

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: P482908

Luminaire Tested: **IFLD-L-SA8D-750-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482908
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-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

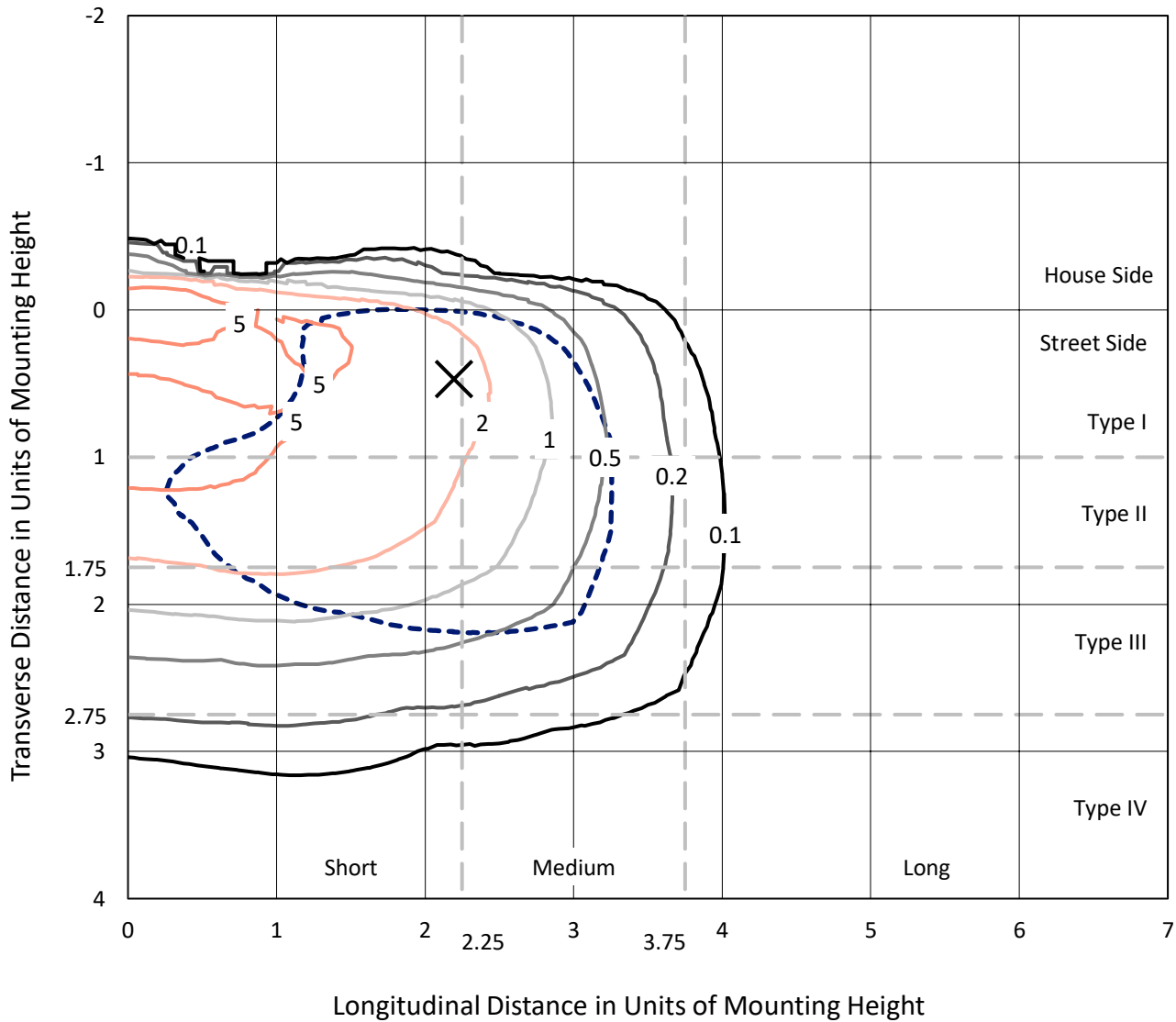
Lumens per Lamp: N/A
Luminaire Lumens: 40876.1 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

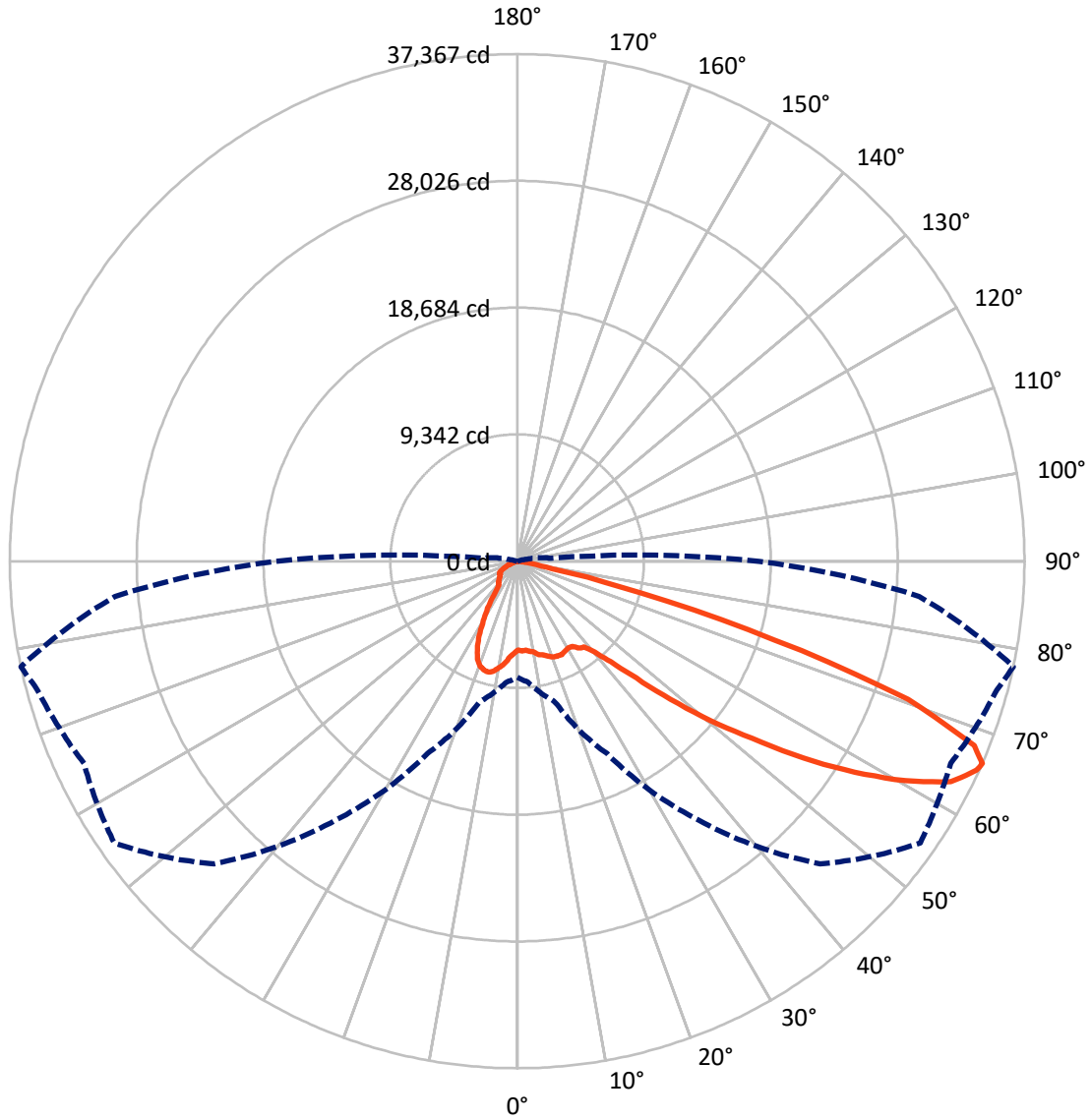
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 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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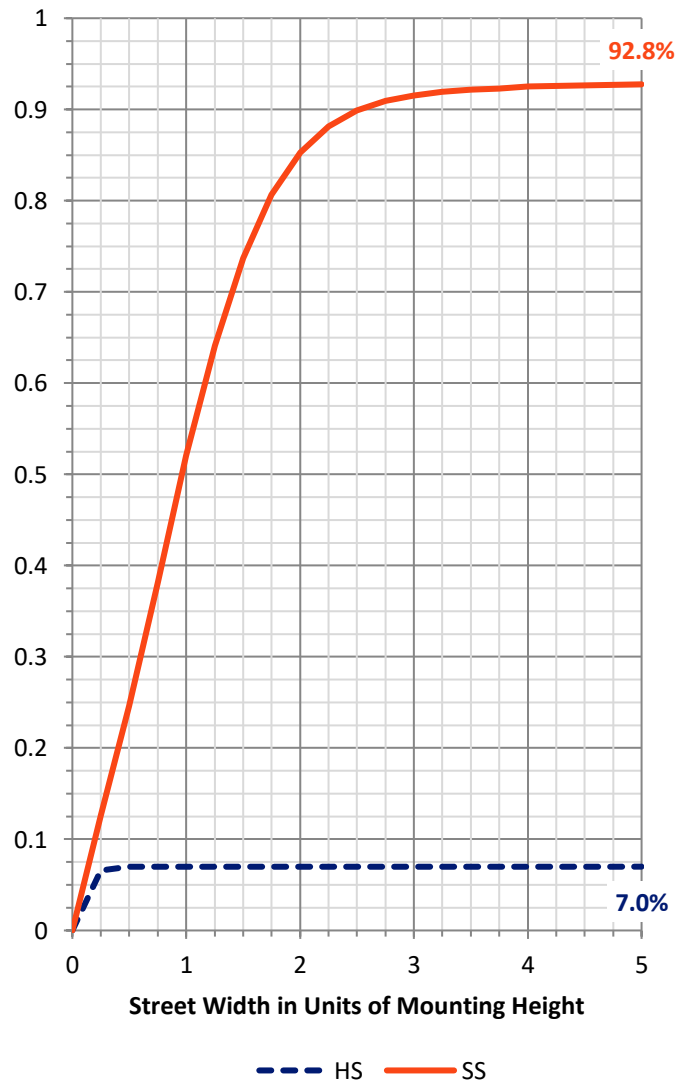
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2873.8	0.0	2873.8
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	38002.3	0.0	38002.3
	% Fixture	93.0	0.0	93.0
Total	Lumens	40876.1	0.0	40876.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.9	1.5
10°-20°	1352.1	3.3
20°-30°	1932.5	4.7
30°-40°	3308.0	8.1
40°-50°	5970.5	14.6
50°-60°	10210.3	25.0
60°-70°	12567.1	30.7
70°-80°	4751.1	11.6
80°-90°	185.6	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°	40876.1	100.0
0°-180°	40876.1	100.0

Coefficient of Utilization



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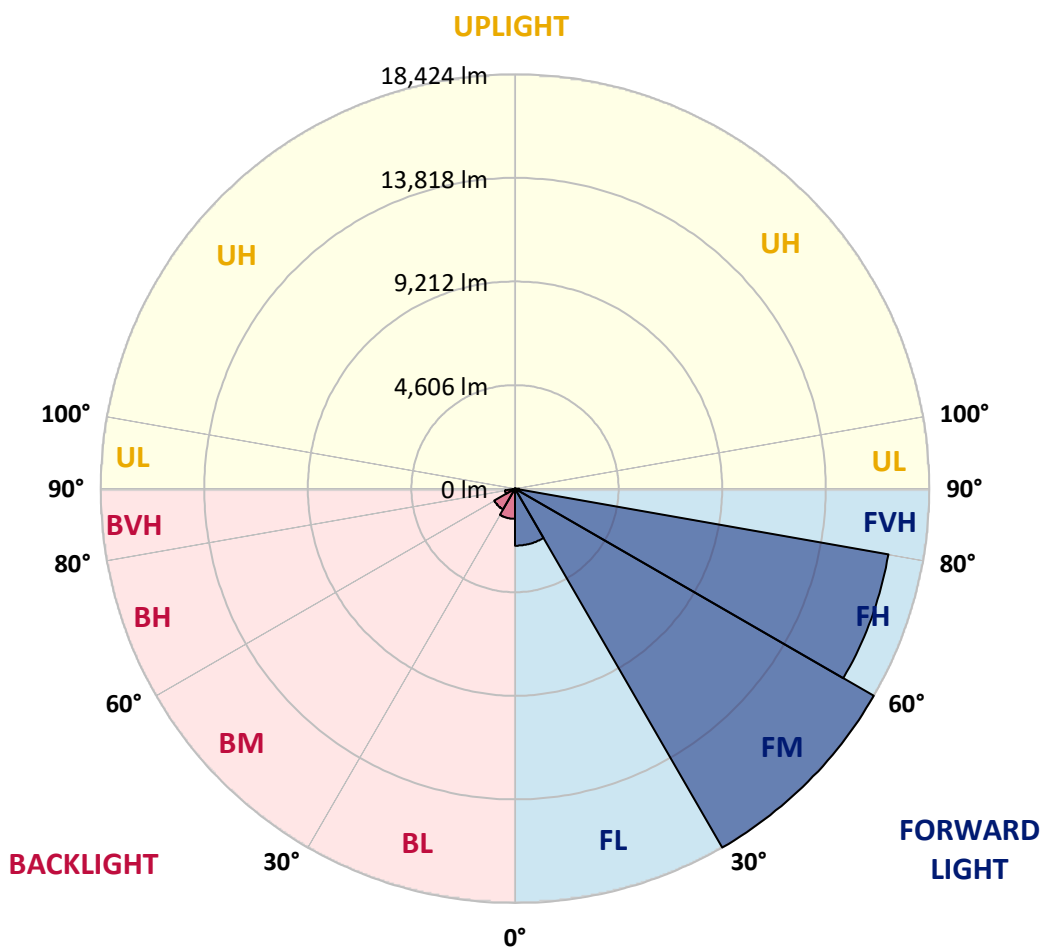
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2537.6	6.2			
FM (30°-60°)	18423.7	45.1			
FH (60°-80°)	16862.9	41.3			G5
FVH (80°-90°)	178.1	0.4			G2/225
BL (0°-30°)	1345.9	3.3	B3/2500		
BM (30°-60°)	1065.1	2.6	B2/2500		
