

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: P483258

Luminaire Tested: **IFLD-L-SA8C-740-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483258
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-740-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

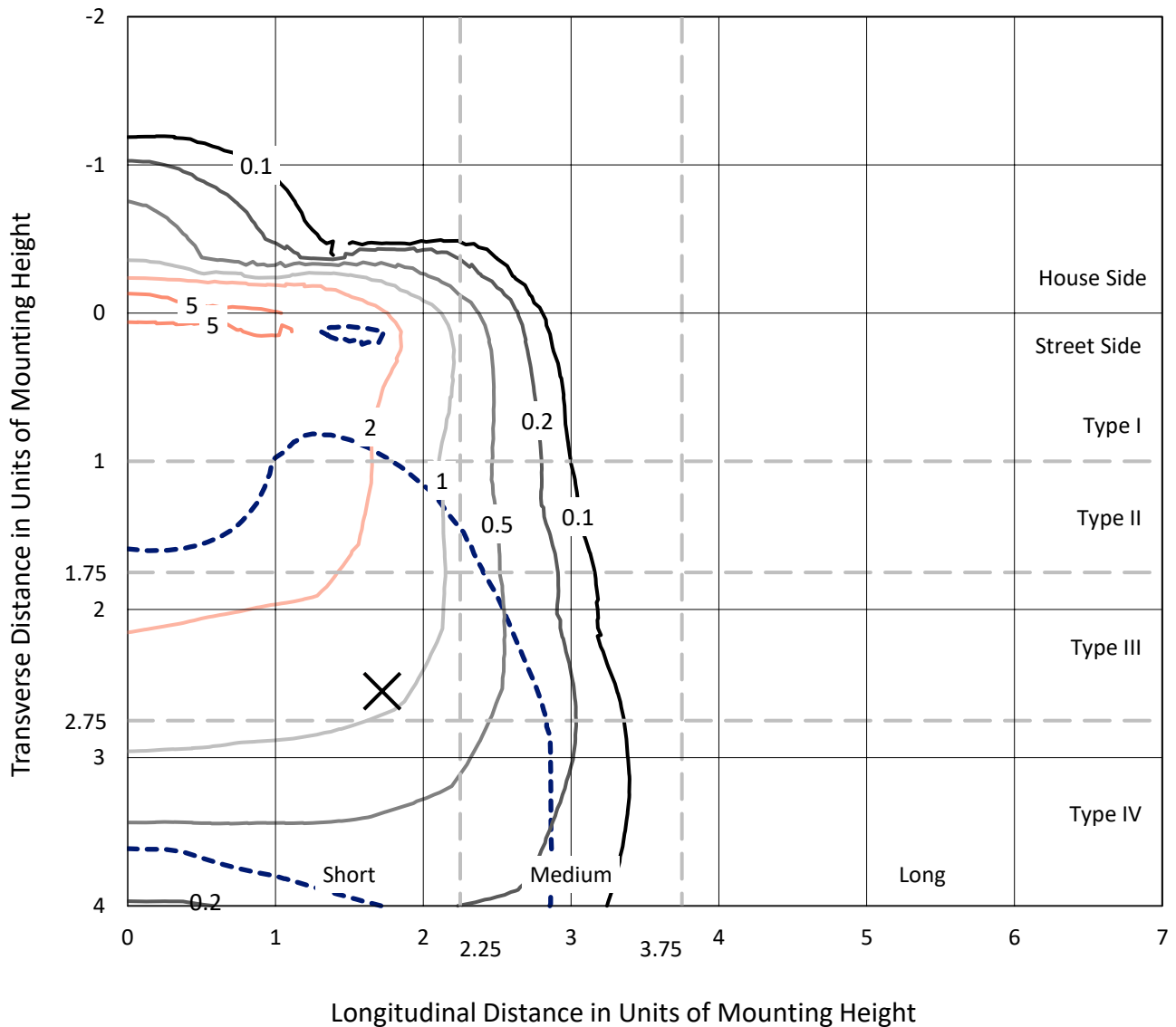
Lumens per Lamp: N/A
Luminaire Lumens: 36634.5 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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

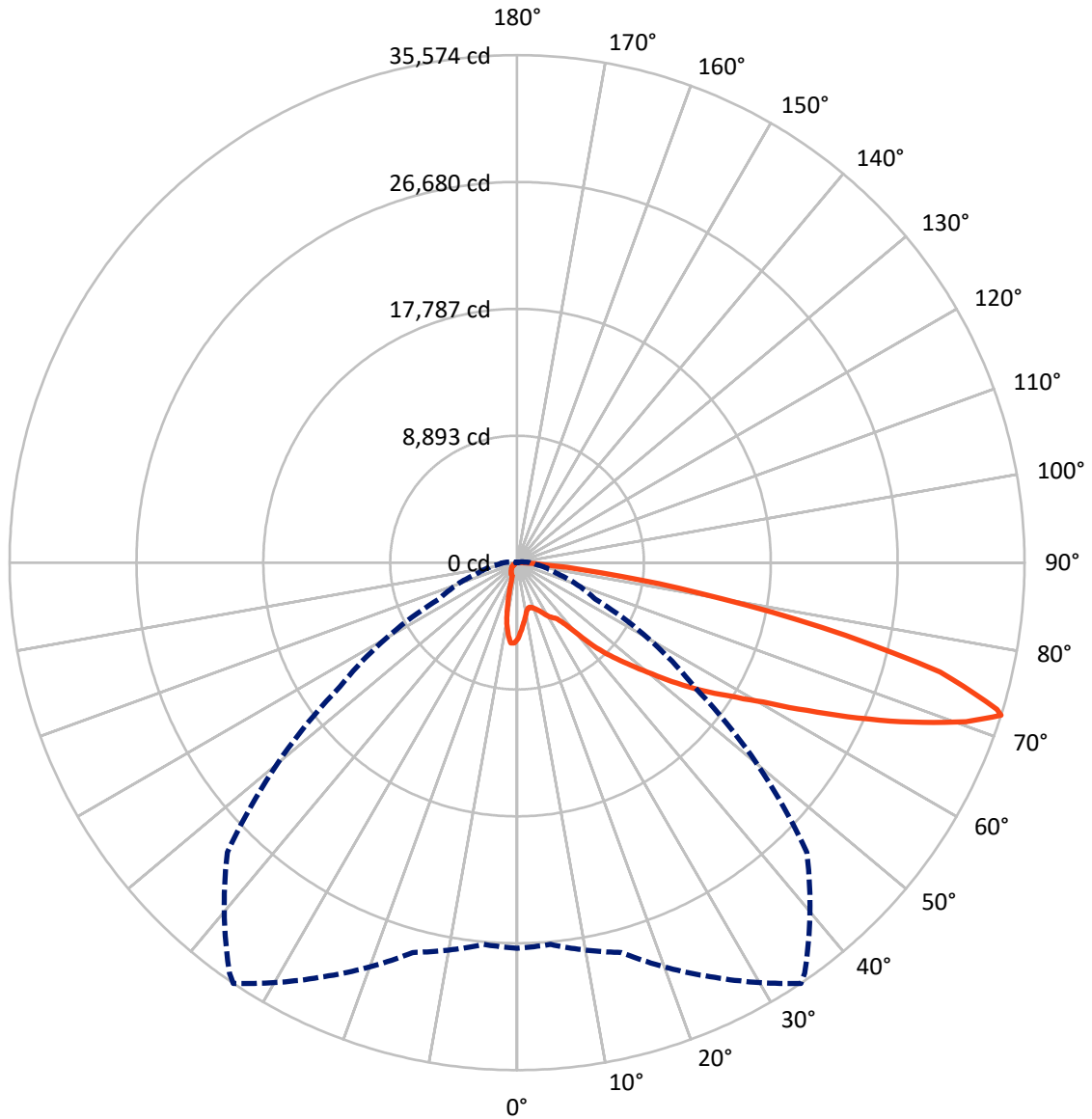
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3750.5	0.0	3750.5
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	32884.0	0.0	32884.0
	% Fixture	89.8	0.0	89.8
Total	Lumens	36634.5	0.0	36634.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.3	1.3
10°-20°	1053.4	2.9
20°-30°	1589.9	4.3
30°-40°	2580.1	7.0
40°-50°	4851.8	13.2
50°-60°	7932.8	21.7
60°-70°	10545.5	28.8
70°-80°	7062.3	19.3
80°-90°	553.4	1.5
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°	36634.5	100.0
0°-180°	36634.5	100.0

Coefficient of Utilization

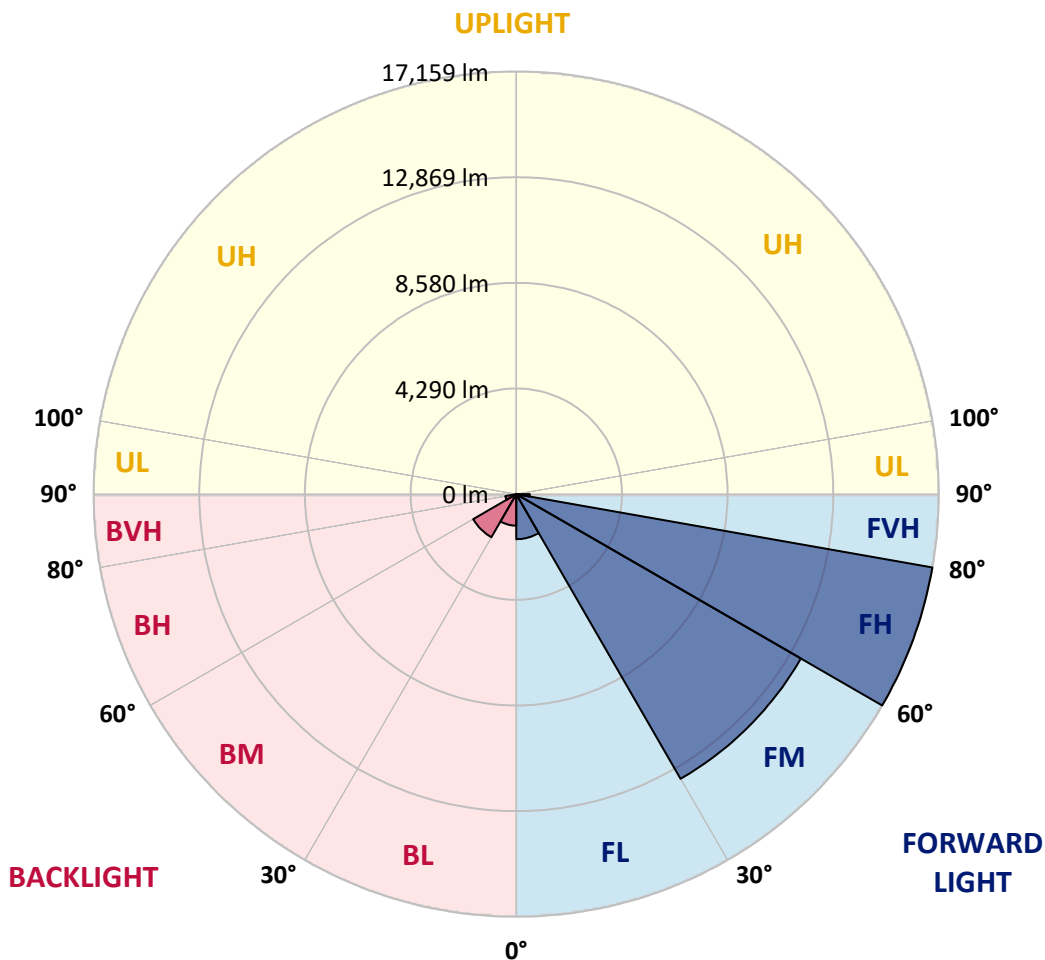


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1828.9	5.0			
FM (30°-60°)	13345.9	36.4			
FH (60°-80°)	17159.3	46.8			G5
FVH (80°-90°)	549.9	1.5			G4/750
BL (0°-30°)	1279.7	3.5	B3/2500		
BM (30°-60°)	2018.9	5.5	B2/2500		
BH (60°-80°)	448.5	1.2	B1/500		G1/500
BVH (80°-90°)	3.5	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°	34°	35°	45°	55°	65°	75°	85°
