

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: P482830

Luminaire Tested: **IFLD-L-SA8D-735-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482830
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-735-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

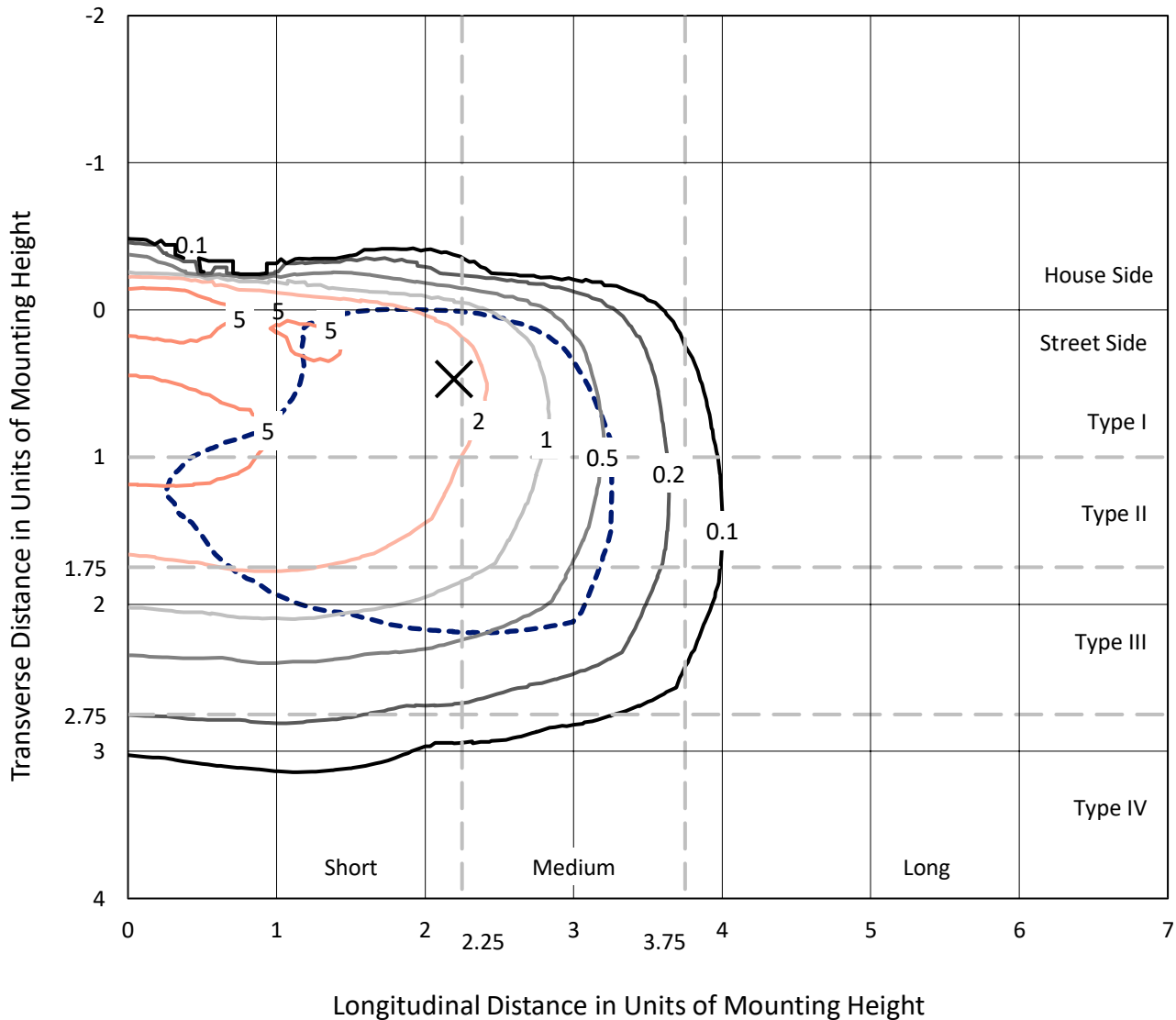
Lumens per Lamp: N/A
Luminaire Lumens: 39413.5 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

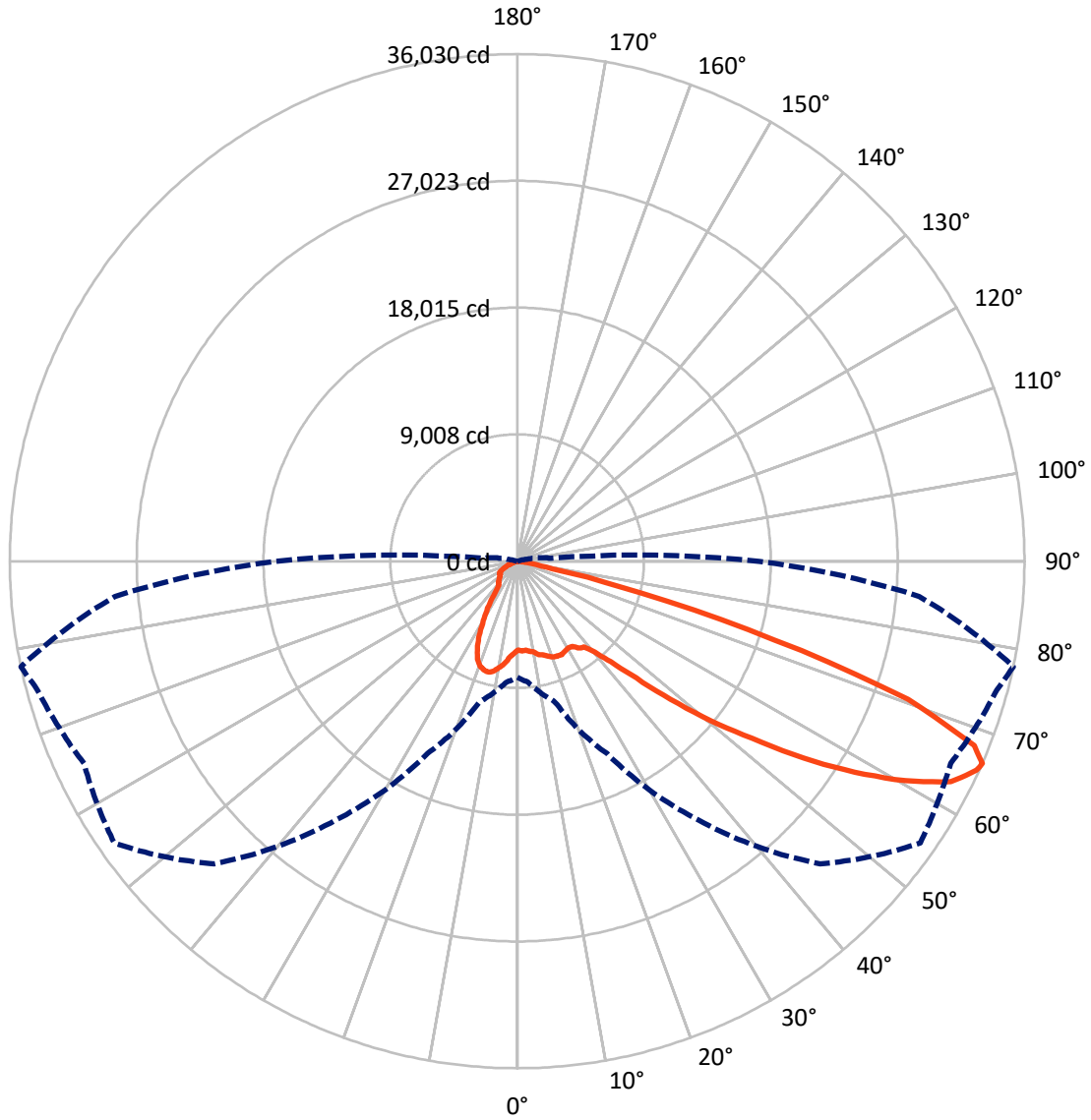
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 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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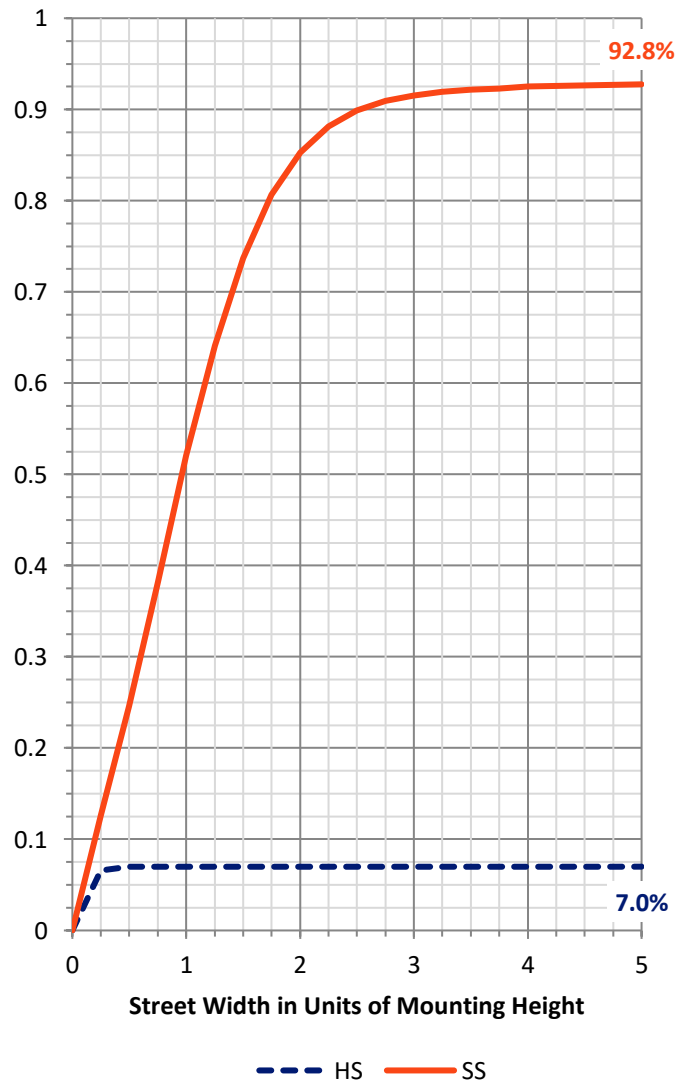
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2770.9	0.0	2770.9
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	36642.6	0.0	36642.6
	% Fixture	93.0	0.0	93.0
Total	Lumens	39413.5	0.0	39413.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.5	1.5
10°-20°	1303.7	3.3
20°-30°	1863.4	4.7
30°-40°	3189.6	8.1
40°-50°	5756.9	14.6
50°-60°	9845.0	25.0
60°-70°	12117.5	30.7
70°-80°	4581.1	11.6
80°-90°	178.9	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°	39413.5	100.0
0°-180°	39413.5	100.0

Coefficient of Utilization

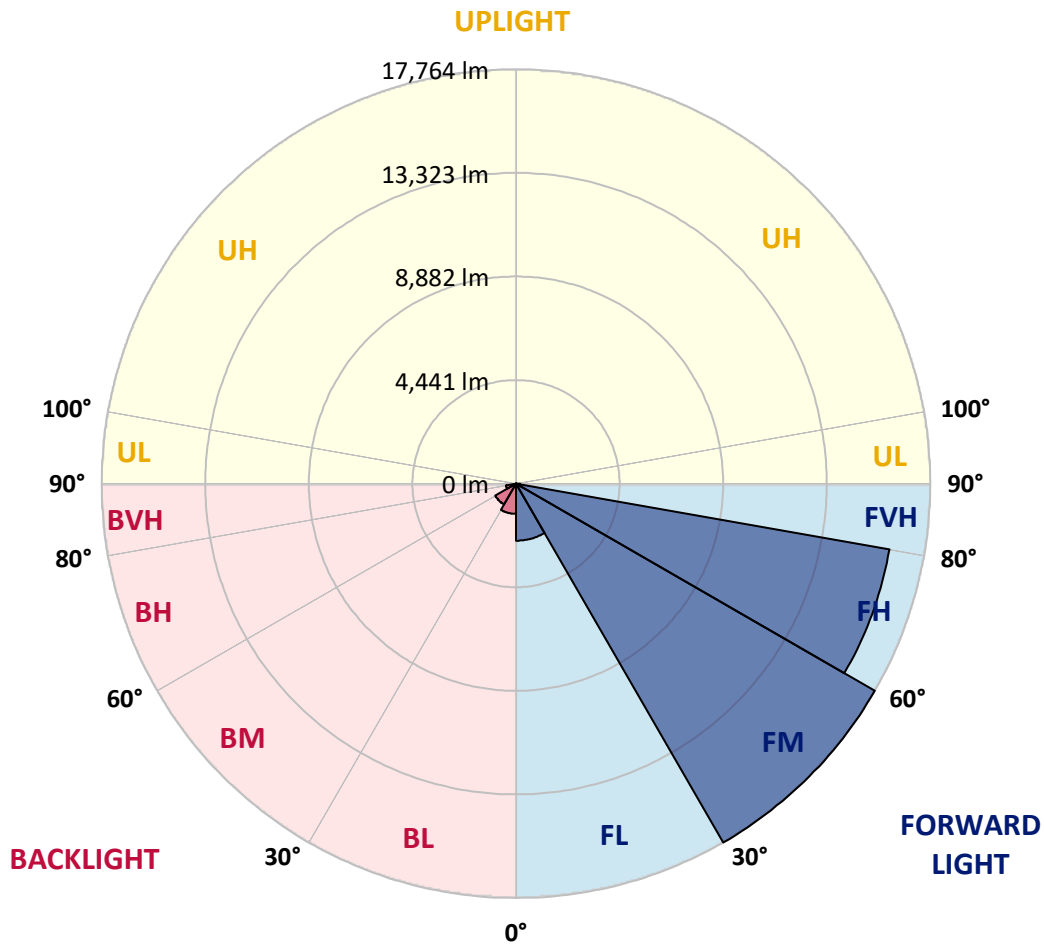


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2446.8	6.2			
