2	896.3	853.9	829.7	811.5	829.7	860.0	884.2
37.5°	7085.9	6843.6	3500.6	908.4	860.0	799.4	751.0	708.6	678.3	672.3	690.4
40°	7637.0	7328.1	2925.2	853.9	817.6	744.9	672.3	599.6	533.0	490.6	496.6
42.5°	8472.8	8042.8	2301.4	823.7	787.3	684.4	581.4	478.4	393.7	351.3	351.3
45°	9665.9	8987.6	1689.7	793.4	751.0	611.7	478.4	357.3	272.5	248.3	254.4
47.5°	11464.6	10126.2	1211.3	744.9	702.5	533.0	375.5	254.4	199.9	187.7	193.8
50°	13814.5	11476.7	944.8	690.4	642.0	448.2	278.6	187.7	157.5	151.4	157.5
52.5°	16279.4	12839.4	829.7	642.0	551.1	357.3	205.9	151.4	133.2	127.2	133.2
55°	18387.0	13717.6	720.7	569.3	442.1	266.5	163.5	133.2	115.1	96.9	96.9
57.5°	20518.8	14159.7	569.3	472.4	327.0	199.9	139.3	115.1	96.9	78.7	72.7
60°	22250.9	14474.6	405.8	351.3	230.1	157.5	121.1	103.0	78.7	60.6	54.5
62.5°	23389.5	13572.2	296.8	266.5	169.6	133.2	103.0	84.8	60.6	42.4	42.4
65°	22826.3	12324.6	230.1	187.7	127.2	103.0	84.8	60.6	42.4	24.2	18.2
67.5°	20482.5	10041.4	187.7	139.3	96.9	78.7	66.6	48.5	24.2	6.1	6.1
70°	15280.1	7358.4	151.4	103.0	78.7	60.6	48.5	30.3	12.1	6.1	0.0
72.5°	8357.7	4027.5	121.1	84.8	60.6	48.5	36.3	24.2	12.1	0.0	0.0
75°	2761.7	1072.0	90.8	60.6	36.3	30.3	24.2	18.2	6.1	0.0	0.0
77.5°	666.2	278.6	72.7	54.5	30.3	18.2	12.1	6.1	6.1	0.0	0.0
80°	205.9	115.1	54.5	36.3	24.2	18.2	6.1	0.0	0.0	0.0	0.0
82.5°	84.8	54.5	24.2	24.2	18.2	6.1	0.0	0.0	0.0	0.0	0.0
85°	42.4	30.3	18.2	12.1	12.1	6.1	0.0	0.0	0.0	0.0	0.0
87.5°	30.3	12.1	6.1	6.1	0.0	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)