

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: P482907

Luminaire Tested: **IFLD-L-SA8C-750-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482907
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-750-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (128) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

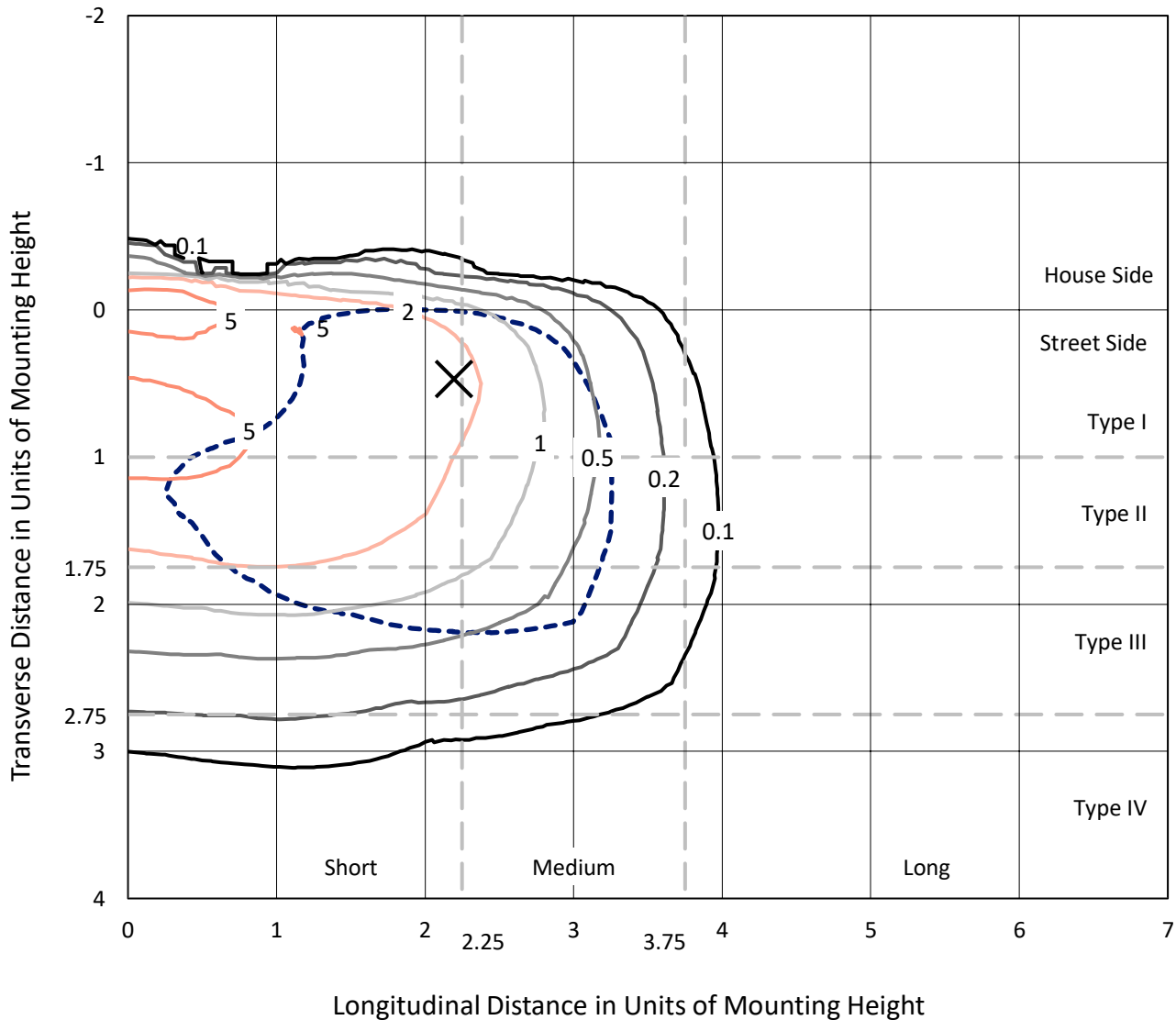
Lumens per Lamp: N/A
Luminaire Lumens: 37148.6 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (A_{in}): 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

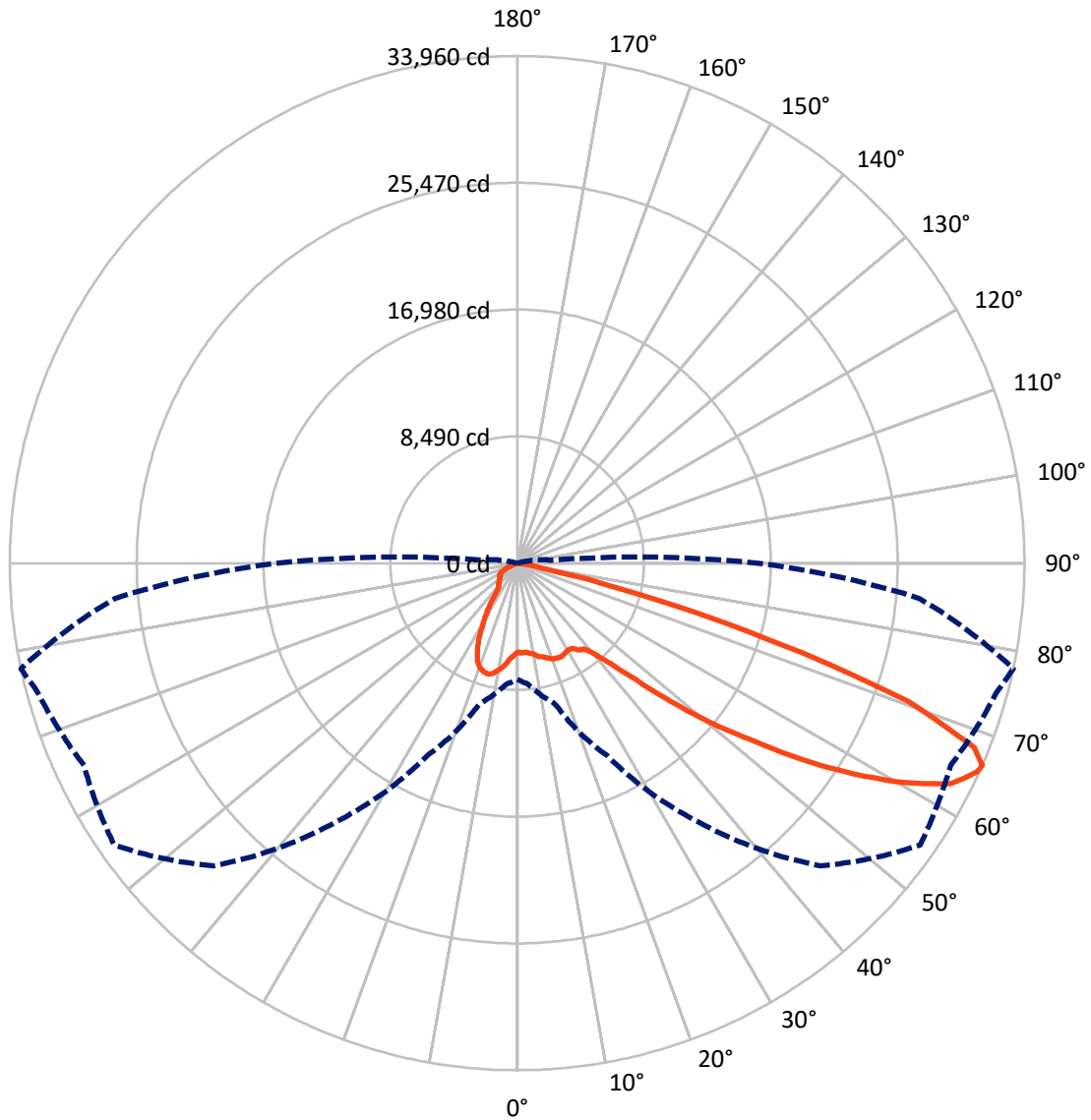
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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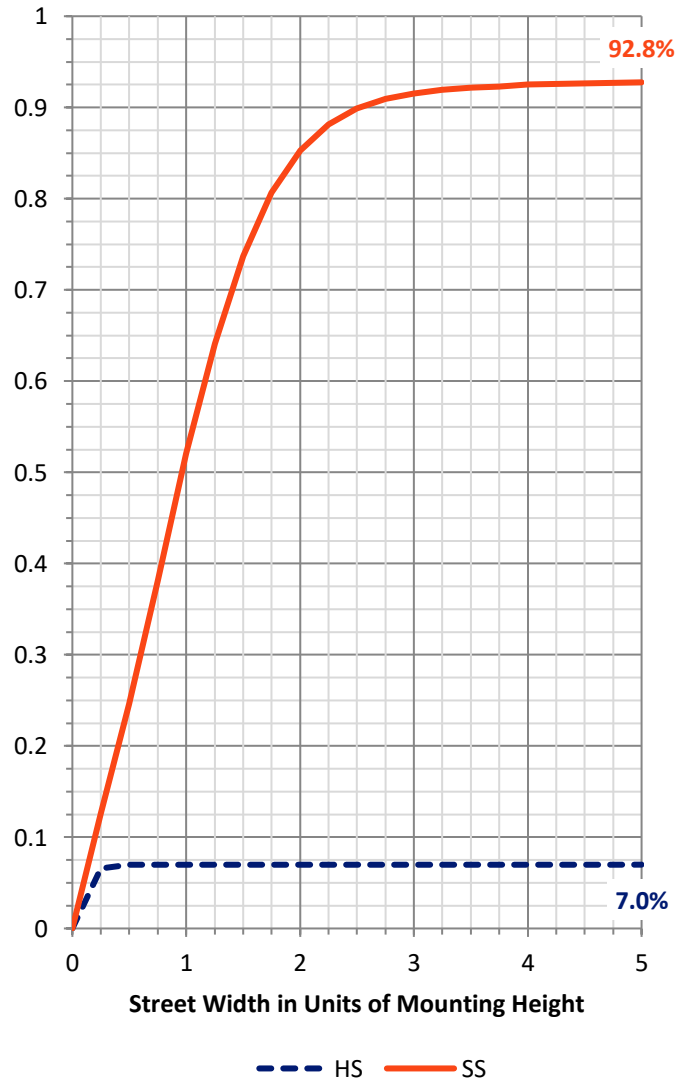
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2611.7	0.0	2611.7
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	34536.9	0.0	34536.9
	% Fixture	93.0	0.0	93.0
Total	Lumens	37148.6	0.0	37148.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.3	1.5
10°-20°	1228.8	3.3
20°-30°	1756.3	4.7
30°-40°	3006.3	8.1
40°-50°	5426.0	14.6
50°-60°	9279.2	25.0
60°-70°	11421.1	30.7
70°-80°	4317.8	11.6
80°-90°	168.7	0.5
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°	37148.6	100.0
0°-180°	37148.6	100.0

Coefficient of Utilization

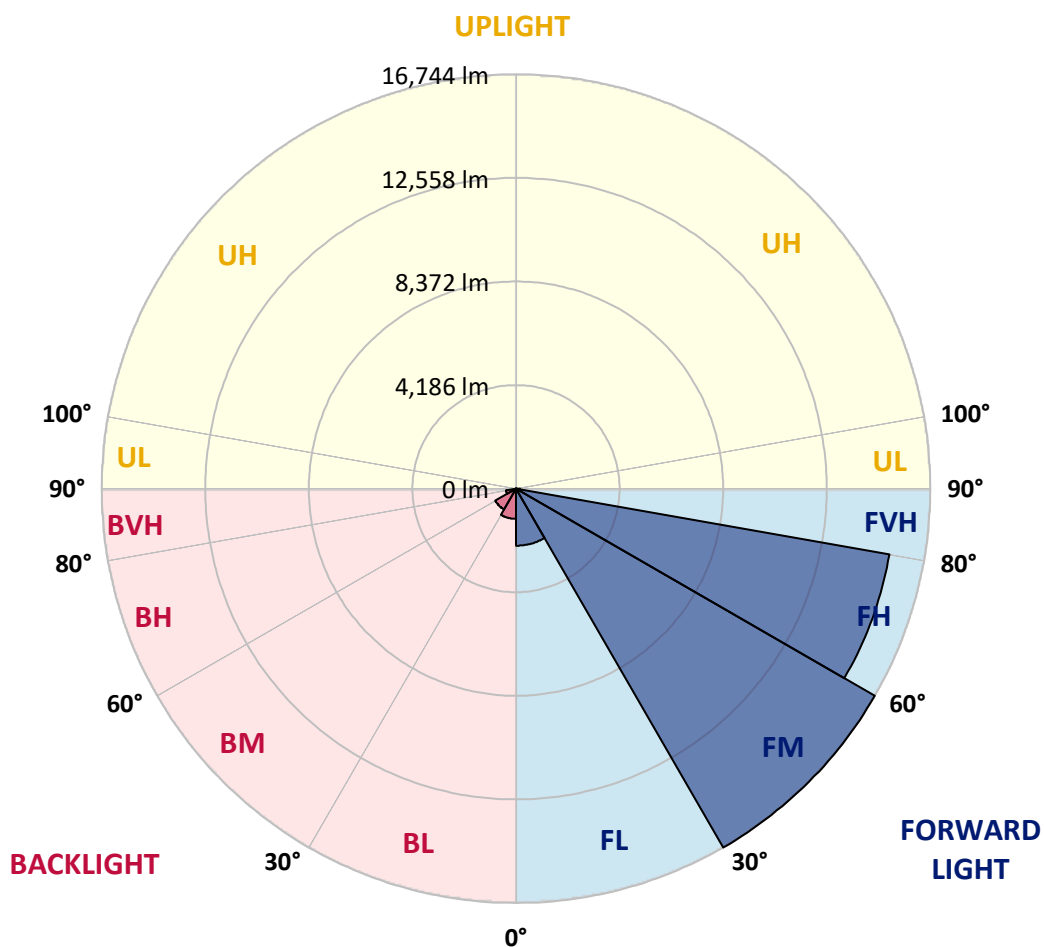


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2306.2	6.2			
FM (30°-60°)	16743.6	45.1			
FH (60°-80°)	15325.1	41.3			G5
FVH (80°-90°)	161.9	0.4			G2/225