BH (60°-80°)	455.3	1.1	B1/500		G1/500
BVH (80°-90°)	7.4	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°	6547.0	6547.0	6547.0	6547.0	6547.0	6547.0	6547.0	6547.0	6547.0	6547.0	6547.0
2.5°	6022.0	5966.4	6022.0	6102.3	6145.6	6182.6	6312.3	6423.5	6540.8	6621.1	6596.4
5°	5583.5	5688.5	5700.9	5725.6	5793.5	6015.9	6090.0	6281.4	6571.7	6596.4	6707.6
7.5°	5237.6	5206.7	5287.0	5447.6	5620.6	5750.3	5966.4	6300.0	6602.6	6707.6	6923.8
10°	4737.3	4799.1	4885.6	5046.1	5256.1	5577.3	5960.3	6330.8	6763.2	6800.3	7201.7
12.5°	4465.6	4403.8	4539.7	4706.4	5064.7	5361.1	5830.6	6275.3	6862.0	7065.8	7529.1
15°	4243.2	4274.1	4403.8	4515.0	4811.4	5188.2	5737.9	6411.1	7028.8	7170.8	7875.0
17.5°	4150.6	4132.0	4230.9	4342.0	4706.4	5132.6	5700.9	6417.3	7177.0	7362.3	8109.7
20°	4193.8	4230.9	4200.0	4305.0	4533.5	4965.9	5756.4	6534.7	7288.2	7541.4	8362.9
22.5°	4873.2	4823.8	4576.7	4379.1	4391.4	4897.9	5713.2	6608.8	7387.0	7590.8	8535.8
25°	6645.8	6380.3	5768.8	5009.1	4508.8	4712.6	5663.8	6584.1	7368.5	7621.7	8640.8
27.5°	8430.8	8202.3	7603.2	6423.5	4984.4	4638.5	5490.9	6602.6	7275.8	7510.5	8467.9
30°	10314.7	10438.2	9548.8	8146.7	6232.0	5046.1	5379.7	6503.8	7214.1	7411.7	8505.0
32.5°	12247.9	12198.5	11661.1	10141.7	8017.0	5947.9	5558.8	6602.6	7294.4	7485.8	8721.1
35°	13761.1	13588.2	13044.6	11673.5	9493.2	7306.7	6176.4	7072.0	7646.4	7875.0	9030.0
37.5°	14508.5	14582.6	14267.6	13075.5	11111.4	8566.7	6948.5	7072.0	7757.6	8023.2	9530.2
40°	15089.0	15311.4	15194.0	14811.1	12717.3	9987.3	7800.8	7510.5	8319.7	8820.0	10469.1
