

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: P483220

Luminaire Tested: **IFLD-L-SA8D-735-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483220  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-735-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

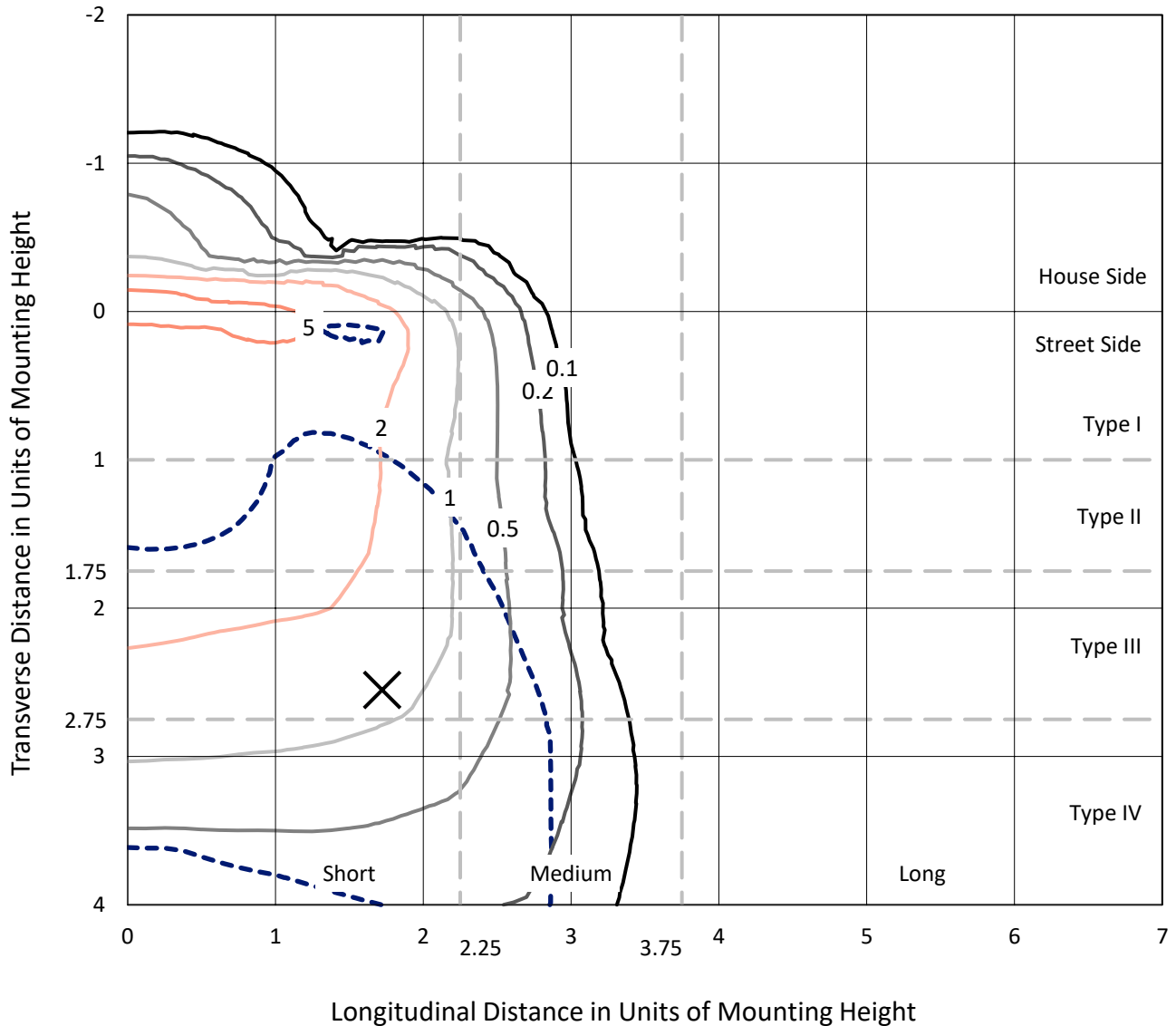
Lumens per Lamp: N/A  
Luminaire Lumens: 39758.2 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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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 CATALOG NUMBER: IFLD-L-SA8D-735-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

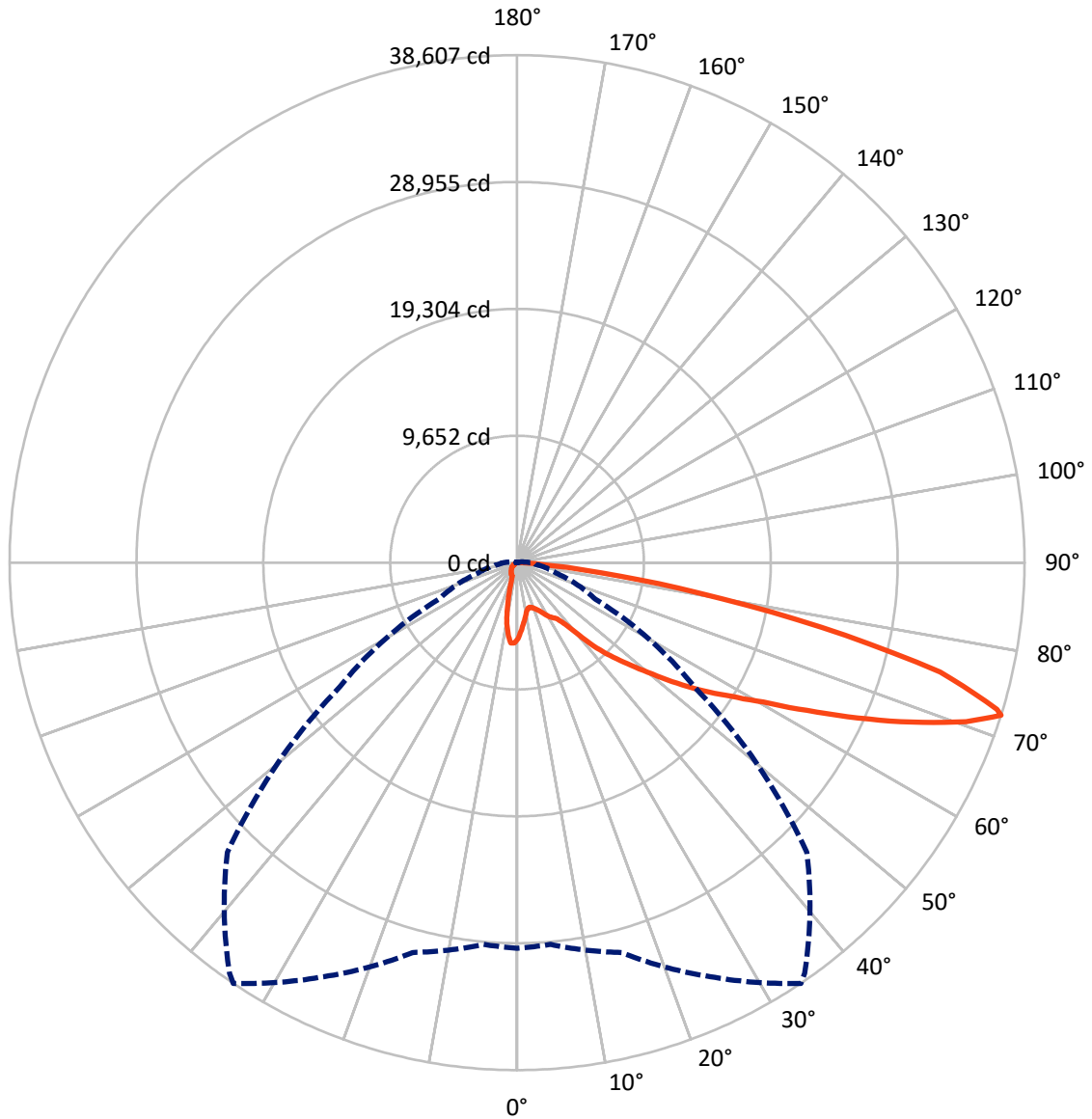
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P483220  
CATALOG NUMBER: IFLD-L-SA8D-735-U-T4FT-HSS

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: IFLD-L-SA8D-735-U-T4FT-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4070.3	0.0	4070.3
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	35687.9	0.0	35687.9
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	39758.2	0.0	39758.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	504.9	1.3
10°-20°	1143.2	2.9
20°-30°	1725.5	4.3
30°-40°	2800.1	7.0
40°-50°	5265.5	13.2
50°-60°	8609.2	21.7
60°-70°	11444.7	28.8
70°-80°	7664.4	19.3
80°-90°	600.6	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°	39758.2	100.0
0°-180°	39758.2	100.0



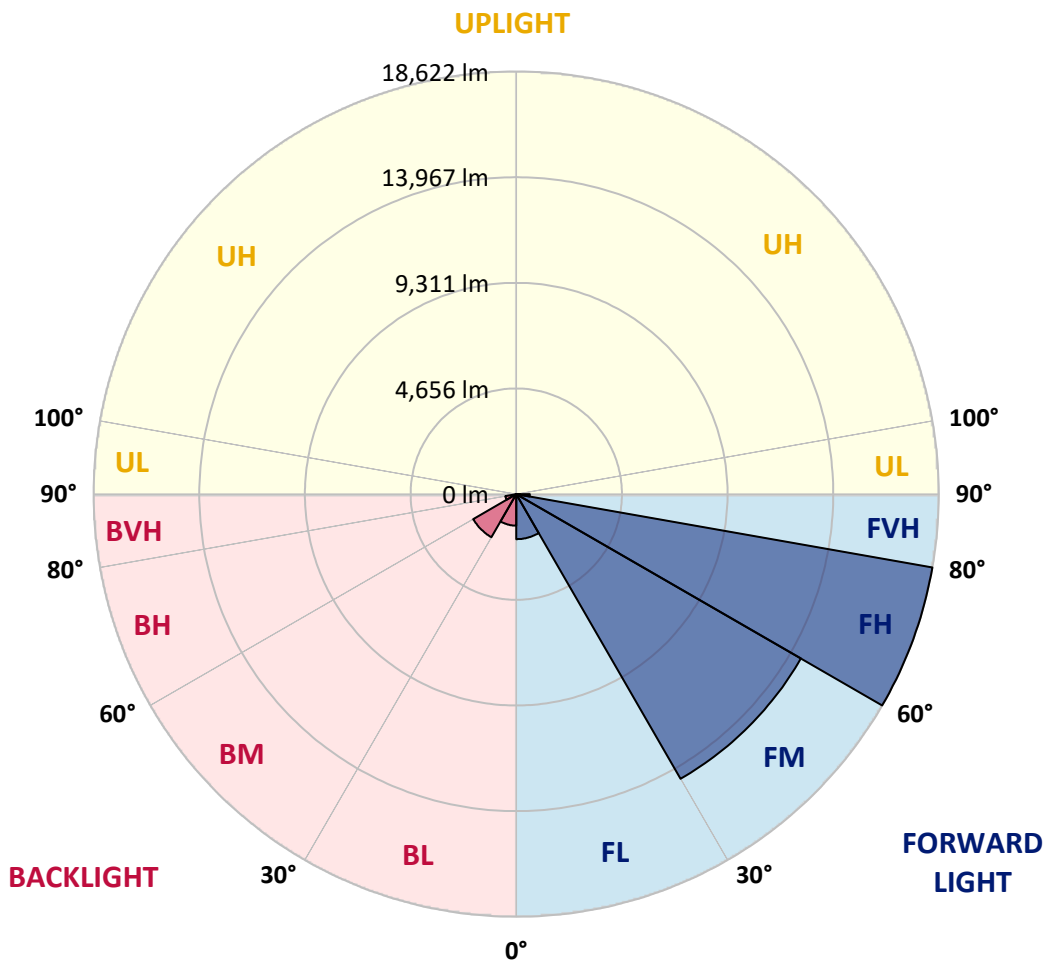
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 CATALOG NUMBER: IFLD-L-SA8D-735-U-T4FT-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1984.8	5.0			
FM (30°-60°)	14483.8	36.4			
