

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: P483217

Luminaire Tested: **IFLD-L-SA8A-735-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483217
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-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

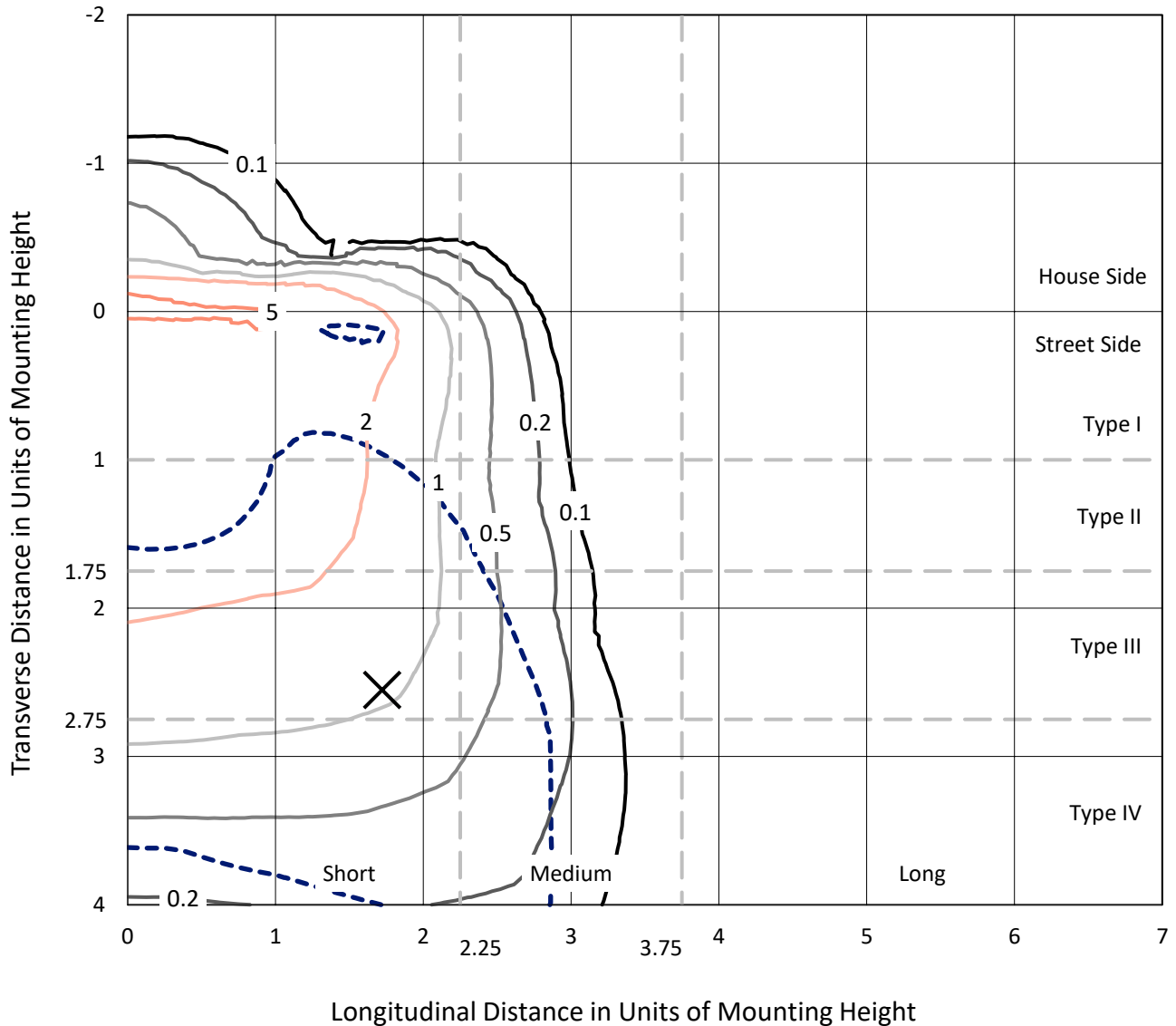
Lumens per Lamp: N/A
Luminaire Lumens: 24430.9 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8
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: P483217
 CATALOG NUMBER: IFLD-L-SA8A-735-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

