

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: P483594

Luminaire Tested: **IFLD-S-SA6C-735-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483594
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-735-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

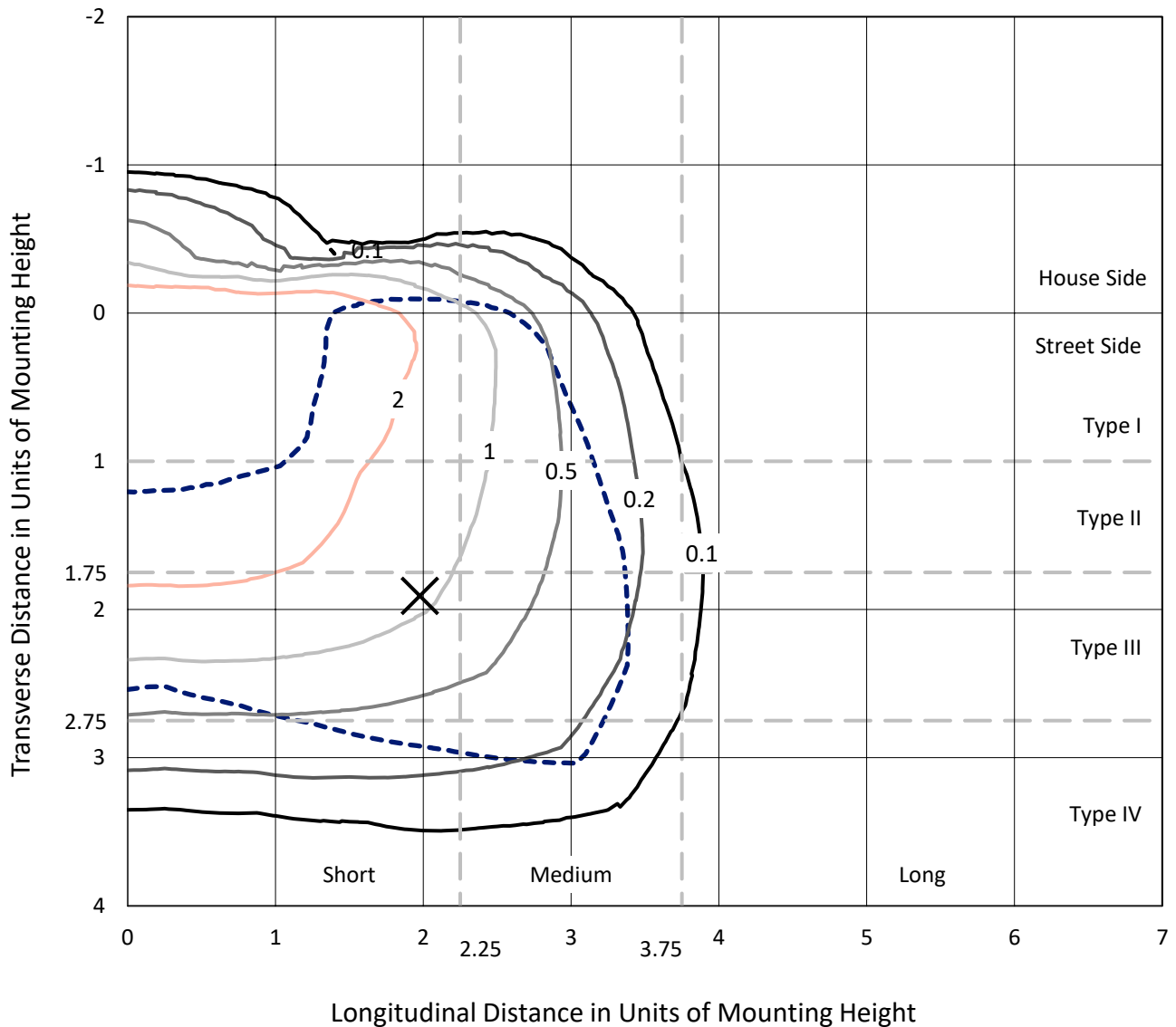
Lumens per Lamp: N/A
Luminaire Lumens: 30238.4 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 321.5
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

REPORT NUMBER: P483594
 CATALOG NUMBER: IFLD-S-SA6C-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

