

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: P483298

Luminaire Tested: **IFLD-L-SA8D-750-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483298
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-750-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

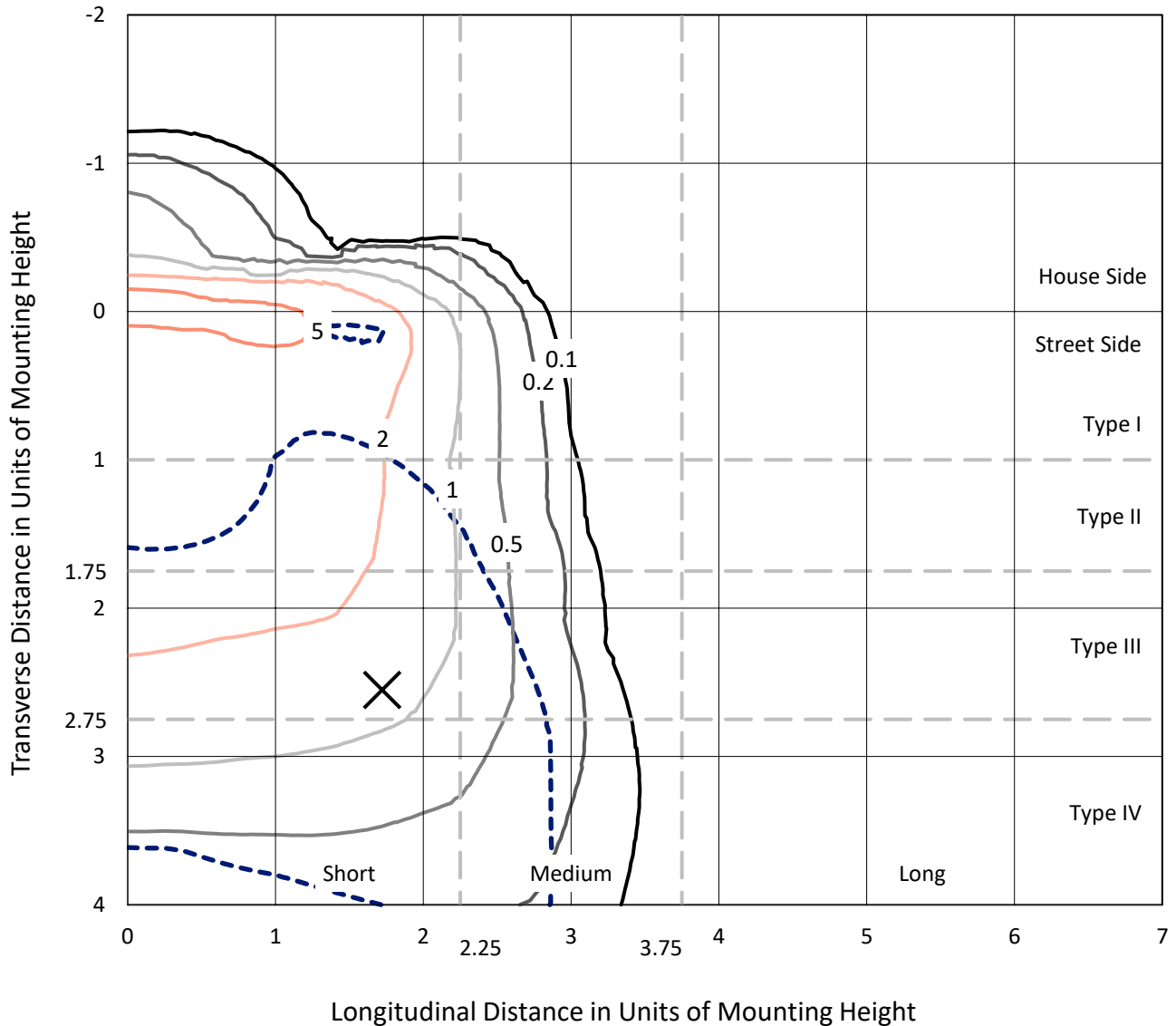
Lumens per Lamp: N/A
Luminaire Lumens: 41233.6 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

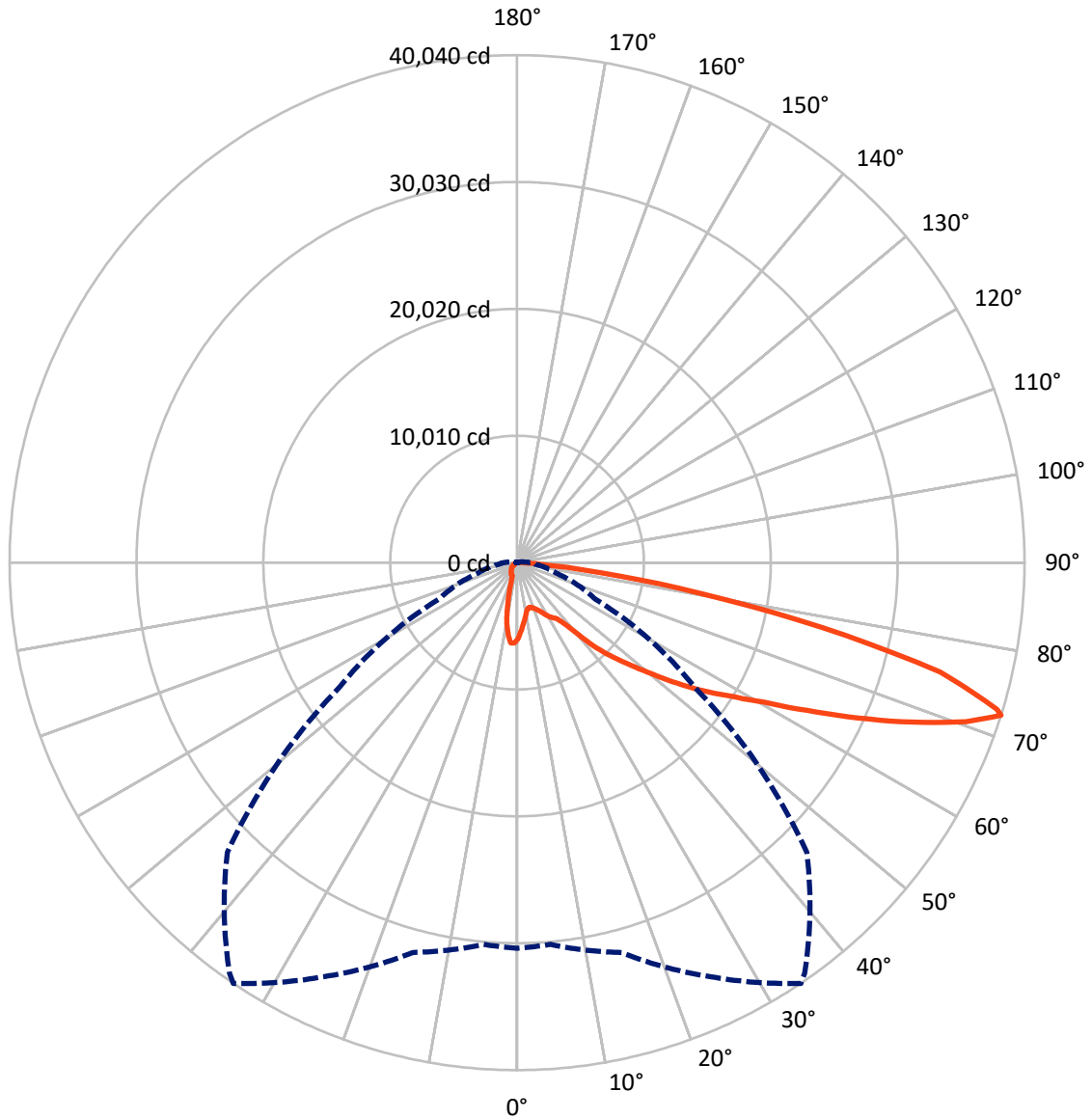
× Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4221.3	0.0	4221.3
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	37012.2	0.0	37012.2
	% Fixture	89.8	0.0	89.8
Total	Lumens	41233.6	0.0	41233.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.7	1.3
10°-20°	1185.6	2.9
20°-30°	1789.5	4.3
30°-40°	2904.1	7.0
40°-50°	5460.9	13.2
50°-60°	8928.7	21.7
60°-70°	11869.4	28.8
70°-80°	7948.8	19.3
80°-90°	622.9	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°	41233.6	100.0
0°-180°	41233.6	100.0

Coefficient of Utilization



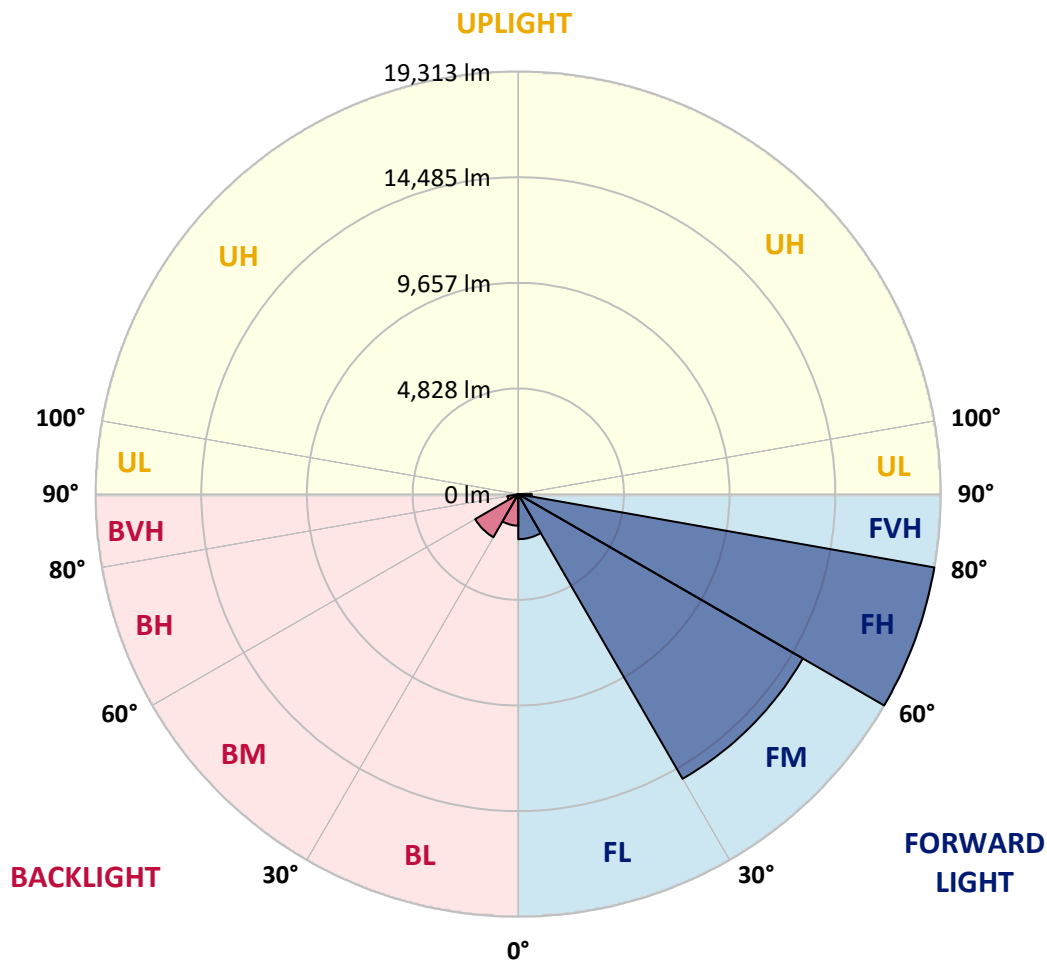
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2058.5	5.0			
FM (30°-60°)	15021.3	36.4			
FH (60°-80°)	19313.5	46.8			G5
FVH (80°-90°)	619.0	1.5			G4/750
BL (0°-30°)	1440.3	3.5	B3/2500		
BM (30°-60°)	2272.3	5.5	B2/2500		
BH (60°-80°)	504.8	1.2	B2/1000		G2/1000
BVH (80°-90°)	3.9	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°	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5