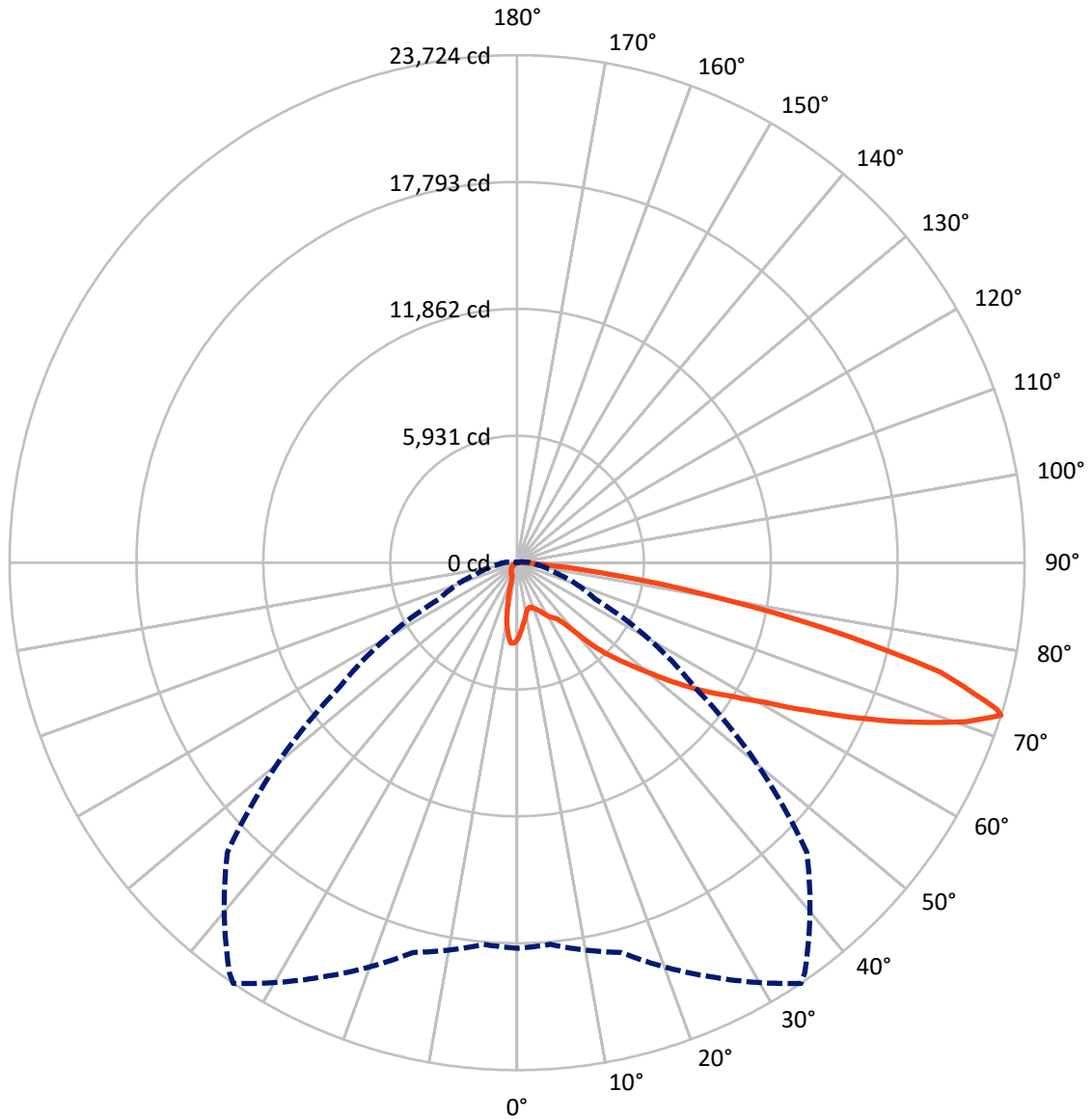
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P483217
CATALOG NUMBER: IFLD-L-SA8A-735-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P483217
 CATALOG NUMBER: IFLD-L-SA8A-735-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2501.2	0.0	2501.2
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	21929.8	0.0	21929.8
	% Fixture	89.8	0.0	89.8
Total	Lumens	24430.9	0.0	24430.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.3	1.3
10°-20°	702.5	2.9
20°-30°	1060.3	4.3
30°-40°	1720.7	7.0
40°-50°	3235.6	13.2
50°-60°	5290.2	21.7
60°-70°	7032.6	28.8
70°-80°	4709.7	19.3
80°-90°	369.1	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°	24430.9	100.0
0°-180°	24430.9	100.0