FH (60°-80°)	18622.4	46.8			G5
FVH (80°-90°)	596.8	1.5			G4/750
BL (0°-30°)	1388.8	3.5	B3/2500		
BM (30°-60°)	2191.0	5.5	B2/2500		
BH (60°-80°)	486.7	1.2	B1/500		G1/500
BVH (80°-90°)	3.8	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





REPORT NUMBER: P483220

CATALOG NUMBER: IFLD-L-SA8D-735-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5816.7	5816.7	5816.7	5816.7	5816.7	5816.7	5816.7	5816.7	5816.7	5816.7	5816.7
2.5°	5144.2	5132.7	5167.2	5224.6	5282.1	5259.1	5368.3	5483.3	5563.8	5673.0	5805.2
5°	4494.7	4523.4	4557.9	4672.9	4747.6	4764.8	4966.0	5115.4	5362.6	5615.5	5851.1
7.5°	3902.7	3937.2	4006.1	4132.6	4287.8	4328.0	4529.2	4828.1	5149.9	5483.3	5868.4
10°	3471.6	3506.1	3580.8	3661.3	3868.2	3868.2	4144.1	4557.9	4977.5	5368.3	5874.1
12.5°	3379.6	3396.9	3391.1	3454.4	3586.6	3615.3	3885.4	4339.5	4828.1	5328.1	5966.1
15°	3488.8	3500.3	3442.9	3408.4	3523.3	3552.1	3805.0	4207.3	4730.3	5351.1	6115.5
17.5°	3707.3	3667.0	3552.1	3500.3	3598.0	3615.3	3850.9	4201.6	4718.8	5414.3	6288.0
20°	3833.7	3879.7	3678.5	3580.8	3718.7	3741.7	3994.6	4293.5	4776.3	5523.5	6529.4
22.5°	4057.9	4080.9	3810.7	3747.5	3879.7	3879.7	4167.1	4477.4	4914.3	5701.7	6816.7
25°	4374.0	4345.2	4029.1	3965.9	4092.3	4144.1	4431.5	4770.6	5126.9	5868.4	7081.1
27.5°	4621.1	4638.4	4379.7	4213.1	4425.7	4460.2	4770.6	5086.7	5287.9	6006.3	7403.0
30°	4989.0	4954.5	4678.6	4488.9	4753.3	4759.1	5058.0	5385.6	5598.2	6253.5	7885.8
32.5°	5425.8	5356.8	5040.7	4770.6	4983.2	5035.0	5339.6	5816.7	6081.0	6719.0	8633.0
35°	6351.2	6184.5	5667.2	5247.6	5264.9	5287.9	5759.2	6443.2	6747.8	7311.1	9633.1