BL (0°-30°)	1223.2	3.3	B3/2500		
BM (30°-60°)	968.0	2.6	B1/1000		
BH (60°-80°)	413.8	1.1	B1/500		G1/500
BVH (80°-90°)	6.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0
2.5°	5472.9	5422.4	5472.9	5545.8	5585.1	5618.8	5736.7	5837.7	5944.4	6017.4	5994.9
5°	5074.3	5169.8	5181.0	5203.4	5265.2	5467.3	5534.6	5708.6	5972.4	5994.9	6095.9
7.5°	4760.0	4731.9	4804.9	4950.8	5108.0	5225.9	5422.4	5725.5	6000.5	6095.9	6292.4
10°	4305.3	4361.5	4440.0	4586.0	4776.8	5068.7	5416.7	5753.5	6146.5	6180.1	6545.0
12.5°	4058.3	4002.2	4125.7	4277.3	4602.8	4872.3	5298.9	5703.0	6236.3	6421.5	6842.5
15°	3856.3	3884.3	4002.2	4103.3	4372.7	4715.1	5214.7	5826.5	6387.8	6516.9	7156.8
17.5°	3772.1	3755.2	3845.0	3946.1	4277.3	4664.6	5181.0	5832.1	6522.5	6690.9	7370.1
20°	3811.4	3845.0	3817.0	3912.4	4120.1	4513.0	5231.5	5938.8	6623.6	6853.7	7600.3
22.5°	4428.8	4383.9	4159.4	3979.8	3991.0	4451.3	5192.2	6006.1	6713.4	6898.6	7757.4
25°	6039.8	5798.4	5242.7	4552.3	4097.6	4282.9	5147.3	5983.7	6696.6	6926.7	7852.9
27.5°	7662.0	7454.3	6909.9	5837.7	4529.9	4215.5	4990.1	6000.5	6612.4	6825.7	7695.7
30°	9374.0	9486.3	8678.0	7403.8	5663.7	4586.0	4889.1	5910.7	6556.2	6735.8	7729.4
32.5°	11131.0	11086.1	10597.7	9216.9	7285.9	5405.5	5051.9	6000.5	6629.2	6803.2	7925.8
35°	12506.2	12349.0	11855.1	10609.0	8627.5	6640.4	5613.2	6427.1	6949.1	7156.8	8206.5
37.5°	13185.4	13252.8	12966.5	11883.2	10098.2	7785.5	6314.9	6427.1	7050.2	7291.6	8661.2
40°	13713.1	13915.1	13808.5	13460.5	11557.6	9076.5	7089.5	6825.7	7561.0	8015.7	9514.4