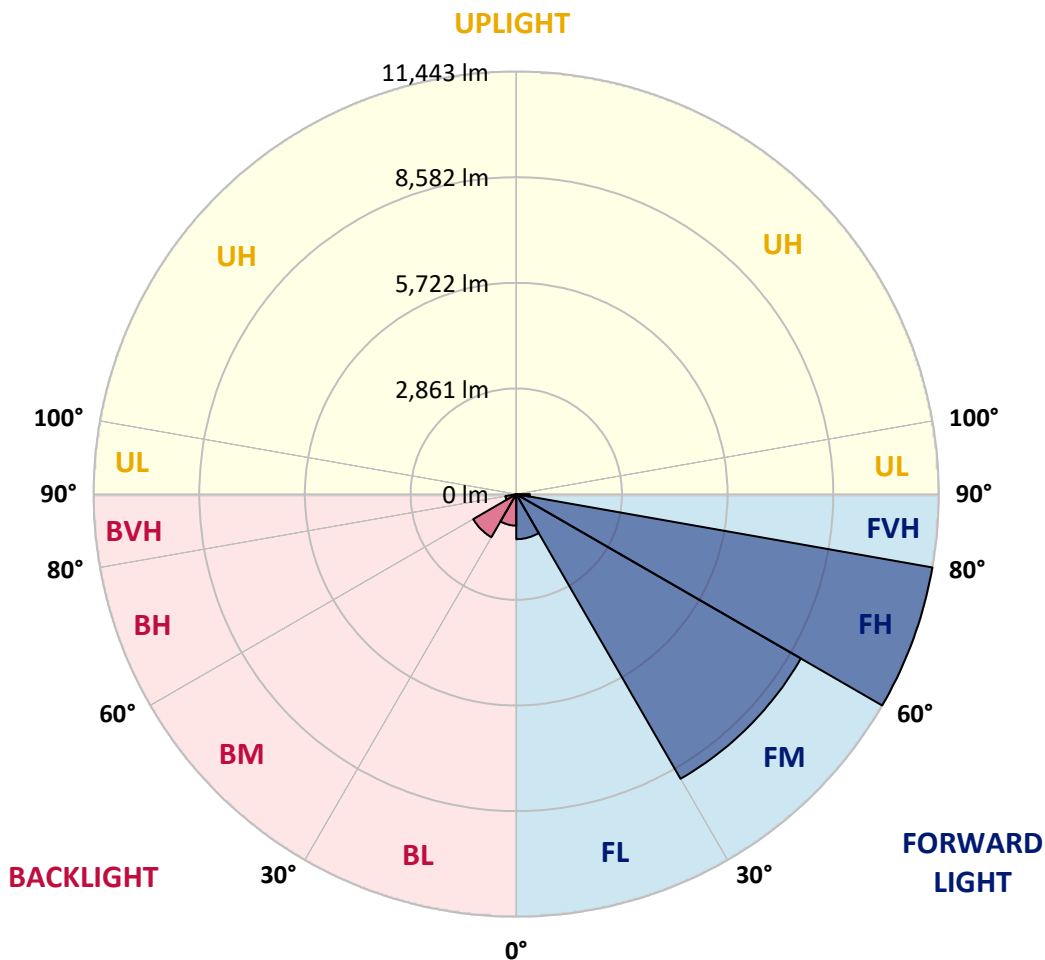


REPORT NUMBER: P483217
 CATALOG NUMBER: IFLD-L-SA8A-735-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1219.6	5.0			
FM (30°-60°)	8900.1	36.4			
FH (60°-80°)	11443.2	46.8			G4/12000
FVH (80°-90°)	366.7	1.5			G3/500
BL (0°-30°)	853.4	3.5	B2/1000		
BM (30°-60°)	1346.3	5.5	B2/2500		
BH (60°-80°)	299.1	1.2	B1/500		G1/500
BVH (80°-90°)	2.3	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-G4
 Type IV Short





