

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: P483257

Luminaire Tested: **IFLD-L-SA8B-740-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483257
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-740-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

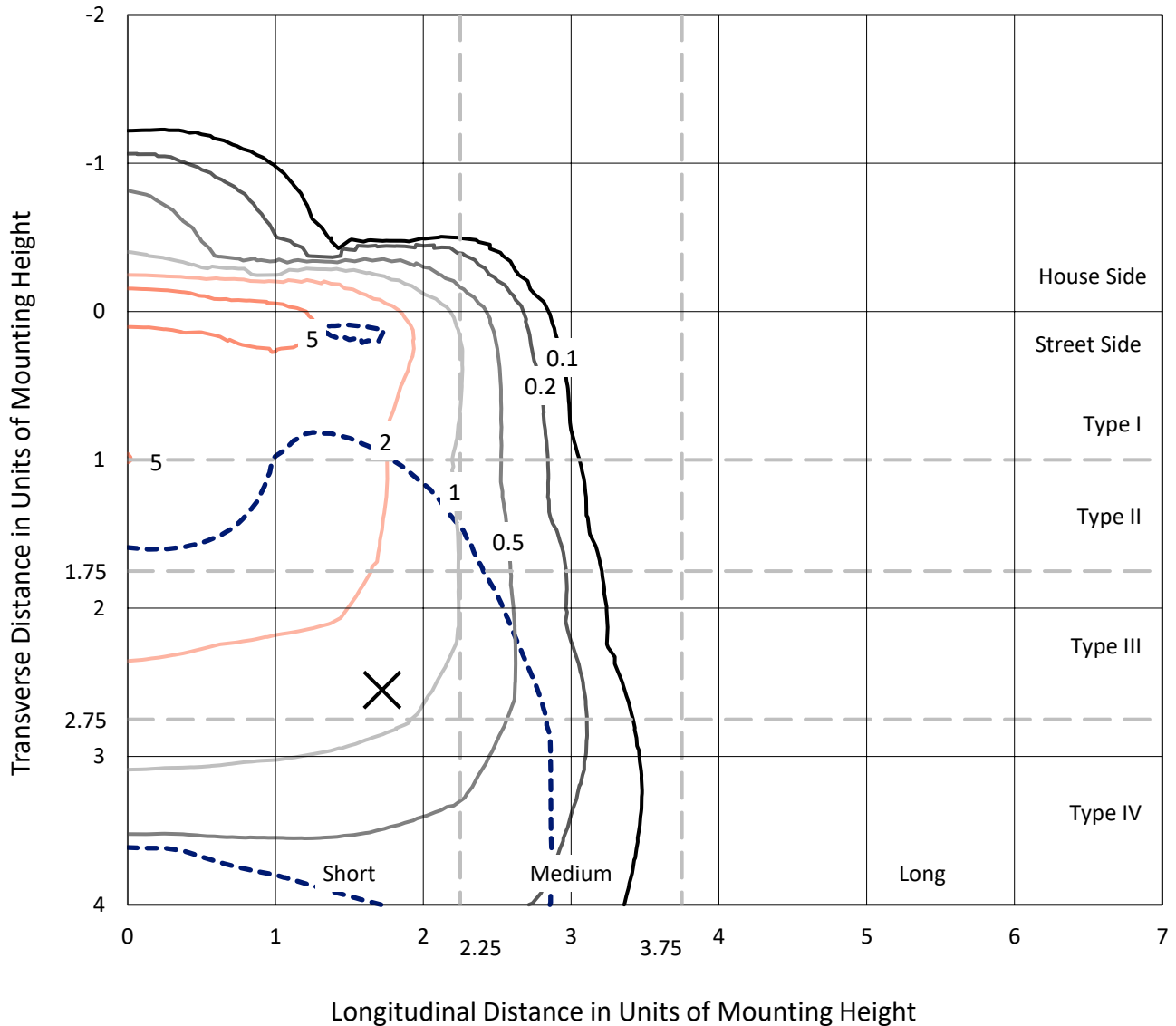
Lumens per Lamp: N/A
Luminaire Lumens: 29428.7 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

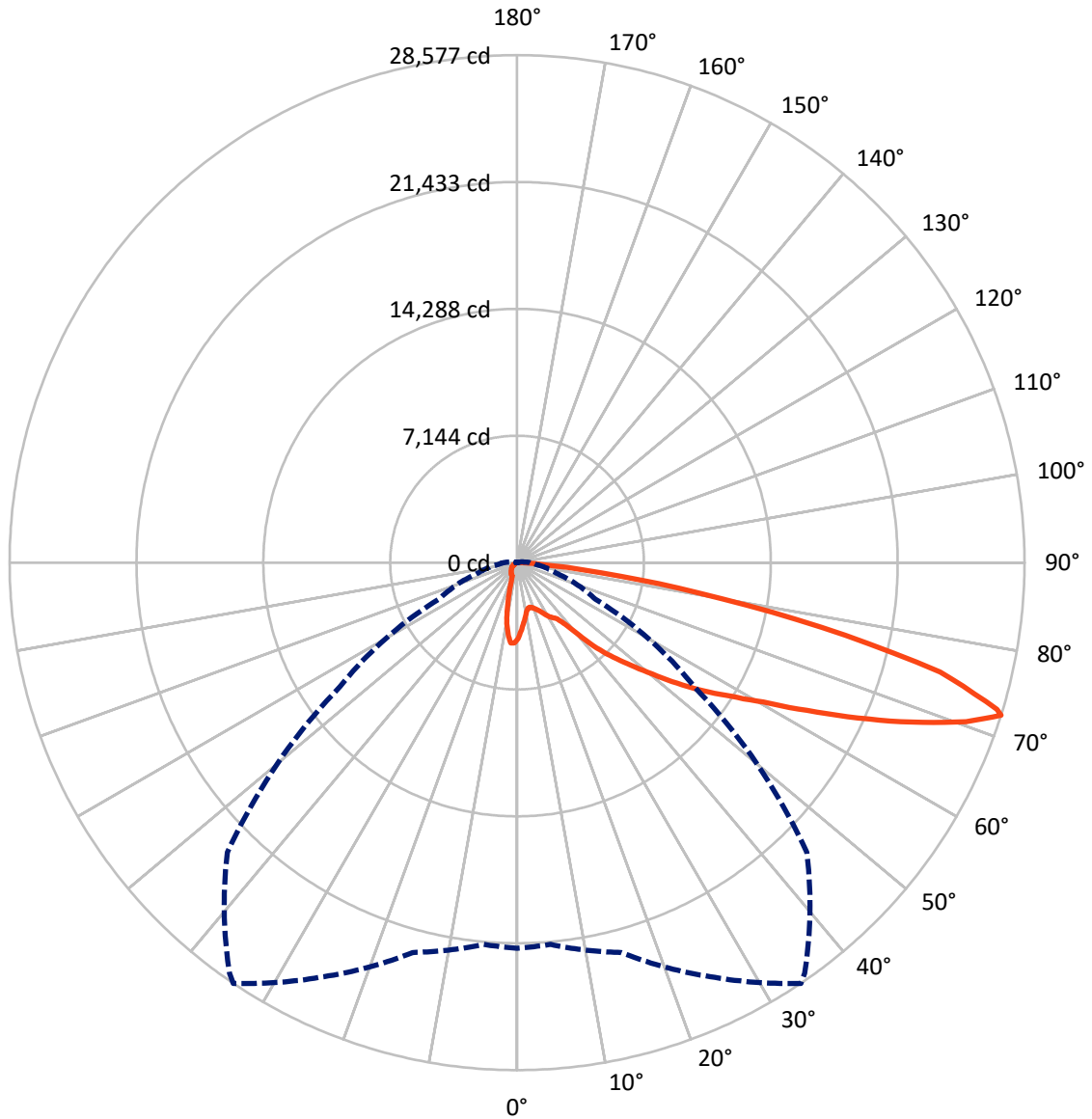
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	3012.8	0.0	3012.8
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	26415.9	0.0	26415.9
	% Fixture	89.8	0.0	89.8
Total	Lumens	29428.7	0.0	29428.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.7	1.3
10°-20°	846.2	2.9
20°-30°	1277.2	4.3
30°-40°	2072.6	7.0
40°-50°	3897.5	13.2
50°-60°	6372.5	21.7
60°-70°	8471.3	28.8
70°-80°	5673.2	19.3
80°-90°	444.6	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°	29428.7	100.0
0°-180°	29428.7	100.0



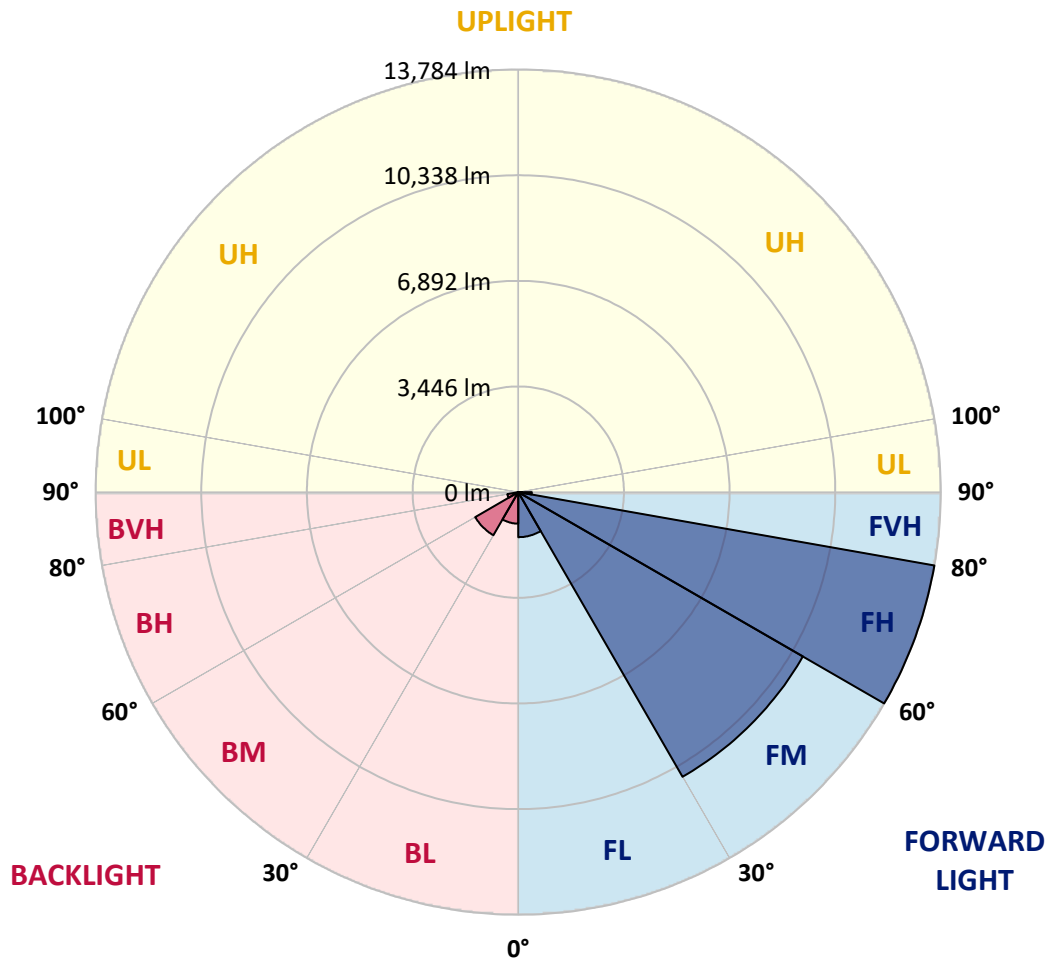
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1469.1	5.0			
FM (30°-60°)	10720.8	36.4			
FH (60°-80°)	13784.2	46.8			G5
FVH (80°-90°)	441.8	1.5			G3/500
BL (0°-30°)	1028.0	3.5	B3/2500		
BM (30°-60°)	1621.8	5.5	B2/2500		
BH (60°-80°)	360.3	1.2	B1/500		G1/500
BVH (80°-90°)	2.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4305.4	4305.4	4305.4	4305.4	4305.4	4305.4	4305.4	4305.4	4305.4	4305.4	4305.4