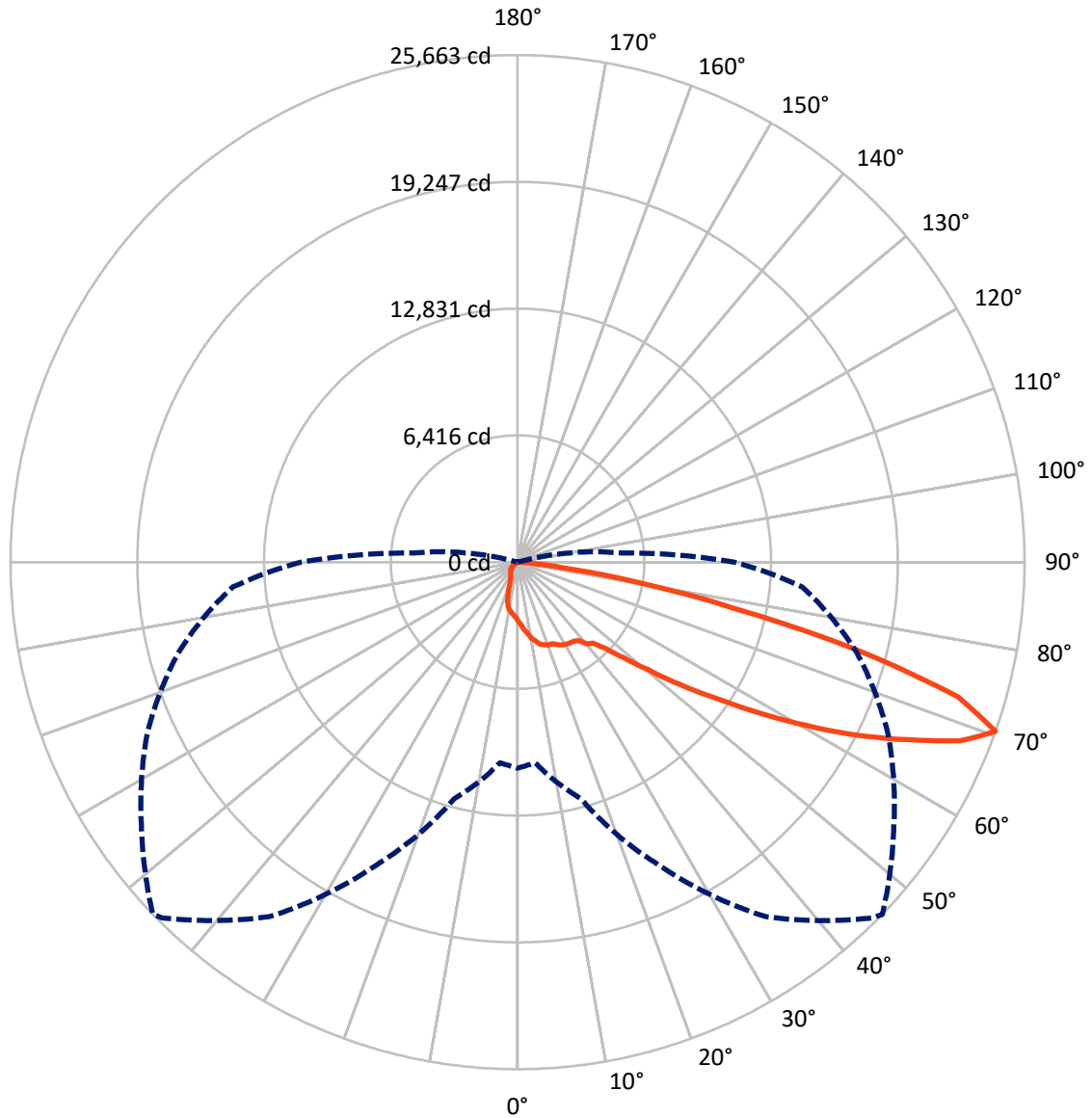
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P483594
CATALOG NUMBER: IFLD-S-SA6C-735-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P483594
 CATALOG NUMBER: IFLD-S-SA6C-735-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3008.8	0.0	3008.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	27229.6	0.0	27229.6
	% Fixture	90.0	0.0	90.0
Total	Lumens	30238.4	0.0	30238.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.0	1.0
10°-20°	893.9	3.0
20°-30°	1431.8	4.7
30°-40°	2043.7	6.8
40°-50°	3528.9	11.7
50°-60°	6756.3	22.3
60°-70°	10005.1	33.1
70°-80°	4955.4	16.4
80°-90°	327.5	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°	30238.4	100.0
0°-180°	30238.4	100.0