FM (30°-60°)	17764.5	45.1			
FH (60°-80°)	16259.5	41.3			G5
FVH (80°-90°)	171.8	0.4			G2/225
BL (0°-30°)	1297.8	3.3	B3/2500		
BM (30°-60°)	1027.0	2.6	B2/2500		
BH (60°-80°)	439.0	1.1	B1/500		G1/500
BVH (80°-90°)	7.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	6312.8	6312.8	6312.8	6312.8	6312.8	6312.8	6312.8	6312.8	6312.8	6312.8	6312.8
2.5°	5806.6	5753.0	5806.6	5884.0	5925.7	5961.4	6086.5	6193.7	6306.8	6384.2	6360.4
5°	5383.7	5485.0	5496.9	5520.7	5586.2	5800.6	5872.1	6056.7	6336.6	6360.4	6467.6
7.5°	5050.2	5020.4	5097.9	5252.7	5419.5	5544.5	5753.0	6074.5	6366.4	6467.6	6676.0
10°	4567.8	4627.4	4710.8	4865.6	5068.1	5377.8	5747.0	6104.3	6521.2	6556.9	6944.0
12.5°	4305.8	4246.2	4377.2	4538.0	4883.5	5169.3	5621.9	6050.7	6616.5	6813.0	7259.7
15°	4091.4	4121.2	4246.2	4353.4	4639.3	5002.6	5532.6	6181.7	6777.3	6914.3	7593.2
17.5°	4002.1	3984.2	4079.5	4186.7	4538.0	4949.0	5496.9	6187.7	6920.2	7098.9	7819.5
20°	4043.7	4079.5	4049.7	4150.9	4371.3	4788.2	5550.5	6300.9	7027.4	7271.6	8063.7
22.5°	4698.8	4651.2	4413.0	4222.4	4234.3	4722.7	5508.8	6372.3	7122.7	7319.2	8230.4
25°	6408.1	6152.0	5562.4	4829.9	4347.5	4544.0	5461.1	6348.5	7104.8	7349.0	8331.7
27.5°	8129.2	7908.8	7331.1	6193.7	4806.0	4472.5	5294.4	6366.4	7015.5	7241.8	8164.9