2.5°	3807.7	3799.2	3824.7	3867.2	3909.8	3892.8	3973.6	4058.7	4118.3	4199.1	4296.9
5°	3326.9	3348.2	3373.7	3458.8	3514.1	3526.9	3675.8	3786.4	3969.3	4156.5	4331.0
7.5°	2888.7	2914.3	2965.3	3058.9	3173.8	3203.6	3352.5	3573.7	3811.9	4058.7	4343.7
10°	2569.7	2595.2	2650.5	2710.0	2863.2	2863.2	3067.4	3373.7	3684.3	3973.6	4348.0
12.5°	2501.6	2514.3	2510.1	2556.9	2654.7	2676.0	2876.0	3212.1	3573.7	3943.8	4416.1
15°	2582.4	2590.9	2548.4	2522.9	2607.9	2629.2	2816.4	3114.2	3501.4	3960.8	4526.7
17.5°	2744.1	2714.3	2629.2	2590.9	2663.2	2676.0	2850.4	3110.0	3492.9	4007.6	4654.3
20°	2837.7	2871.7	2722.8	2650.5	2752.6	2769.6	2956.8	3178.0	3535.4	4088.5	4833.0
22.5°	3003.6	3020.6	2820.7	2773.9	2871.7	2871.7	3084.4	3314.2	3637.5	4220.4	5045.7
25°	3237.6	3216.3	2982.3	2935.5	3029.1	3067.4	3280.1	3531.1	3794.9	4343.7	5241.4
27.5°	3420.5	3433.3	3241.8	3118.5	3275.9	3301.4	3531.1	3765.1	3914.0	4445.8	5479.7
30°	3692.8	3667.3	3463.1	3322.7	3518.4	3522.6	3743.9	3986.4	4143.8	4628.8	5837.0
32.5°	4016.1	3965.1	3731.1	3531.1	3688.6	3726.8	3952.3	4305.4	4501.1	4973.4	6390.1
35°	4701.1	4577.7	4194.8	3884.3	3897.0	3914.0	4262.9	4769.2	4994.7	5411.6	7130.4
37.5°	5700.9	5649.8	5215.9	4624.5	4399.0	4348.0	4739.4	5381.8	5662.6	5990.2	8091.9
40°	6692.2	6619.8	6215.7	5769.0	5360.5	5258.4	5454.1	6194.4	6449.7	6794.3	9078.9
42.5°	7794.0	7666.4	7189.9	6828.3	6573.0	6462.4	6385.8	7215.4	7504.7	7738.7	10044.6
45°	8908.7	8700.2	8011.0	7734.5	7598.3	7538.8	7530.3	8500.3	8674.7	8721.5	11116.7