2.5°	5335.1	5323.1	5358.9	5418.5	5478.1	5454.3	5567.5	5686.8	5770.2	5883.5	6020.6
5°	4661.5	4691.3	4727.0	4846.3	4923.8	4941.6	5150.3	5305.3	5561.6	5823.9	6068.3
7.5°	4047.5	4083.3	4154.8	4285.9	4446.9	4488.6	4697.2	5007.2	5341.0	5686.8	6086.1
10°	3600.4	3636.2	3713.7	3797.1	4011.7	4011.7	4297.9	4727.0	5162.2	5567.5	6092.1
12.5°	3505.0	3522.9	3517.0	3582.5	3719.6	3749.4	4029.6	4500.5	5007.2	5525.8	6187.5
15°	3618.3	3630.2	3570.6	3534.9	3654.1	3683.9	3946.2	4363.4	4905.9	5549.7	6342.5
17.5°	3844.8	3803.1	3683.9	3630.2	3731.6	3749.4	3993.8	4357.5	4894.0	5615.2	6521.3
20°	3976.0	4023.7	3815.0	3713.7	3856.7	3880.6	4142.9	4452.8	4953.6	5728.5	6771.7
22.5°	4208.4	4232.3	3952.1	3886.6	4023.7	4023.7	4321.7	4643.6	5096.6	5913.3	7069.7
25°	4536.3	4506.5	4178.6	4113.1	4244.2	4297.9	4595.9	4947.6	5317.2	6086.1	7343.9
27.5°	4792.6	4810.5	4542.3	4369.4	4589.9	4625.7	4947.6	5275.5	5484.1	6229.2	7677.7
30°	5174.1	5138.4	4852.2	4655.5	4929.7	4935.7	5245.7	5585.4	5806.0	6485.5	8178.4
32.5°	5627.2	5555.6	5227.8	4947.6	5168.2	5221.8	5537.7	6032.5	6306.7	6968.4	8953.4
35°	6586.9	6414.0	5877.5	5442.4	5460.2	5484.1	5972.9	6682.2	6998.2	7582.4	9990.6
37.5°	7987.7	7916.2	7308.1	6479.6	6163.6	6092.1	6640.5	7540.6	7934.0	8393.0	11337.8
40°	9376.6	9275.3	8709.0	8083.1	7510.8	7367.8	7642.0	8679.2	9036.8	9519.7	12720.7
42.5°	10920.5	10741.7	10074.0	9567.4	9209.7	9054.7	8947.4	10109.8	10515.1	10843.0	14073.8
45°	12482.3	12190.2	11224.5	10837.0	10646.3	10562.8	10550.9	11910.0	12154.4	12220.0	15576.0