REPORT NUMBER: P483217

CATALOG NUMBER: IFLD-L-SA8A-735-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3
2.5°	3161.0	3154.0	3175.2	3210.5	3245.8	3231.7	3298.8	3369.4	3418.9	3486.0	3567.2
5°	2761.9	2779.6	2800.8	2871.4	2917.3	2927.9	3051.5	3143.4	3295.2	3450.6	3595.5
7.5°	2398.1	2419.3	2461.7	2539.4	2634.8	2659.5	2783.1	2966.8	3164.6	3369.4	3606.0
10°	2133.3	2154.4	2200.4	2249.8	2377.0	2377.0	2546.5	2800.8	3058.6	3298.8	3609.6
12.5°	2076.7	2087.3	2083.8	2122.7	2203.9	2221.6	2387.6	2666.6	2966.8	3274.1	3666.1
15°	2143.9	2150.9	2115.6	2094.4	2165.0	2182.7	2338.1	2585.3	2906.7	3288.2	3757.9
17.5°	2278.1	2253.3	2182.7	2150.9	2211.0	2221.6	2366.4	2581.8	2899.7	3327.0	3863.9
20°	2355.8	2384.0	2260.4	2200.4	2285.1	2299.3	2454.7	2638.3	2935.0	3394.1	4012.2
22.5°	2493.5	2507.6	2341.6	2302.8	2384.0	2384.0	2560.6	2751.3	3019.8	3503.6	4188.8
25°	2687.8	2670.1	2475.8	2437.0	2514.7	2546.5	2723.1	2931.5	3150.4	3606.0	4351.3
27.5°	2839.6	2850.2	2691.3	2588.9	2719.5	2740.7	2931.5	3125.7	3249.3	3690.8	4549.1
30°	3065.7	3044.5	2874.9	2758.4	2920.9	2924.4	3108.1	3309.4	3440.0	3842.7	4845.7
32.5°	3334.1	3291.7	3097.5	2931.5	3062.1	3093.9	3281.1	3574.3	3736.7	4128.8	5304.9
35°	3902.7	3800.3	3482.4	3224.6	3235.2	3249.3	3538.9	3959.2	4146.4	4492.5	5919.4
37.5°	4732.7	4690.3	4330.1	3839.2	3652.0	3609.6	3934.5	4467.8	4700.9	4972.9	6717.6
40°	5555.6	5495.6	5160.1	4789.2	4450.2	4365.4	4527.9	5142.4	5354.3	5640.4	7537.0
42.5°	6470.4	6364.4	5968.9	5668.7	5456.8	5364.9	5301.3	5990.1	6230.2	6424.5	8338.8
45°	7395.8	7222.7	6650.5	6421.0	6307.9	6258.5	6251.4	7056.7	7201.5	7240.4	9228.8
47.5°	8208.1	8020.9	7501.7	7243.9	7159.1	7145.0	7540.6	8285.8	8172.8	8070.3	10221.3
50°	8833.2	8713.1	8338.8	8246.9	8183.4	8158.6	9084.0	9550.2	9027.5	8847.4	11093.6
52.5°	9801.0	9532.5	9108.7	9140.5	9363.0	9366.5	10648.6	10751.0	9737.4	9380.7	11916.6
55°	10574.4	10397.9	10051.7	10005.8	10592.1	10655.7	12050.8	11662.3	10133.0	9889.3	12220.3
57.5°	11485.7	11404.4	11153.7	11160.7	11775.3	11909.5	13297.5	12432.2	10461.4	10217.7	12266.2
60°	12803.1	12570.0	12439.3	12499.3	13223.4	13354.0	14505.4	12986.7	10620.4	10433.2	12153.2
62.5°	14258.2	13986.2	13845.0	14152.2	15208.3	15229.5	15423.7	13477.6	10521.5	10489.7	11425.6
65°	16010.0	15741.6	15628.6	16246.6	17500.5	17422.8	16712.9	13686.0	10207.1	9921.0	9514.9
67.5°	17754.8	17592.3	17359.2	18344.6	19905.7	19905.7	18051.4	13608.3	9384.2	7964.4	6223.2
70°	18581.2	18694.2	19065.1	20612.0	22268.5	22099.0	19372.4	12714.8	6986.1	4277.1	2447.6
72°	18030.2	17913.7	18870.8	21353.7	23723.6	23444.6	19149.8	10108.2	4036.9	1875.4	851.2
72.5°	17083.7	17193.2	18510.6	21251.3	23451.7	23681.2	18605.9	9324.2	3320.0	1494.0	642.8
75°	10475.6	10662.7	13816.7	18044.4	20435.5	20177.6	14392.4	4443.1	1275.0	635.7	229.6
77.5°	3825.0	3980.4	6703.5	11355.0	14533.7	14371.2	8328.2	1578.7	692.2	473.3	116.6
80°	996.0	1077.2	2278.1	5237.8	8547.1	8557.7	3486.0	632.2	469.7	388.5	70.6
82.5°	197.8	219.0	699.3	2037.9	3994.6	3941.6	1101.9	339.1	353.2	317.9	49.4
85°	24.7	31.8	148.3	692.2	1292.7	1158.5	272.0	169.5	261.4	247.2	31.8
87.5°	3.5	3.5	35.3	158.9	272.0	264.9	56.5	53.0	116.6	151.9	17.7
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: P483217