0°	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7
2.5°	4740.0	4729.4	4761.2	4814.2	4867.1	4845.9	4946.6	5052.5	5126.6	5227.3	5349.1
5°	4141.6	4168.0	4199.8	4305.7	4374.6	4390.5	4575.8	4713.5	4941.3	5174.3	5391.4
7.5°	3596.1	3627.8	3691.4	3807.9	3950.9	3988.0	4173.3	4448.7	4745.3	5052.5	5407.3
10°	3198.8	3230.6	3299.5	3373.6	3564.3	3564.3	3818.5	4199.8	4586.4	4946.6	5412.6
12.5°	3114.1	3130.0	3124.7	3183.0	3304.8	3331.2	3580.2	3998.6	4448.7	4909.5	5497.4
15°	3214.7	3225.3	3172.4	3140.6	3246.5	3273.0	3506.0	3876.7	4358.7	4930.7	5635.1
17.5°	3416.0	3378.9	3273.0	3225.3	3315.4	3331.2	3548.4	3871.5	4348.1	4988.9	5793.9
20°	3532.5	3574.9	3389.5	3299.5	3426.6	3447.8	3680.8	3956.2	4401.1	5089.6	6016.4
22.5°	3739.0	3760.2	3511.3	3453.1	3574.9	3574.9	3839.7	4125.7	4528.2	5253.7	6281.2
25°	4030.3	4003.9	3712.6	3654.3	3770.8	3818.5	4083.3	4395.8	4724.1	5407.3	6524.8
27.5°	4258.1	4274.0	4035.6	3882.0	4078.0	4109.8	4395.8	4687.1	4872.4	5534.4	6821.4
30°	4597.0	4565.2	4311.0	4136.3	4379.9	4385.2	4660.6	4962.4	5158.4	5762.2	7266.3
32.5°	4999.5	4936.0	4644.7	4395.8	4591.7	4639.4	4920.1	5359.7	5603.3	6191.1	7954.7
35°	5852.2	5698.6	5222.0	4835.3	4851.2	4872.4	5306.7	5936.9	6217.6	6736.6	8876.3
37.5°	7096.8	7033.2	6493.0	5756.9	5476.2	5412.6	5899.9	6699.6	7049.1	7456.9	10073.2
40°	8330.8	8240.7	7737.6	7181.5	6673.1	6546.0	6789.6	7711.1	8028.9	8457.9	11301.9
42.5°	9702.5	9543.6	8950.4	8500.2	8182.5	8044.8	7949.4	8982.2	9342.3	9633.6	12504.1