47.5°	13853.3	13537.4	12661.1	12225.9	12082.9	12059.0	12726.7	13984.4	13793.7	13620.8	17251.0
50°	14908.4	14705.7	14073.8	13918.9	13811.6	13769.8	15331.6	16118.5	15236.2	14932.2	18723.4
52.5°	16541.7	16088.7	15373.3	15427.0	15802.5	15808.5	17972.3	18145.2	16434.4	15832.3	20112.3
55°	17847.1	17549.1	16964.9	16887.4	17876.9	17984.2	20338.8	19683.1	17102.0	16690.7	20625.0
57.5°	19385.1	19248.0	18824.7	18836.7	19873.9	20100.4	22443.0	20982.6	17656.4	17245.1	20702.4
60°	21608.5	21215.1	20994.5	21095.9	22317.9	22538.4	24481.7	21918.5	17924.6	17608.7	20511.7
62.5°	24064.4	23605.4	23367.0	23885.6	25667.9	25703.7	26031.5	22747.1	17757.7	17704.1	19283.7
65°	27021.1	26568.0	26377.3	27420.5	29536.6	29405.5	28207.3	23098.8	17227.2	16744.4	16058.8
67.5°	29965.8	29691.6	29298.2	30961.3	33596.0	33596.0	30466.5	22967.6	15838.3	13442.0	10503.2
70°	31360.7	31551.4	32177.3	34788.2	37583.9	37297.8	32695.9	21459.5	11790.8	7218.7	4131.0
72°	30430.7	30234.0	31849.5	36040.0	40039.8	39568.9	32320.4	17060.3	6813.4	3165.3	1436.6
72.5°	28833.2	29018.0	31241.4	35867.1	39580.8	39968.3	31402.4	15737.0	5603.3	2521.5	1084.9
75°	17680.2	17996.2	23319.3	30454.6	34490.2	34055.0	24290.9	7498.9	2151.9	1073.0	387.5
77.5°	6455.7	6718.0	11313.9	19164.5	24529.4	24255.2	14056.0	2664.6	1168.3	798.8	196.7
80°	1681.0	1818.1	3844.8	8840.1	14425.5	14443.4	5883.5	1067.0	792.8	655.7	119.2
82.5°	333.8	369.6	1180.3	3439.5	6741.9	6652.4	1859.8	572.3	596.1	536.5	83.5