Coefficient of Utilization



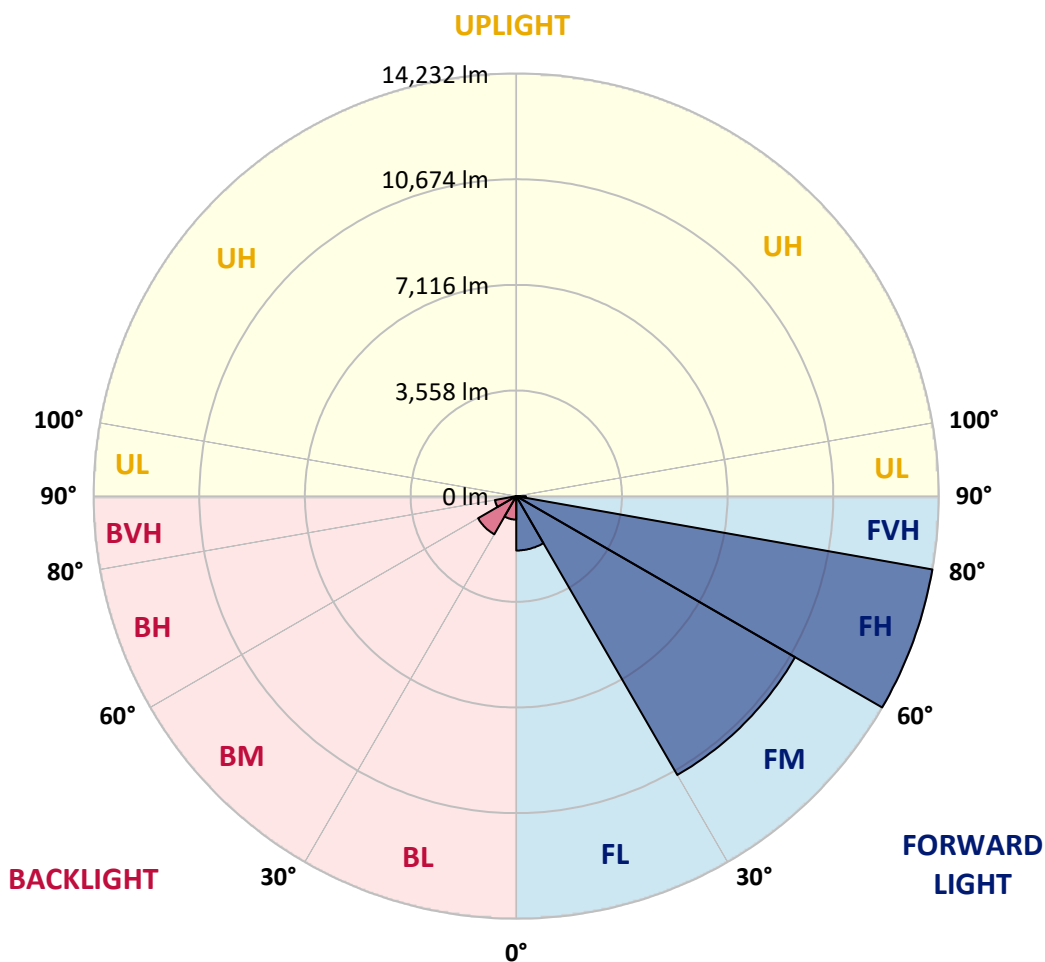
REPORT NUMBER: P483594
 CATALOG NUMBER: IFLD-S-SA6C-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1831.2	6.1			
FM (30°-60°)	10843.4	35.9			
FH (60°-80°)	14231.7	47.1			G5
FVH (80°-90°)	323.3	1.1			G3/500
BL (0°-30°)	790.5	2.6	B2/1000		
BM (30°-60°)	1485.5	4.9	B2/2500		
BH (60°-80°)	728.7	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