45°	11090.0	10830.5	9972.6	9628.3	9458.8	9384.7	9374.1	10581.6	10798.8	10857.0	13838.7
47.5°	12308.1	12027.4	11248.9	10862.3	10735.2	10714.0	11307.2	12424.7	12255.2	12101.6	15326.9
50°	13245.6	13065.5	12504.1	12366.4	12271.1	12234.0	13621.6	14320.7	13536.8	13266.7	16635.1
52.5°	14696.7	14294.2	13658.6	13706.3	14040.0	14045.3	15967.7	16121.3	14601.4	14066.4	17869.0
55°	15856.5	15591.7	15072.7	15003.9	15883.0	15978.3	18070.3	17487.7	15194.5	14829.1	18324.5
57.5°	17222.9	17101.1	16725.1	16735.7	17657.2	17858.5	19939.8	18642.3	15687.1	15321.6	18393.4
60°	19198.4	18848.8	18652.9	18742.9	19828.6	20024.6	21751.1	19473.8	15925.4	15644.7	18223.9
62.5°	21380.4	20972.6	20760.7	21221.5	22805.0	22836.8	23128.1	20209.9	15777.1	15729.4	17132.9
65°	24007.2	23604.7	23435.3	24362.1	26242.2	26125.7	25061.2	20522.4	15305.7	14876.8	14267.7
67.5°	26623.5	26379.9	26030.3	27508.0	29848.8	29848.8	27068.4	20405.9	14071.7	11942.7	9331.7
70°	27862.8	28032.3	28588.4	30908.1	33391.9	33137.7	29049.1	19066.0	10475.7	6413.6	3670.2
72°	27036.6	26861.8	28297.1	32020.2	35573.9	35155.5	28715.5	15157.4	6053.4	2812.2	1276.4
72.5°	25617.2	25781.4	27756.9	31866.6	35166.1	35510.4	27899.9	13981.7	4978.3	2240.3	963.9
75°	15708.2	15988.9	20718.4	27057.8	30643.2	30256.6	21581.6	6662.5	1911.9	953.3	344.2
77.5°	5735.7	5968.7	10052.0	17027.0	21793.5	21549.8	12488.2	2367.4	1038.0	709.7	174.8
80°	1493.5	1615.3	3416.0	7854.1	12816.6	12832.5	5227.3	948.0	704.4	582.6	105.9