30°	9945.6	10064.7	9207.1	7855.2	6009.0	4865.6	5187.2	6271.1	6956.0	7146.5	8200.6
32.5°	11809.6	11762.0	11243.9	9778.8	7730.2	5735.1	5359.9	6366.4	7033.4	7218.0	8409.1
35°	13268.7	13102.0	12577.9	11255.8	9153.5	7045.3	5955.4	6819.0	7372.8	7593.2	8706.9
37.5°	13989.3	14060.8	13757.1	12607.7	10713.8	8260.2	6699.9	6819.0	7480.0	7736.1	9189.2
40°	14549.1	14763.5	14650.4	14281.1	12262.3	9629.9	7521.7	7241.8	8022.0	8504.4	10094.5
42.5°	15222.1	15120.9	15787.9	15448.4	14287.1	11357.0	8962.9	8248.3	9302.4	9766.9	11452.3
45°	15579.4	15966.5	16472.7	16907.5	16163.1	13512.9	10844.9	10029.0	11261.7	11851.3	13471.2
47.5°	16496.6	16651.4	17473.3	18021.2	17687.7	15978.4	13703.5	12631.5	13727.3	14656.3	15781.9
50°	17032.6	16824.1	17973.5	18807.3	18997.9	18021.2	16264.3	15430.5	16657.4	17842.5	17943.7
52.5°	16562.1	17157.6	18307.0	19801.8	20331.9	19843.5	19271.8	18908.5	19772.1	20867.9	20379.5
55°	14912.4	15317.4	18116.5	20891.7	22600.9	22374.6	22904.6	22666.4	23535.9	24697.2	23226.2
57.5°	13584.4	14090.6	16550.2	21457.5	24715.1	25382.1	26049.1	25900.2	26948.4	28288.3	25638.2
60°	12756.6	13048.4	15418.6	21314.5	25965.7	28490.8	29997.6	28949.4	30658.6	31682.9	27526.0
62.5°	11321.3	11505.9	13769.0	19420.7	26340.9	30688.4	33243.3	31819.9	33302.8	34553.5	28883.9
65°	9076.1	9576.3	11446.4	16585.9	23863.5	31093.4	35268.1	33594.6	35029.9	35851.8	29294.8