REPORT NUMBER: P483594

CATALOG NUMBER: IFLD-S-SA6C-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2968.5	2968.5	2968.5	2968.5	2968.5	2968.5	2968.5	2968.5	2968.5	2968.5	2968.5
2.5°	3312.3	3290.6	3255.7	3242.7	3207.9	3190.5	3164.3	3151.3	3103.4	3055.5	3025.1
5°	3717.1	3664.9	3682.3	3630.1	3516.9	3425.5	3421.1	3321.0	3212.2	3125.2	3007.6
7.5°	4126.3	4082.7	4017.4	3943.4	3817.2	3682.3	3643.1	3547.4	3395.0	3242.7	3086.0
10°	4435.3	4404.8	4348.2	4243.8	4069.7	3917.3	3921.7	3760.6	3599.6	3425.5	3212.2
12.5°	4626.8	4639.9	4557.2	4452.7	4300.4	4108.8	4104.5	3995.7	3812.9	3630.1	3377.6
15°	4818.3	4866.2	4740.0	4618.1	4422.2	4283.0	4309.1	4178.5	4000.0	3791.1	3512.5
17.5°	4848.8	4861.8	4835.7	4657.3	4513.6	4396.1	4400.5	4313.4	4178.5	3952.2	3712.8
20°	4796.6	4787.9	4757.4	4626.8	4531.0	4461.4	4465.8	4444.0	4370.0	4187.2	3860.8
22.5°	4644.2	4644.2	4605.0	4518.0	4474.5	4539.8	4487.5	4570.2	4491.9	4383.1	4113.2
25°	4522.3	4570.2	4548.5	4491.9	4509.3	4596.3	4622.5	4700.8	4687.7	4552.8	4287.3
27.5°	4652.9	4596.3	4609.4	4544.1	4609.4	4740.0	4753.0	4809.6	4805.3	4696.4	4444.0
30°	4740.0	4792.2	4692.1	4548.5	4618.1	4840.1	4831.4	4905.4	4940.2	4809.6	4592.0
32.5°	5018.5	4975.0	4892.3	4700.8	4709.5	4835.7	4874.9	4970.7	4992.4	4914.1	4735.6
35°	5588.7	5523.4	5162.2	4874.9	4831.4	4892.3	4918.4	5105.6	5144.8	5057.7	4888.0
37.5°	6468.0	6320.0	5884.7	5249.2	5053.4	5040.3	5040.3	5288.4	5436.4	5236.2	5114.3
40°	7725.9	7516.9	7046.8	5941.3	5345.0	5397.2	5449.4	5584.4	5567.0	5436.4	5410.3
42.5°	9327.6	9166.6	8657.3	7103.4	5902.1	5641.0	5597.4	5780.2	6054.5	6002.2	5984.8
45°	10663.9	10672.6	10346.1	8696.5	6864.0	6202.4	6232.9	6372.2	6833.6	6794.4	6790.0
47.5°	11638.8	11517.0	11469.1	10232.9	8265.6	7268.8	7225.3	7321.1	7921.7	8169.8	8283.0
50°	12526.8	12444.1	12330.9	11725.9	9950.0	8605.1	8561.6	8570.3	9488.7	9836.9	10115.4
52.5°	13628.0	13732.4	13358.1	12988.1	12130.7	10341.8	10293.9	10124.1	11264.5	11743.3	12074.1
55°	14986.0	14790.1	14367.9	14559.4	14215.6	12217.7	12130.7	11930.5	13288.5	13488.7	13836.9
57.5°	15286.3	15138.3	15573.6	16252.6	16583.4	14420.1	14385.3	14024.1	14990.3	14807.5	15791.2
60°	16035.0	16074.1	16679.1	18028.4	18603.0	16962.1	16792.3	16156.8	16640.0	16674.8	17723.8
62.5°	16805.4	16714.0	18067.6	19364.7	20248.3	19369.0	19312.5	18050.2	18598.6	18154.7	19543.1
65°	16239.5	16378.8	18315.7	20487.7	22381.0	21723.8	21675.9	19873.9	20174.3	19621.5	20283.1
67.5°	14228.6	13945.7	16657.4	19974.1	23477.9	24191.7	24139.5	21863.1	21062.2	19612.8	18746.6
70°	10428.8	10185.1	12396.2	16914.2	21906.6	25454.0	25662.9	23247.2	20700.9	17784.7	14463.7
72.5°	5109.9	5114.3	6946.7	11469.1	17332.0	23199.3	23303.8	21314.6	17784.7	13110.0	8191.6
75°	1510.3	1527.8	2572.4	5623.6	11203.6	17619.3	17736.8	16178.6	12326.5	6772.6	2794.4
77.5°	552.8	552.8	853.1	2111.0	5588.7	11120.9	11112.2	9932.6	6241.6	2293.8	652.9
80°	287.3	300.3	444.0	861.8	2420.0	5793.3	6010.9	4861.8	2372.2	966.3	191.5
82.5°	117.5	130.6	243.7	444.0	1162.1	2032.7	2224.2	1906.4	1031.6	674.7	87.1
85°	34.8	39.2	117.5	248.1	457.0	509.3	565.8	639.8	648.5	522.3	39.2
87.5°	4.4	4.4	47.9	82.7	100.1	108.8	126.2	126.2	330.8	365.6	21.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483594