47.5°	9887.2	9661.7	9036.3	8725.8	8623.7	8606.6	9083.1	9980.8	9844.7	9721.3	12312.2
50°	10640.2	10495.6	10044.6	9934.0	9857.4	9827.6	10942.3	11503.9	10874.2	10657.3	13363.0
52.5°	11805.9	11482.6	10972.1	11010.4	11278.4	11282.6	12827.0	12950.4	11729.4	11299.7	14354.3
55°	12737.6	12524.9	12108.0	12052.7	12758.9	12835.5	14516.0	14048.0	12205.8	11912.3	14720.2
57.5°	13835.3	13737.4	13435.4	13443.9	14184.1	14345.8	16017.8	14975.5	12601.5	12308.0	14775.5
60°	15422.2	15141.4	14984.0	15056.3	15928.4	16085.9	17472.8	15643.4	12793.0	12567.5	14639.4
62.5°	17175.0	16847.4	16677.2	17047.3	18319.4	18344.9	18578.9	16234.8	12673.8	12635.5	13763.0
65°	19285.2	18961.8	18825.7	19570.2	21080.5	20986.9	20131.8	16485.8	12295.2	11950.6	11461.3
67.5°	21386.8	21191.1	20910.3	22097.3	23977.7	23977.7	21744.2	16392.2	11303.9	9593.7	7496.2
70°	22382.4	22518.5	22965.2	24828.6	26823.9	26619.7	23335.3	15315.8	8415.2	5152.1	2948.3
72°	21718.7	21578.3	22731.2	25722.1	28576.7	28240.7	23067.3	12176.1	4862.8	2259.1	1025.3
72.5°	20578.5	20710.4	22297.3	25598.7	28249.2	28525.7	22412.1	11231.6	3999.1	1799.6	774.3
75°	12618.5	12844.0	16643.2	21735.7	24615.9	24305.3	17336.6	5352.0	1535.8	765.8	276.5
77.5°	4607.5	4794.7	8074.8	13677.9	17506.8	17311.1	10031.9	1901.7	833.9	570.1	140.4
80°	1199.7	1297.6	2744.1	6309.3	10295.6	10308.4	4199.1	761.5	565.8	468.0	85.1
82.5°	238.2	263.8	842.4	2454.8	4811.7	4747.9	1327.4	408.4	425.4	382.9	59.6