42.5°	14347.3	14251.9	14880.6	14560.6	13466.1	10704.4	8447.9	7774.3	8767.8	9205.7	10794.2
45°	14684.1	15049.0	15526.1	15935.9	15234.2	12736.4	10221.6	9452.6	10614.6	11170.3	12697.1
47.5°	15548.6	15694.5	16469.1	16985.6	16671.2	15060.2	12916.0	11905.6	12938.4	13814.1	14875.0
50°	16053.8	15857.3	16940.6	17726.5	17906.1	16985.6	15329.7	14543.8	15700.1	16817.2	16912.6
52.5°	15610.3	16171.6	17255.0	18663.9	19163.5	18703.2	18164.3	17821.9	18635.8	19668.7	19208.4
55°	14055.5	14437.2	17075.4	19691.1	21302.1	21088.8	21588.4	21363.9	22183.4	23278.0	21891.5
57.5°	12803.7	13280.8	15599.1	20224.4	23294.8	23923.5	24552.2	24411.8	25399.7	26662.7	24164.8
60°	12023.5	12298.5	14532.6	20089.7	24473.6	26853.6	28273.7	27285.8	28896.8	29862.2	25944.2
62.5°	10670.7	10844.7	12977.7	18304.7	24827.2	28924.8	31332.9	29991.3	31389.0	32567.8	27224.0
65°	8554.5	9026.0	10788.6	15632.8	22492.1	29306.5	33241.4	31664.1	33016.9	33791.5	27611.3
66°	7785.5	8127.9	9744.5	14218.2	21161.8	28672.2	32921.4	32012.1	33252.6	33959.9	27016.3
67.5°	6460.8	6758.3	8043.7	12203.1	18439.4	27274.6	33146.0	31776.3	33432.2	33000.0	26219.3
70°	4277.3	4468.1	5500.9	8251.4	12843.0	22312.5	30743.5	29935.2	29390.7	27768.5	20499.4
72.5°	1998.3	2273.3	3435.3	5001.4	7532.9	15610.3	25068.6	23985.2	20611.7	18018.4	12932.8
75°	903.7	1027.2	1886.0	2868.3	3379.1	8088.6	16171.6	14605.6	10260.9	8520.8	5663.7
77.5°	488.3	555.7	920.6	1364.0	1229.3	2834.7	8004.4	6657.3	3233.2	2368.8	1644.7