CATALOG NUMBER: IFLD-S-SA6C-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2968.5	2968.5	2968.5	2968.5	2968.5	2968.5	2968.5	2968.5	2968.5	2968.5	2968.5
2.5°	2990.2	2968.5	2933.6	2855.3	2837.9	2781.3	2777.0	2724.7	2742.1	2707.3	2694.3
5°	2968.5	2920.6	2824.8	2763.9	2703.0	2663.8	2637.7	2615.9	2611.6	2594.1	2585.4
7.5°	3007.6	2942.4	2794.4	2698.6	2594.1	2559.3	2502.7	2498.4	2467.9	2437.5	2437.5
10°	3138.2	3020.7	2859.7	2698.6	2563.7	2450.5	2319.9	2224.2	2189.4	2111.0	2119.7
12.5°	3242.7	3138.2	2903.2	2737.8	2533.2	2276.4	1989.1	1767.2	1662.7	1562.6	1601.8
15°	3390.7	3238.3	2985.9	2746.5	2415.7	1971.7	1501.6	1253.5	1157.8	1136.0	1131.7
17.5°	3551.7	3390.7	3090.3	2724.7	2176.3	1523.4	1105.6	961.9	979.3	1005.4	1001.1
20°	3730.2	3534.3	3168.7	2650.7	1797.6	1105.6	905.3	901.0	927.1	966.3	975.0
22.5°	3917.3	3747.6	3264.4	2428.7	1340.6	887.9	870.5	870.5	887.9	935.8	927.1
25°	4126.3	3899.9	3312.3	2084.9	961.9	818.3	827.0	844.4	853.1	892.3	896.6
27.5°	4287.3	4069.7	3325.4	1671.4	783.5	757.4	779.1	800.9	813.9	844.4	857.5
30°	4435.3	4283.0	3255.7	1244.8	718.2	705.1	713.8	744.3	770.4	796.5	796.5
32.5°	4622.5	4404.8	3094.7	883.6	679.0	657.2	652.9	665.9	696.4	726.9	726.9
35°	4814.0	4609.4	2837.9	709.5	644.2	613.7	596.3	583.2	596.3	618.1	635.5
37.5°	5092.5	4918.4	2515.8	652.9	618.1	574.5	539.7	509.3	487.5	483.1	496.2
40°	5488.6	5266.6	2102.3	613.7	587.6	535.4	483.1	430.9	383.0	352.6	356.9
42.5°	6089.3	5780.2	1654.0	592.0	565.8	491.8	417.8	343.9	282.9	252.5	252.5
45°	6946.7	6459.2	1214.4	570.2	539.7	439.6	343.9	256.8	195.9	178.5	182.8
47.5°	8239.5	7277.5	870.5	535.4	504.9	383.0	269.9	182.8	143.6	134.9	139.3
50°	9928.3	8248.2	679.0	496.2	461.4	322.1	200.2	134.9	113.2	108.8	113.2
52.5°	11699.8	9227.5	596.3	461.4	396.1	256.8	148.0	108.8	95.8	91.4	95.8
55°	13214.5	9858.6	518.0	409.1	317.7	191.5	117.5	95.8	82.7	69.6	69.6
57.5°	14746.6	10176.4	409.1	339.5	235.0	143.6	100.1	82.7	69.6	56.6	52.2
60°	15991.4	10402.7	291.6	252.5	165.4	113.2	87.1	74.0	56.6	43.5	39.2
62.5°	16809.7	9754.2	213.3	191.5	121.9	95.8	74.0	60.9	43.5	30.5	30.5
65°	16404.9	8857.5	165.4	134.9	91.4	74.0	60.9	43.5	30.5	17.4	13.1
67.5°	14720.5	7216.6	134.9	100.1	69.6	56.6	47.9	34.8	17.4	4.4	4.4
70°	10981.6	5288.4	108.8	74.0	56.6	43.5	34.8	21.8	8.7	4.4	0.0
72.5°	6006.6	2894.5	87.1	60.9	43.5	34.8	26.1	17.4	8.7	0.0	0.0
75°	1984.8	770.4	65.3	43.5	26.1	21.8	17.4	13.1	4.4	0.0	0.0
77.5°	478.8	200.2	52.2	39.2	21.8	13.1	8.7	4.4	4.4	0.0	0.0
80°	148.0	82.7	39.2	26.1	17.4	13.1	4.4	0.0	0.0	0.0	0.0
82.5°	60.9	39.2	17.4	17.4	13.1	4.4	0.0	0.0	0.0	0.0	0.0
85°	30.5	21.8	13.1	8.7	8.7	4.4	0.0	0.0	0.0	0.0	0.0
87.5°	21.8	8.7	4.4	4.4	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)