37.5°	7701.9	7632.9	7046.7	6247.7	5943.1	5874.1	6402.9	7270.8	7650.2	8092.7	10932.1
40°	9041.1	8943.4	8397.4	7793.9	7242.1	7104.1	7368.5	8368.6	8713.5	9179.0	12265.6
42.5°	10529.8	10357.3	9713.6	9225.0	8880.2	8730.7	8627.3	9748.1	10138.9	10455.0	13570.3
45°	12035.6	11754.0	10822.9	10449.3	10265.4	10184.9	10173.4	11483.9	11719.5	11782.7	15018.7
47.5°	13357.6	13053.0	12208.1	11788.5	11650.5	11627.6	12271.3	13484.1	13300.1	13133.5	16633.8
50°	14375.0	14179.5	13570.3	13420.8	13317.4	13277.1	14783.0	15541.7	14691.1	14397.9	18053.5
52.5°	15949.8	15513.0	14823.3	14875.0	15237.1	15242.9	17329.3	17495.9	15846.4	15265.8	19392.7
55°	17208.6	16921.2	16357.9	16283.2	17237.3	17340.8	19611.1	18978.8	16490.1	16093.5	19887.0
57.5°	18691.5	18559.3	18151.2	18162.7	19162.8	19381.2	21640.0	20231.8	17024.6	16628.0	19961.7
60°	20835.3	20456.0	20243.3	20341.0	21519.3	21732.0	23605.7	21134.2	17283.3	16978.7	19777.8
62.5°	23203.4	22760.8	22530.9	23031.0	24749.5	24784.0	25100.1	21933.2	17122.3	17070.6	18593.7
65°	26054.2	25617.4	25433.5	26439.3	28479.8	28353.3	27198.0	22272.3	16610.8	16145.2	15484.3
67.5°	28893.6	28629.2	28249.9	29853.5	32393.9	32393.9	29376.4	22145.8	15271.6	12961.0	10127.4
70°	30238.6	30422.5	31026.0	33543.5	36239.1	35963.2	31526.0	20691.7	11368.9	6960.4	3983.1
72°	29341.9	29152.2	30709.9	34750.5	38607.2	38153.1	31163.9	16449.9	6569.6	3052.0	1385.2
72.5°	27801.5	27979.7	30123.6	34583.8	38164.6	38538.2	30278.8	15173.9	5402.8	2431.3	1046.1
75°	17047.6	17352.2	22484.9	29364.9	33256.1	32836.5	23421.8	7230.6	2074.9	1034.6	373.6
77.5°	6224.7	6477.6	10909.1	18478.8	23651.7	23387.3	13553.0	2569.2	1126.5	770.2	189.7