82.5°	296.6	328.4	1048.6	3055.9	5989.9	5910.4	1652.4	508.4	529.6	476.6	74.1
85°	37.1	47.7	222.4	1038.0	1938.4	1737.1	407.8	254.2	391.9	370.7	47.7
87.5°	5.3	5.3	53.0	238.3	407.8	397.2	84.7	79.4	174.8	227.7	26.5
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°	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7
2.5°	5417.9	5439.1	5513.2	5576.8	5650.9	5672.1	5640.3	5693.3	5619.2	5661.5	5672.1
5°	5428.5	5550.3	5688.0	5778.0	5756.9	5703.9	5661.5	5518.5	5417.9	5380.8	5460.3
7.5°	5502.6	5640.3	5788.6	5788.6	5672.1	5396.7	5131.9	4877.7	4665.9	4559.9	4650.0
10°	5598.0	5741.0	5894.6	5693.3	5259.0	4755.9	4379.9	3903.2	3580.2	3410.7	3426.6
12.5°	5725.1	5926.3	5979.3	5513.2	4793.0	4046.2	3363.0	2701.0	2393.8	2150.2	2155.5
15°	5889.3	6085.2	5926.3	5121.3	4199.8	3098.2	2277.3	1647.1	1403.5	1276.4	1276.4
17.5°	6106.4	6254.7	5910.4	4761.2	3400.1	2118.4	1398.2	1112.2	1059.2	1038.0	1038.0
20°	6360.6	6471.8	5756.9	4199.8	2526.2	1361.1	1027.4	995.7	1001.0	990.4	990.4
22.5°	6646.6	6683.7	5582.1	3548.4	1710.6	1006.3	958.6	963.9	969.2	958.6	963.9
25°	6948.5	6847.9	5327.9	2785.7	1138.7	916.2	926.8	937.4	942.7	948.0	948.0
27.5°	7287.4	7086.2	4973.0	2039.0	889.7	863.3	895.0	926.8	932.1	932.1	926.8
30°	7785.3	7451.6	4628.8	1382.3	783.8	805.0	858.0	895.0	921.5	921.5	916.2
32.5°	8415.5	7832.9	4146.8	942.7	725.6	736.2	778.5	852.7	910.9	916.2	900.3
35°	9289.4	8293.7	3643.7	752.0	683.2	688.5	715.0	773.2	873.9	905.6	900.3
37.5°	10210.9	8818.0	3018.8	677.9	651.4	646.1	662.0	709.7	799.7	879.2	884.4