42.5°	15787.0	15682.0	16373.7	16021.7	14817.3	11778.5	9295.5	8554.4	9647.6	10129.4	11877.3
45°	16157.6	16559.0	17084.0	17534.9	16762.9	14014.3	11247.3	10401.1	11679.6	12291.1	13971.1
47.5°	17108.7	17269.3	18121.7	18689.9	18344.0	16571.4	14212.0	13100.2	14236.7	15200.2	16367.6
50°	17664.6	17448.4	18640.5	19505.2	19702.8	18689.9	16867.9	16003.1	17275.5	18504.6	18609.6
52.5°	17176.7	17794.3	18986.4	20536.7	21086.4	20579.9	19987.0	19610.2	20505.8	21642.2	21135.8
55°	15465.8	15885.8	18788.7	21666.9	23439.6	23204.9	23754.6	23507.5	24409.3	25613.7	24088.1
57.5°	14088.5	14613.5	17164.3	22253.7	25632.2	26324.0	27015.7	26861.3	27948.4	29338.1	26589.6
60°	13229.9	13532.6	15990.8	22105.5	26929.3	29548.1	31110.7	30023.7	31796.3	32858.6	28547.5
62.5°	11741.4	11932.9	14279.9	20141.4	27318.4	31827.2	34476.9	33000.7	34538.6	35835.7	29955.7
65°	9412.9	9931.7	11871.1	17201.4	24749.0	32247.2	36576.9	34841.3	36329.8	37182.2	30381.9
66°	8566.7	8943.5	10722.3	15644.9	23285.2	31549.2	36224.8	35224.2	36589.2	37367.4	29727.2
67.5°	7109.1	7436.4	8850.8	13427.6	20289.6	30011.3	36471.9	34964.8	36786.9	36311.3	28850.1
70°	4706.4	4916.4	6052.9	9079.4	14131.7	24551.3	33828.3	32938.9	32339.8	30554.8	22556.3
72.5°	2198.8	2501.5	3780.0	5503.2	8288.8	17176.7	27584.0	26391.9	22679.9	19826.4	14230.5
75°	994.4	1130.3	2075.3	3156.2	3718.2	8900.2	17794.3	16071.1	11290.5	9375.8	6232.0
77.5°	537.4	611.5	1012.9	1500.9	1352.6	3119.1	8807.6	7325.3	3557.6	2606.5	1809.7