85°	41.7	53.6	250.4	1168.3	2181.7	1955.2	459.0	286.1	441.1	417.3	53.6
87.5°	6.0	6.0	59.6	268.2	459.0	447.1	95.4	89.4	196.7	256.3	29.8
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°	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5
2.5°	6098.1	6121.9	6205.4	6276.9	6360.4	6384.2	6348.4	6408.0	6324.6	6372.3	6384.2
5°	6110.0	6247.1	6402.1	6503.4	6479.6	6420.0	6372.3	6211.3	6098.1	6056.3	6145.8
7.5°	6193.4	6348.4	6515.3	6515.3	6384.2	6074.2	5776.2	5490.1	5251.6	5132.4	5233.7
10°	6300.7	6461.7	6634.6	6408.0	5919.2	5352.9	4929.7	4393.2	4029.6	3838.9	3856.7
12.5°	6443.8	6670.3	6729.9	6205.4	5394.7	4554.2	3785.2	3040.1	2694.4	2420.2	2426.1
15°	6628.6	6849.2	6670.3	5764.3	4727.0	3487.2	2563.2	1853.9	1579.7	1436.6	1436.6
17.5°	6873.0	7039.9	6652.4	5358.9	3826.9	2384.4	1573.7	1251.8	1192.2	1168.3	1168.3
20°	7159.1	7284.3	6479.6	4727.0	2843.4	1532.0	1156.4	1120.7	1126.6	1114.7	1114.7
22.5°	7481.0	7522.7	6282.9	3993.8	1925.4	1132.6	1078.9	1084.9	1090.9	1078.9	1084.9
25°	7820.8	7707.5	5996.7	3135.5	1281.6	1031.2	1043.2	1055.1	1061.1	1067.0	1067.0
27.5°	8202.3	7975.8	5597.3	2295.0	1001.4	971.6	1007.4	1043.2	1049.1	1049.1	1043.2
30°	8762.6	8387.1	5209.9	1555.8	882.2	906.1	965.7	1007.4	1037.2	1037.2	1031.2
32.5°	9472.0	8816.3	4667.4	1061.1	816.7	828.6	876.3	959.7	1025.3	1031.2	1013.4
35°	10455.5	9334.9	4101.1	846.5	769.0	774.9	804.7	870.3	983.6	1019.3	1013.4
37.5°	11492.7	9925.0	3397.8	763.0	733.2	727.2	745.1	798.8	900.1	989.5	995.5
