

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: P483205

Luminaire Tested: **IFLD-S-SA6D-735-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483205
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

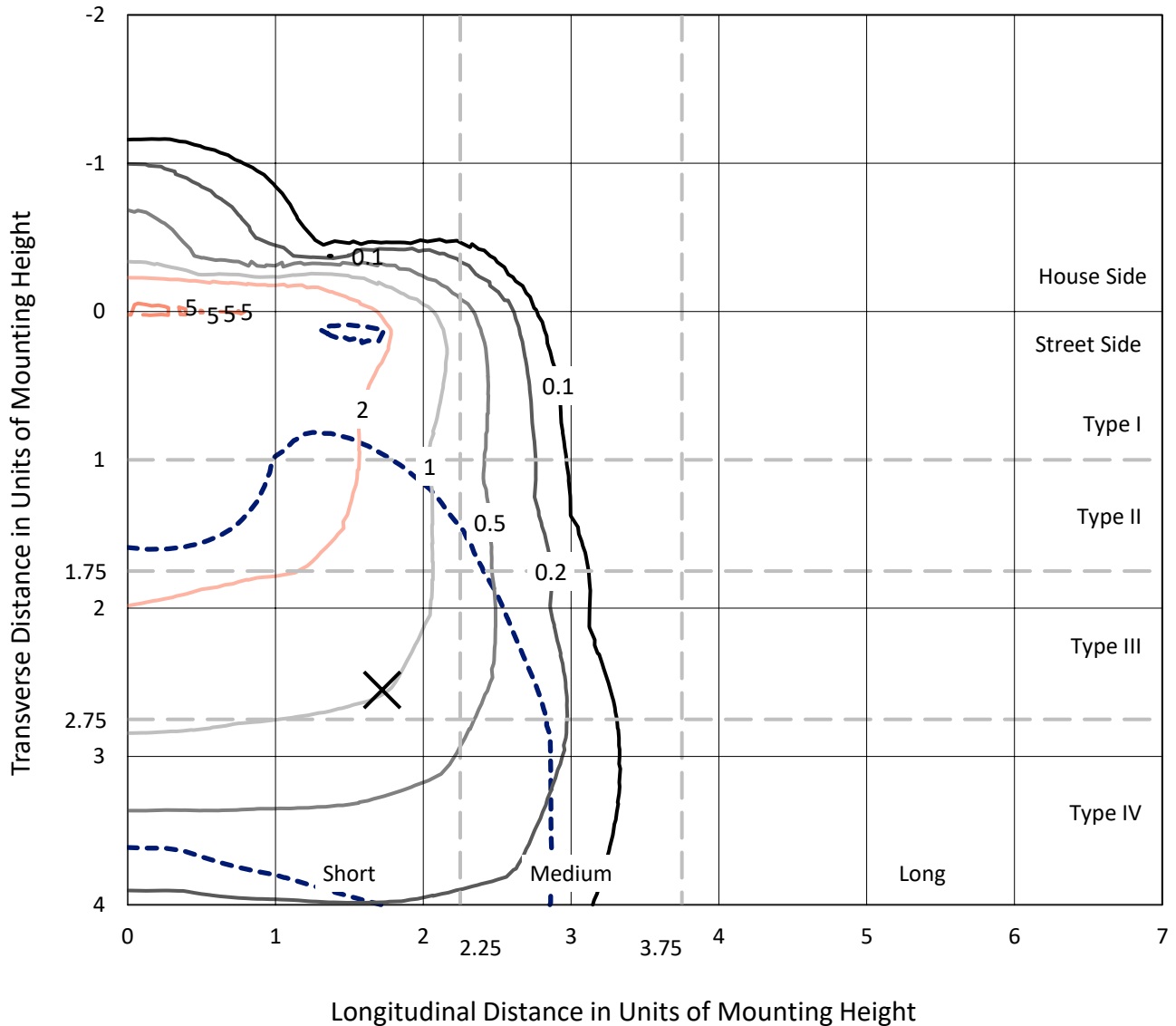
Lumens per Lamp: N/A
Luminaire Lumens: 32608 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

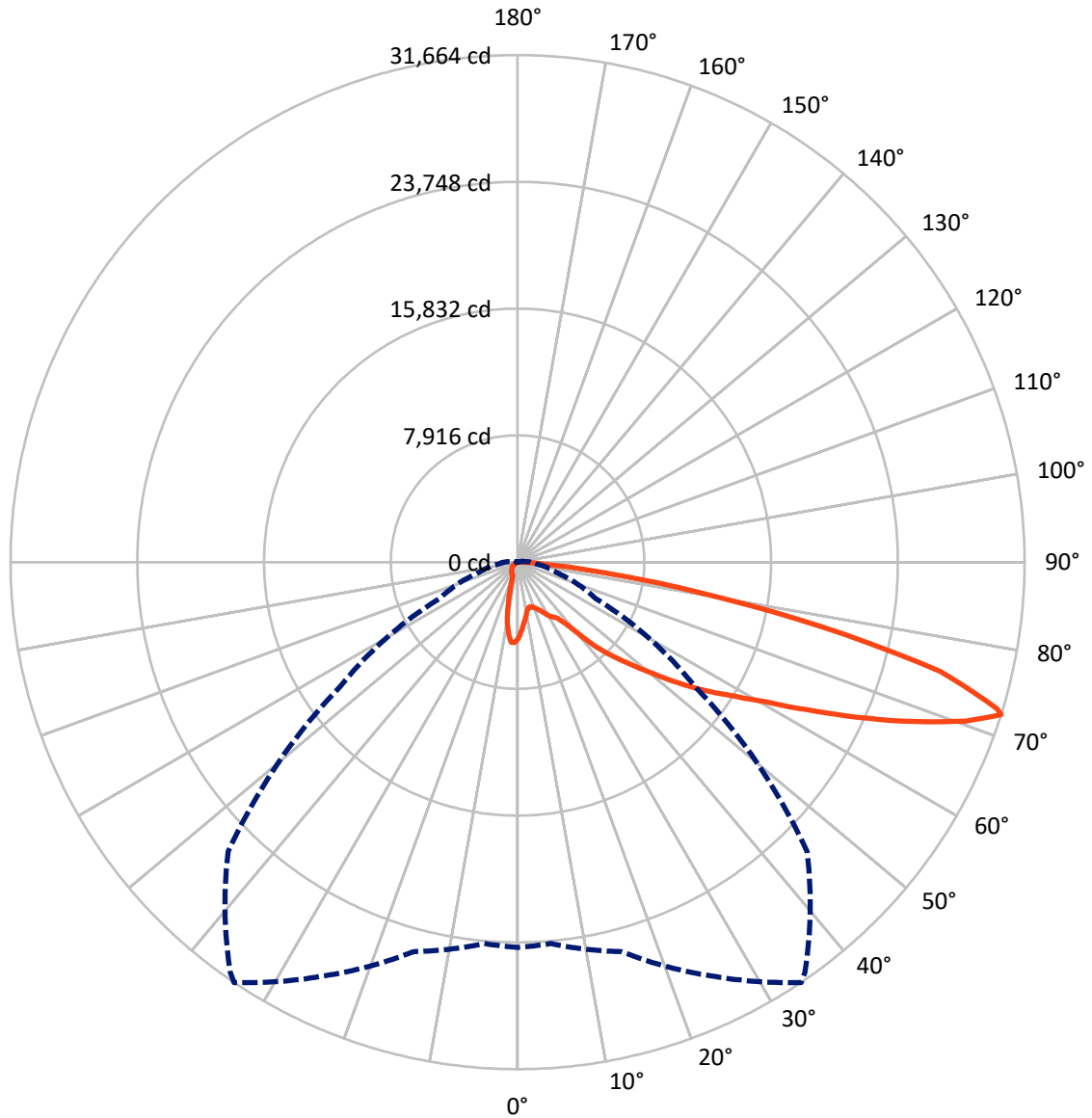
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 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	3338.3	0.0	3338.3
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	29269.7	0.0	29269.7
	% Fixture	89.8	0.0	89.8
Total	Lumens	32608.0	0.0	32608.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.1	1.3
10°-20°	937.6	2.9
20°-30°	1415.2	4.3
30°-40°	2296.6	7.0
40°-50°	4318.5	13.2
50°-60°	7060.9	21.7
60°-70°	9386.5	28.8
70°-80°	6286.0	19.3
80°-90°	492.6	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°	32608.0	100.0
0°-180°	32608.0	100.0

Coefficient of Utilization



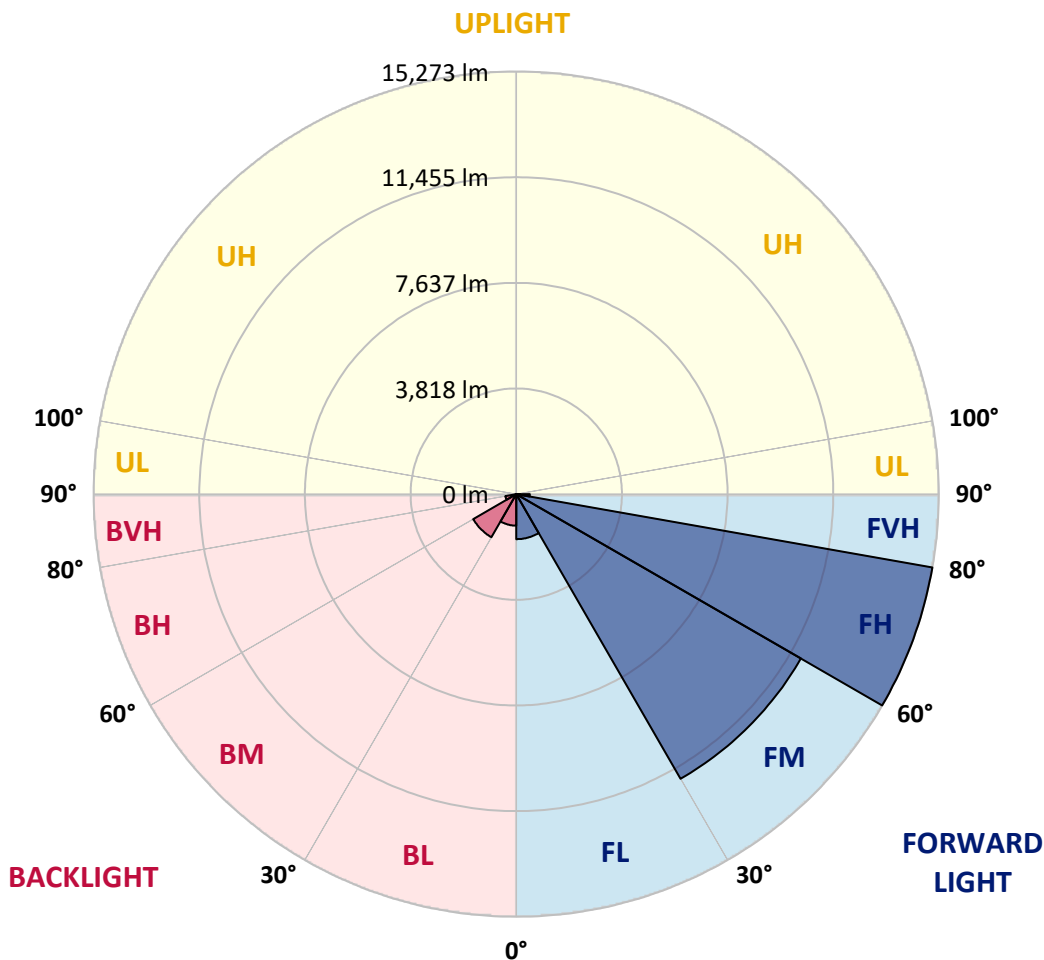
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1627.9	5.0			
FM (30°-60°)	11879.0	36.4			
FH (60°-80°)	15273.3	46.8			G5
FVH (80°-90°)	489.5	1.5			G3/500
BL (0°-30°)	1139.0	3.5	B3/2500		
BM (30°-60°)	1797.0	5.5	B2/2500		
BH (60°-80°)	399.2	1.2	B1/500		G1/500
BVH (80°-90°)	3.1	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°	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6