80°	413.8	487.9	846.2	858.5	500.3	809.1	3273.5	2266.8	889.4	673.2	432.4
82.5°	216.2	308.8	667.1	555.9	253.2	327.4	1012.9	630.0	277.9	222.4	185.3
85°	86.5	135.9	376.8	370.6	148.2	111.2	284.1	191.5	111.2	92.6	86.5
87.5°	6.2	6.2	203.8	142.1	92.6	30.9	43.2	43.2	55.6	49.4	61.8
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°	6547.0	6547.0	6547.0	6547.0	6547.0	6547.0	6547.0	6547.0	6547.0	6547.0	6547.0
2.5°	6707.6	6781.7	6794.1	6997.9	7041.1	6997.9	7109.1	7090.6	7140.0	7102.9	7035.0
5°	6862.0	6967.0	7170.8	7325.3	7325.3	7201.7	7102.9	6973.2	6781.7	6732.3	6695.3
7.5°	7127.6	7461.1	7646.4	7547.6	7350.0	6886.7	6244.4	5775.0	5379.7	5231.4	5163.5
10°	7597.0	7782.3	7998.5	7597.0	6775.6	5793.5	4712.6	4002.3	3446.5	3322.9	3230.3
12.5°	7899.7	8196.1	8319.7	7325.3	5713.2	4249.4	3075.9	2272.9	1883.8	1587.3	1537.9
15°	8295.0	8634.7	8381.4	6590.3	4502.6	2785.6	1593.5	994.4	809.1	759.7	759.7
17.5°	8566.7	8937.3	8128.2	5676.1	3193.2	1482.3	790.6	685.6	673.2	679.4	667.1
20°	9042.3	9264.7	7745.3	4613.8	1908.5	759.7	636.2	611.5	599.1	617.6	605.3
22.5°	9221.4	9425.2	7121.4	3341.5	858.5	506.5	475.6	457.1	469.4	463.2	457.1
25°	9209.1	9314.1	6096.1	1914.7	253.2	197.6	179.1	179.1	166.8	172.9	166.8
27.5°	9301.7	9042.3	4947.3	568.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	9351.1	8603.8	3520.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	9375.8	8375.2	2266.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	9567.3	7918.2	969.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	9697.0	7331.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	10234.4	7146.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	10932.3	6800.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	11902.0	6287.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	13186.7	5985.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	14144.0	5509.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	15360.8	5225.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	16806.1	5237.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	18121.7	5151.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	18794.9	4403.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	18652.8	3563.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	18158.7	2797.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	17819.0	2476.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	16787.6	1982.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	13359.6	1358.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8498.8	833.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3915.9	382.9	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1229.1	234.7	49.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	321.2	148.2	49.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	166.8	105.0	43.2	18.5	12.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	105.0	43.2	18.5	12.4	12.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	92.6	24.7	12.4	12.4	6.2	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)