80°	376.1	443.4	769.0	780.2	454.7	735.3	2975.0	2060.0	808.3	611.8	392.9
82.5°	196.5	280.7	606.2	505.2	230.1	297.5	920.6	572.5	252.6	202.1	168.4
85°	78.6	123.5	342.4	336.8	134.7	101.0	258.2	174.0	101.0	84.2	78.6
87.5°	5.6	5.6	185.2	129.1	84.2	28.1	39.3	39.3	50.5	44.9	56.1
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°	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0
2.5°	6095.9	6163.3	6174.5	6359.8	6399.1	6359.8	6460.8	6444.0	6488.9	6455.2	6393.4
5°	6236.3	6331.7	6516.9	6657.3	6657.3	6545.0	6455.2	6337.3	6163.3	6118.4	6084.7
7.5°	6477.6	6780.7	6949.1	6859.3	6679.7	6258.7	5674.9	5248.3	4889.1	4754.4	4692.6
10°	6904.2	7072.6	7269.1	6904.2	6157.7	5265.2	4282.9	3637.4	3132.2	3019.9	2935.7
12.5°	7179.3	7448.7	7561.0	6657.3	5192.2	3861.9	2795.4	2065.7	1712.0	1442.6	1397.7
15°	7538.5	7847.3	7617.1	5989.3	4092.0	2531.6	1448.2	903.7	735.3	690.4	690.4
17.5°	7785.5	8122.3	7387.0	5158.5	2902.0	1347.2	718.5	623.1	611.8	617.5	606.2
20°	8217.7	8419.8	7039.0	4193.1	1734.5	690.4	578.2	555.7	544.5	561.3	550.1
22.5°	8380.5	8565.7	6472.0	3036.7	780.2	460.3	432.2	415.4	426.6	421.0	415.4
25°	8369.3	8464.7	5540.2	1740.1	230.1	179.6	162.8	162.8	151.6	157.2	151.6
27.5°	8453.5	8217.7	4496.2	516.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	8498.4	7819.2	3199.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	8520.8	7611.5	2060.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	8694.9	7196.1	881.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	8812.7	6662.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	9301.1	6494.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	9935.4	6180.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	10816.6	5714.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	11984.2	5439.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	12854.2	5007.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13960.0	4748.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	15273.5	4760.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	16469.1	4681.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	17081.0	4002.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	16951.9	3238.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16502.8	2542.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	16194.1	2250.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	15256.7	1801.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	12141.4	1234.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7723.8	757.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3558.8	348.0	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1117.0	213.3	44.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	291.9	134.7	44.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	151.6	95.4	39.3	16.8	11.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	95.4	39.3	16.8	11.2	11.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	84.2	22.5	11.2	11.2	5.6	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)