2.5°	4219.0	4209.6	4237.9	4285.0	4332.2	4313.3	4402.9	4497.2	4563.2	4652.7	4761.1
5°	3686.3	3709.9	3738.2	3832.5	3893.8	3907.9	4072.9	4195.5	4398.2	4605.6	4798.9
7.5°	3200.8	3229.1	3285.7	3389.4	3516.6	3549.6	3714.6	3959.8	4223.7	4497.2	4813.0
10°	2847.3	2875.5	2936.8	3002.8	3172.5	3172.5	3398.8	3738.2	4082.3	4402.9	4817.7
12.5°	2771.8	2786.0	2781.3	2833.1	2941.5	2965.1	3186.7	3559.1	3959.8	4369.9	4893.1
15°	2861.4	2870.8	2823.7	2795.4	2889.7	2913.3	3120.7	3450.6	3879.6	4388.7	5015.7
17.5°	3040.5	3007.5	2913.3	2870.8	2951.0	2965.1	3158.4	3445.9	3870.2	4440.6	5157.1
20°	3144.2	3182.0	3017.0	2936.8	3050.0	3068.8	3276.2	3521.4	3917.3	4530.2	5355.1
22.5°	3328.1	3346.9	3125.4	3073.5	3182.0	3182.0	3417.7	3672.2	4030.5	4676.3	5590.8
25°	3587.4	3563.8	3304.5	3252.7	3356.4	3398.8	3634.5	3912.6	4204.9	4813.0	5807.7
27.5°	3790.1	3804.2	3592.1	3455.4	3629.8	3658.1	3912.6	4171.9	4336.9	4926.1	6071.6
30°	4091.8	4063.5	3837.2	3681.6	3898.5	3903.2	4148.3	4417.0	4591.4	5128.8	6467.6
32.5°	4450.0	4393.5	4134.2	3912.6	4087.0	4129.5	4379.3	4770.6	4987.4	5510.7	7080.4
35°	5209.0	5072.3	4648.0	4303.9	4318.0	4336.9	4723.4	5284.4	5534.2	5996.2	7900.7
37.5°	6316.8	6260.2	5779.4	5124.1	4874.3	4817.7	5251.4	5963.2	6274.3	6637.3	8966.0
40°	7415.1	7335.0	6887.2	6392.2	5939.6	5826.5	6043.4	6863.6	7146.4	7528.3	10059.7
42.5°	8636.1	8494.6	7966.7	7566.0	7283.1	7160.6	7075.7	7994.9	8315.5	8574.8	11129.8