40°	11190.7	9368.8	2362.1	640.8	624.9	614.3	619.6	640.8	709.7	810.3	831.5
42.5°	12112.2	9866.6	1774.2	603.8	598.5	587.9	587.9	593.2	630.2	699.1	709.7
45°	13107.9	10274.4	1350.5	577.3	561.4	566.7	545.5	534.9	561.4	566.7	561.4
47.5°	14040.0	10682.2	1080.4	545.5	529.6	529.6	503.1	481.9	481.9	434.3	429.0
50°	14913.8	10904.7	863.3	503.1	497.8	492.5	455.5	418.4	386.6	328.4	317.8
52.5°	15639.4	10894.1	667.3	450.2	466.1	450.2	391.9	339.0	291.3	238.3	227.7
55°	15856.5	10385.7	503.1	370.7	397.2	376.0	312.5	264.8	211.8	169.5	164.2
57.5°	15671.2	9612.4	381.3	286.0	307.2	286.0	238.3	196.0	148.3	116.5	105.9
60°	15051.5	8706.8	296.6	222.4	233.0	217.1	180.1	148.3	105.9	74.1	63.6
62.5°	13875.8	7573.4	227.7	174.8	169.5	169.5	137.7	111.2	74.1	42.4	37.1
65°	11386.6	5905.2	174.8	121.8	121.8	121.8	105.9	79.4	47.7	21.2	10.6
67.5°	7149.7	3437.2	143.0	95.3	90.0	90.0	74.1	53.0	26.5	5.3	0.0
70°	2690.4	1260.5	111.2	74.1	68.8	68.8	53.0	31.8	15.9	0.0	0.0
72°	926.8	481.9	90.0	53.0	53.0	47.7	37.1	26.5	10.6	0.0	0.0
72.5°	762.6	386.6	84.7	53.0	47.7	47.7	37.1	26.5	10.6	0.0	0.0
75°	275.4	158.9	58.3	37.1	31.8	31.8	26.5	15.9	5.3	0.0	0.0
77.5°	137.7	100.6	47.7	31.8	26.5	15.9	15.9	10.6	5.3	0.0	0.0
80°	84.7	63.6	26.5	21.2	15.9	10.6	5.3	5.3	0.0	0.0	0.0
82.5°	58.3	37.1	15.9	15.9	10.6	5.3	0.0	0.0	0.0	0.0	0.0
85°	37.1	15.9	10.6	10.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	10.6	5.3	0.0	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)