85°	29.8	38.3	178.7	833.9	1557.1	1395.4	327.6	204.2	314.8	297.8	38.3
87.5°	4.3	4.3	42.5	191.4	327.6	319.1	68.1	63.8	140.4	182.9	21.3
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°	4305.4	4305.4	4305.4	4305.4	4305.4	4305.4	4305.4	4305.4	4305.4	4305.4	4305.4
2.5°	4352.2	4369.3	4428.8	4479.9	4539.4	4556.5	4530.9	4573.5	4513.9	4547.9	4556.5
5°	4360.8	4458.6	4569.2	4641.5	4624.5	4582.0	4547.9	4433.1	4352.2	4322.5	4386.3
7.5°	4420.3	4530.9	4650.0	4650.0	4556.5	4335.2	4122.5	3918.3	3748.1	3663.0	3735.4
10°	4496.9	4611.8	4735.1	4573.5	4224.6	3820.4	3518.4	3135.5	2876.0	2739.8	2752.6
12.5°	4599.0	4760.7	4803.2	4428.8	3850.2	3250.4	2701.5	2169.7	1923.0	1727.3	1731.5
15°	4730.9	4888.3	4760.7	4114.0	3373.7	2488.8	1829.4	1323.1	1127.4	1025.3	1025.3
17.5°	4905.3	5024.4	4747.9	3824.7	2731.3	1701.8	1123.2	893.4	850.9	833.9	833.9
20°	5109.5	5198.9	4624.5	3373.7	2029.3	1093.4	825.4	799.8	804.1	795.6	795.6
22.5°	5339.3	5369.0	4484.1	2850.4	1374.2	808.3	770.0	774.3	778.6	770.0	774.3
25°	5581.8	5500.9	4279.9	2237.8	914.7	736.0	744.5	753.0	757.3	761.5	761.5
27.5°	5854.0	5692.4	3994.9	1637.9	714.7	693.5	719.0	744.5	748.8	748.8	744.5
30°	6254.0	5985.9	3718.3	1110.4	629.6	646.7	689.2	719.0	740.3	740.3	736.0
32.5°	6760.2	6292.2	3331.2	757.3	582.9	591.4	625.4	685.0	731.8	736.0	723.2
35°	7462.2	6662.4	2927.0	604.1	548.8	553.1	574.3	621.1	702.0	727.5	723.2
37.5°	8202.5	7083.6	2425.0	544.6	523.3	519.0	531.8	570.1	642.4	706.2	710.5