45°	9871.1	9640.1	8876.5	8570.1	8419.2	8353.2	8343.8	9418.6	9611.9	9663.7	12317.7
47.5°	10955.3	10705.5	10012.5	9668.4	9555.3	9536.4	10064.4	11059.0	10908.2	10771.5	13642.3
50°	11789.7	11629.4	11129.8	11007.2	10922.3	10889.3	12124.4	12746.7	12049.0	11808.6	14806.7
52.5°	13081.4	12723.1	12157.4	12199.8	12496.8	12501.5	14212.7	14349.4	12996.5	12520.4	15905.0
55°	14113.7	13878.0	13416.1	13354.8	14137.3	14222.1	16084.2	15565.6	13524.5	13199.2	16310.4
57.5°	15329.9	15221.5	14886.8	14896.2	15716.5	15895.6	17748.2	16593.3	13962.9	13637.6	16371.7
60°	17088.3	16777.1	16602.7	16682.9	17649.2	17823.6	19360.4	17333.4	14175.0	13925.2	16220.9
62.5°	19030.4	18667.4	18478.9	18889.0	20298.5	20326.8	20586.0	17988.6	14043.0	14000.6	15249.8
65°	21368.6	21010.3	20859.5	21684.4	23357.9	23254.2	22306.7	18266.8	13623.5	13241.6	12699.5
67.5°	23697.3	23480.4	23169.3	24484.5	26568.1	26568.1	24093.3	18163.1	12525.1	10630.1	8306.1
70°	24800.4	24951.2	25446.2	27510.9	29721.8	29495.5	25856.3	16970.4	9324.3	5708.7	3266.8
72°	24065.0	23909.4	25186.9	28500.9	31664.0	31291.5	25559.3	13491.5	5388.1	2503.1	1136.1
72.5°	22801.6	22947.8	24706.1	28364.2	31301.0	31607.4	24833.4	12445.0	4431.2	1994.0	857.9
75°	13981.7	14231.6	18441.2	24083.8	27275.2	26931.1	19209.6	5930.2	1701.8	848.5	306.4
77.5°	5105.3	5312.7	8947.2	15155.5	19398.1	19181.3	11115.6	2107.2	923.9	631.7	155.6
80°	1329.3	1437.8	3040.5	6990.9	11407.9	11422.0	4652.7	843.8	627.0	518.5	94.3