80°	1620.8	1753.0	3707.3	8523.8	13909.4	13926.6	5673.0	1028.8	764.4	632.2	115.0
82.5°	321.9	356.4	1138.0	3316.4	6500.6	6414.4	1793.3	551.8	574.8	517.3	80.5
85°	40.2	51.7	241.4	1126.5	2103.7	1885.2	442.6	275.9	425.3	402.3	51.7
87.5°	5.7	5.7	57.5	258.6	442.6	431.1	92.0	86.2	189.7	247.2	28.7
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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CATALOG NUMBER: IFLD-L-SA8D-735-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5816.7	5816.7	5816.7	5816.7	5816.7	5816.7	5816.7	5816.7	5816.7	5816.7	5816.7
2.5°	5879.9	5902.9	5983.3	6052.3	6132.8	6155.8	6121.3	6178.8	6098.3	6144.3	6155.8
5°	5891.4	6023.6	6173.0	6270.7	6247.7	6190.3	6144.3	5989.1	5879.9	5839.6	5925.9
7.5°	5971.8	6121.3	6282.2	6282.2	6155.8	5856.9	5569.5	5293.6	5063.7	4948.8	5046.5
10°	6075.3	6230.5	6397.2	6178.8	5707.4	5161.4	4753.3	4236.0	3885.4	3701.5	3718.7
12.5°	6213.2	6431.7	6489.1	5983.3	5201.7	4391.2	3649.8	2931.3	2598.0	2333.6	2339.3
15°	6391.4	6604.1	6431.7	5558.0	4557.9	3362.4	2471.5	1787.5	1523.1	1385.2	1385.2
17.5°	6627.1	6788.0	6414.4	5167.2	3690.0	2299.1	1517.4	1207.0	1149.5	1126.5	1126.5
20°	6903.0	7023.7	6247.7	4557.9	2741.6	1477.2	1115.1	1080.6	1086.3	1074.8	1074.8
22.5°	7213.3	7253.6	6058.1	3850.9	1856.5	1092.1	1040.3	1046.1	1051.8	1040.3	1046.1
25°	7541.0	7431.8	5782.2	3023.3	1235.8	994.3	1005.8	1017.3	1023.1	1028.8	1028.8
27.5°	7908.8	7690.4	5397.1	2212.9	965.6	936.9	971.4	1005.8	1011.6	1011.6	1005.8
30°	8449.1	8087.0	5023.5	1500.1	850.7	873.6	931.1	971.4	1000.1	1000.1	994.3
32.5°	9133.1	8500.8	4500.4	1023.1	787.4	798.9	844.9	925.4	988.6	994.3	977.1