40°	8989.5	7526.0	1897.5	514.8	502.0	493.5	497.8	514.8	570.1	650.9	667.9
42.5°	9729.8	7925.9	1425.2	485.0	480.7	472.2	472.2	476.5	506.3	561.6	570.1
45°	10529.6	8253.5	1084.9	463.7	451.0	455.2	438.2	429.7	451.0	455.2	451.0
47.5°	11278.4	8581.1	867.9	438.2	425.4	425.4	404.2	387.1	387.1	348.9	344.6
50°	11980.4	8759.8	693.5	404.2	399.9	395.7	365.9	336.1	310.6	263.8	255.3
52.5°	12563.2	8751.3	536.1	361.6	374.4	361.6	314.8	272.3	234.0	191.4	182.9
55°	12737.6	8342.9	404.2	297.8	319.1	302.1	251.0	212.7	170.2	136.1	131.9
57.5°	12588.7	7721.7	306.3	229.7	246.8	229.7	191.4	157.4	119.1	93.6	85.1
60°	12091.0	6994.2	238.2	178.7	187.2	174.4	144.6	119.1	85.1	59.6	51.1
62.5°	11146.5	6083.8	182.9	140.4	136.1	136.1	110.6	89.3	59.6	34.0	29.8
65°	9146.9	4743.6	140.4	97.9	97.9	97.9	85.1	63.8	38.3	17.0	8.5
67.5°	5743.4	2761.1	114.9	76.6	72.3	72.3	59.6	42.5	21.3	4.3	0.0
70°	2161.2	1012.5	89.3	59.6	55.3	55.3	42.5	25.5	12.8	0.0	0.0
72°	744.5	387.1	72.3	42.5	42.5	38.3	29.8	21.3	8.5	0.0	0.0
72.5°	612.6	310.6	68.1	42.5	38.3	38.3	29.8	21.3	8.5	0.0	0.0
75°	221.2	127.6	46.8	29.8	25.5	25.5	21.3	12.8	4.3	0.0	0.0
77.5°	110.6	80.8	38.3	25.5	21.3	12.8	12.8	8.5	4.3	0.0	0.0
80°	68.1	51.1	21.3	17.0	12.8	8.5	4.3	4.3	0.0	0.0	0.0
82.5°	46.8	29.8	12.8	12.8	8.5	4.3	0.0	0.0	0.0	0.0	0.0
85°	29.8	12.8	8.5	8.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.8	8.5	4.3	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)