82.5°	264.0	292.3	933.4	2720.0	5331.5	5260.8	1470.8	452.5	471.4	424.3	66.0
85°	33.0	42.4	198.0	923.9	1725.3	1546.2	363.0	226.3	348.8	330.0	42.4
87.5°	4.7	4.7	47.1	212.1	363.0	353.6	75.4	70.7	155.6	202.7	23.6
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°	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6
2.5°	4822.4	4841.3	4907.3	4963.8	5029.8	5048.7	5020.4	5067.6	5001.6	5039.3	5048.7
5°	4831.9	4940.3	5062.8	5143.0	5124.1	5077.0	5039.3	4912.0	4822.4	4789.4	4860.1
7.5°	4897.8	5020.4	5152.4	5152.4	5048.7	4803.6	4567.9	4341.6	4153.0	4058.8	4138.9
10°	4982.7	5110.0	5246.7	5067.6	4681.0	4233.2	3898.5	3474.2	3186.7	3035.8	3050.0
12.5°	5095.8	5275.0	5322.1	4907.3	4266.2	3601.5	2993.4	2404.1	2130.7	1913.9	1918.6
15°	5242.0	5416.4	5275.0	4558.4	3738.2	2757.7	2027.0	1466.1	1249.2	1136.1	1136.1
17.5°	5435.2	5567.2	5260.8	4237.9	3026.4	1885.6	1244.5	989.9	942.8	923.9	923.9
20°	5661.5	5760.5	5124.1	3738.2	2248.6	1211.5	914.5	886.2	890.9	881.5	881.5
22.5°	5916.1	5949.1	4968.6	3158.4	1522.6	895.7	853.2	857.9	862.7	853.2	857.9
25°	6184.8	6095.2	4742.3	2479.6	1013.5	815.5	825.0	834.4	839.1	843.8	843.8
27.5°	6486.5	6307.3	4426.4	1814.9	792.0	768.4	796.7	825.0	829.7	829.7	825.0
30°	6929.6	6632.6	4120.0	1230.4	697.7	716.5	763.7	796.7	820.2	820.2	815.5
32.5°	7490.5	6972.0	3691.1	839.1	645.8	655.2	693.0	759.0	810.8	815.5	801.4
35°	8268.4	7382.1	3243.2	669.4	608.1	612.8	636.4	688.2	777.8	806.1	801.4
37.5°	9088.6	7848.8	2687.0	603.4	579.8	575.1	589.3	631.7	711.8	782.5	787.2