35°	10081.4	9000.9	3954.4	816.2	741.5	747.2	775.9	839.2	948.4	982.9	977.1
37.5°	11081.5	9569.9	3276.2	735.7	707.0	701.2	718.5	770.2	867.9	954.1	959.9
40°	12144.9	10167.6	2563.5	695.5	678.2	666.7	672.5	695.5	770.2	879.4	902.4
42.5°	13144.9	10707.9	1925.5	655.2	649.5	638.0	638.0	643.7	684.0	758.7	770.2
45°	14225.5	11150.5	1465.7	626.5	609.3	615.0	592.0	580.5	609.3	615.0	609.3
47.5°	15237.1	11593.1	1172.5	592.0	574.8	574.8	546.0	523.0	523.0	471.3	465.6
50°	16185.5	11834.5	936.9	546.0	540.3	534.5	494.3	454.1	419.6	356.4	344.9
52.5°	16972.9	11823.0	724.2	488.6	505.8	488.6	425.3	367.9	316.1	258.6	247.2
55°	17208.6	11271.2	546.0	402.3	431.1	408.1	339.1	287.4	229.9	183.9	178.2
57.5°	17007.4	10432.0	413.8	310.4	333.4	310.4	258.6	212.7	160.9	126.4	115.0
60°	16334.9	9449.2	321.9	241.4	252.9	235.7	195.4	160.9	115.0	80.5	69.0
62.5°	15058.9	8219.2	247.2	189.7	183.9	183.9	149.4	120.7	80.5	46.0	40.2
65°	12357.5	6408.7	189.7	132.2	132.2	132.2	115.0	86.2	51.7	23.0	11.5
67.5°	7759.4	3730.2	155.2	103.5	97.7	97.7	80.5	57.5	28.7	5.7	0.0
70°	2919.8	1367.9	120.7	80.5	74.7	74.7	57.5	34.5	17.2	0.0	0.0
72°	1005.8	523.0	97.7	57.5	57.5	51.7	40.2	28.7	11.5	0.0	0.0
72.5°	827.7	419.6	92.0	57.5	51.7	51.7	40.2	28.7	11.5	0.0	0.0
75°	298.9	172.4	63.2	40.2	34.5	34.5	28.7	17.2	5.7	0.0	0.0
77.5°	149.4	109.2	51.7	34.5	28.7	17.2	17.2	11.5	5.7	0.0	0.0
80°	92.0	69.0	28.7	23.0	17.2	11.5	5.7	5.7	0.0	0.0	0.0
82.5°	63.2	40.2	17.2	17.2	11.5	5.7	0.0	0.0	0.0	0.0	0.0
85°	40.2	17.2	11.5	11.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.2	11.5	5.7	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)