CATALOG NUMBER: IFLD-L-SA8A-735-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3
2.5°	3613.1	3627.2	3676.7	3719.1	3768.5	3782.6	3761.5	3796.8	3747.3	3775.6	3782.6
5°	3620.2	3701.4	3793.2	3853.3	3839.2	3803.8	3775.6	3680.2	3613.1	3588.4	3641.4
7.5°	3669.6	3761.5	3860.3	3860.3	3782.6	3599.0	3422.4	3252.9	3111.6	3040.9	3101.0
10°	3733.2	3828.6	3931.0	3796.8	3507.2	3171.6	2920.9	2603.0	2387.6	2274.5	2285.1
12.5°	3818.0	3952.2	3987.5	3676.7	3196.4	2698.4	2242.7	1801.3	1596.4	1433.9	1437.5
15°	3927.4	4058.1	3952.2	3415.3	2800.8	2066.1	1518.7	1098.4	935.9	851.2	851.2
17.5°	4072.3	4171.1	3941.6	3175.2	2267.5	1412.8	932.4	741.7	706.4	692.2	692.2
20°	4241.8	4316.0	3839.2	2800.8	1684.7	907.7	685.2	664.0	667.5	660.5	660.5
22.5°	4432.5	4457.2	3722.6	2366.4	1140.8	671.1	639.3	642.8	646.3	639.3	642.8
25°	4633.8	4566.7	3553.1	1857.8	759.4	611.0	618.1	625.1	628.7	632.2	632.2
27.5°	4859.9	4725.7	3316.4	1359.8	593.4	575.7	596.9	618.1	621.6	621.6	618.1
30°	5191.9	4969.4	3086.9	921.8	522.7	536.8	572.2	596.9	614.5	614.5	611.0
32.5°	5612.2	5223.6	2765.5	628.7	483.9	490.9	519.2	568.6	607.5	611.0	600.4
35°	6194.9	5530.9	2429.9	501.5	455.6	459.1	476.8	515.7	582.8	604.0	600.4
37.5°	6809.5	5880.6	2013.2	452.1	434.4	430.9	441.5	473.3	533.3	586.3	589.8
40°	7462.9	6247.9	1575.2	427.4	416.8	409.7	413.2	427.4	473.3	540.4	554.5
42.5°	8077.4	6579.9	1183.2	402.6	399.1	392.0	392.0	395.6	420.3	466.2	473.3
45°	8741.4	6851.8	900.6	385.0	374.4	377.9	363.8	356.7	374.4	377.9	374.4
47.5°	9363.0	7123.8	720.5	363.8	353.2	353.2	335.5	321.4	321.4	289.6	286.1
50°	9945.8	7272.1	575.7	335.5	332.0	328.5	303.7	279.0	257.8	219.0	211.9
52.5°	10429.6	7265.1	445.0	300.2	310.8	300.2	261.4	226.0	194.3	158.9	151.9
55°	10574.4	6926.0	335.5	247.2	264.9	250.8	208.4	176.6	141.3	113.0	109.5
57.5°	10450.8	6410.4	254.3	190.7	204.8	190.7	158.9	130.7	98.9	77.7	70.6
60°	10037.6	5806.4	197.8	148.3	155.4	144.8	120.1	98.9	70.6	49.4	42.4
62.5°	9253.5	5050.6	151.9	116.6	113.0	113.0	91.8	74.2	49.4	28.3	24.7
65°	7593.5	3938.0	116.6	81.2	81.2	81.2	70.6	53.0	31.8	14.1	7.1
67.5°	4768.0	2292.2	95.4	63.6	60.0	60.0	49.4	35.3	17.7	3.5	0.0
70°	1794.2	840.6	74.2	49.4	45.9	45.9	35.3	21.2	10.6	0.0	0.0
72°	618.1	321.4	60.0	35.3	35.3	31.8	24.7	17.7	7.1	0.0	0.0
72.5°	508.6	257.8	56.5	35.3	31.8	31.8	24.7	17.7	7.1	0.0	0.0
75°	183.7	106.0	38.9	24.7	21.2	21.2	17.7	10.6	3.5	0.0	0.0
77.5°	91.8	67.1	31.8	21.2	17.7	10.6	10.6	7.1	3.5	0.0	0.0
80°	56.5	42.4	17.7	14.1	10.6	7.1	3.5	3.5	0.0	0.0	0.0
82.5°	38.9	24.7	10.6	10.6	7.1	3.5	0.0	0.0	0.0	0.0	0.0
85°	24.7	10.6	7.1	7.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	7.1	3.5	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)