40°	9960.7	8339.1	2102.4	570.4	556.3	546.8	551.5	570.4	631.7	721.2	740.1
42.5°	10780.9	8782.2	1579.2	537.4	532.7	523.3	523.3	528.0	561.0	622.2	631.7
45°	11667.2	9145.2	1202.1	513.8	499.7	504.4	485.5	476.1	499.7	504.4	499.7
47.5°	12496.8	9508.1	961.7	485.5	471.4	471.4	447.8	429.0	429.0	386.5	381.8
50°	13274.6	9706.1	768.4	447.8	443.1	438.4	405.4	372.4	344.1	292.3	282.8
52.5°	13920.4	9696.7	594.0	400.7	414.8	400.7	348.8	301.7	259.3	212.1	202.7
55°	14113.7	9244.2	447.8	330.0	353.6	334.7	278.1	235.7	188.6	150.8	146.1
57.5°	13948.7	8555.9	339.4	254.6	273.4	254.6	212.1	174.4	132.0	103.7	94.3
60°	13397.2	7749.8	264.0	198.0	207.4	193.3	160.3	132.0	94.3	66.0	56.6
62.5°	12350.7	6741.0	202.7	155.6	150.8	150.8	122.6	99.0	66.0	37.7	33.0
65°	10135.1	5256.1	155.6	108.4	108.4	108.4	94.3	70.7	42.4	18.9	9.4
67.5°	6363.9	3059.4	127.3	84.9	80.1	80.1	66.0	47.1	23.6	4.7	0.0
70°	2394.7	1121.9	99.0	66.0	61.3	61.3	47.1	28.3	14.1	0.0	0.0
72°	825.0	429.0	80.1	47.1	47.1	42.4	33.0	23.6	9.4	0.0	0.0
72.5°	678.8	344.1	75.4	47.1	42.4	42.4	33.0	23.6	9.4	0.0	0.0
75°	245.1	141.4	51.9	33.0	28.3	28.3	23.6	14.1	4.7	0.0	0.0
77.5°	122.6	89.6	42.4	28.3	23.6	14.1	14.1	9.4	4.7	0.0	0.0
80°	75.4	56.6	23.6	18.9	14.1	9.4	4.7	4.7	0.0	0.0	0.0
82.5°	51.9	33.0	14.1	14.1	9.4	4.7	0.0	0.0	0.0	0.0	0.0
85°	33.0	14.1	9.4	9.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.1	9.4	4.7	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)