40°	12595.5	10545.0	2658.6	721.3	703.4	691.5	697.4	721.3	798.8	912.0	935.9
42.5°	13632.7	11105.3	1996.9	679.6	673.6	661.7	661.7	667.6	709.4	786.8	798.8
45°	14753.4	11564.3	1520.0	649.7	631.9	637.8	614.0	602.1	631.9	637.8	631.9
47.5°	15802.5	12023.3	1216.0	614.0	596.1	596.1	566.3	542.4	542.4	488.8	482.8
50°	16786.1	12273.6	971.6	566.3	560.3	554.4	512.6	470.9	435.2	369.6	357.7
52.5°	17602.7	12261.7	751.1	506.7	524.6	506.7	441.1	381.5	327.9	268.2	256.3
55°	17847.1	11689.5	566.3	417.3	447.1	423.2	351.7	298.0	238.4	190.8	184.8
57.5°	17638.5	10819.2	429.2	321.9	345.7	321.9	268.2	220.6	166.9	131.1	119.2
60°	16941.1	9799.8	333.8	250.4	262.3	244.4	202.7	166.9	119.2	83.5	71.5
62.5°	15617.7	8524.2	256.3	196.7	190.8	190.8	155.0	125.2	83.5	47.7	41.7
65°	12816.1	6646.5	196.7	137.1	137.1	137.1	119.2	89.4	53.6	23.8	11.9
67.5°	8047.3	3868.7	160.9	107.3	101.3	101.3	83.5	59.6	29.8	6.0	0.0
70°	3028.2	1418.7	125.2	83.5	77.5	77.5	59.6	35.8	17.9	0.0	0.0
72°	1043.2	542.4	101.3	59.6	59.6	53.6	41.7	29.8	11.9	0.0	0.0
72.5°	858.4	435.2	95.4	59.6	53.6	53.6	41.7	29.8	11.9	0.0	0.0
75°	310.0	178.8	65.6	41.7	35.8	35.8	29.8	17.9	6.0	0.0	0.0
77.5°	155.0	113.3	53.6	35.8	29.8	17.9	17.9	11.9	6.0	0.0	0.0
80°	95.4	71.5	29.8	23.8	17.9	11.9	6.0	6.0	0.0	0.0	0.0
82.5°	65.6	41.7	17.9	17.9	11.9	6.0	0.0	0.0	0.0	0.0	0.0
85°	41.7	17.9	11.9	11.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.9	11.9	6.0	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)