66°	8260.2	8623.5	10338.6	15085.1	22452.0	30420.4	34928.7	33963.9	35280.0	36030.4	28663.5
67.5°	6854.7	7170.4	8534.1	12947.1	19563.6	28937.5	35166.9	33713.8	35470.6	35012.0	27817.9
70°	4538.0	4740.5	5836.3	8754.5	13626.0	23672.9	32617.9	31760.4	31182.7	29461.6	21749.3
72.5°	2120.1	2412.0	3644.7	5306.3	7992.2	16562.1	26597.0	25447.6	21868.4	19117.0	13721.3
75°	958.8	1089.8	2001.0	3043.2	3585.2	8581.8	17157.6	15496.1	10886.5	9040.4	6009.0
77.5°	518.1	589.6	976.7	1447.2	1304.2	3007.5	8492.5	7063.2	3430.3	2513.2	1744.9
80°	399.0	470.5	815.9	827.8	482.4	780.2	3156.4	2185.6	857.6	649.1	416.9
82.5°	208.4	297.8	643.2	536.0	244.2	315.6	976.7	607.5	268.0	214.4	178.7
85°	83.4	131.0	363.3	357.3	142.9	107.2	274.0	184.6	107.2	89.3	83.4
87.5°	6.0	6.0	196.5	137.0	89.3	29.8	41.7	41.7	53.6	47.6	59.6
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°	6312.8	6312.8	6312.8	6312.8	6312.8	6312.8	6312.8	6312.8	6312.8	6312.8	6312.8
2.5°	6467.6	6539.1	6551.0	6747.5	6789.2	6747.5	6854.7	6836.8	6884.5	6848.8	6783.2
5°	6616.5	6717.7	6914.3	7063.2	7063.2	6944.0	6848.8	6723.7	6539.1	6491.4	6455.7
7.5°	6872.6	7194.2	7372.8	7277.5	7087.0	6640.3	6021.0	5568.3	5187.2	5044.3	4978.7
10°	7325.2	7503.9	7712.3	7325.2	6533.1	5586.2	4544.0	3859.1	3323.1	3204.0	3114.7
12.5°	7617.0	7902.9	8022.0	7063.2	5508.8	4097.3	2965.8	2191.6	1816.4	1530.5	1482.9
15°	7998.2	8325.7	8081.5	6354.5	4341.5	2685.9	1536.5	958.8	780.2	732.5	732.5
17.5°	8260.2	8617.5	7837.4	5473.1	3079.0	1429.3	762.3	661.1	649.1	655.1	643.2
20°	8718.8	8933.2	7468.1	4448.7	1840.2	732.5	613.4	589.6	577.7	595.5	583.6
22.5°	8891.5	9088.0	6866.6	3221.9	827.8	488.3	458.6	440.7	452.6	446.7	440.7
25°	8879.6	8980.8	5878.0	1846.2	244.2	190.6	172.7	172.7	160.8	166.8	160.8
27.5°	8968.9	8718.8	4770.3	547.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	9016.5	8295.9	3394.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	9040.4	8075.6	2185.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	9225.0	7634.9	935.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	9350.0	7069.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	9868.2	6890.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	10541.1	6556.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	11476.1	6062.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	12714.9	5770.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	13638.0	5312.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	14811.2	5038.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	16204.8	5050.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	17473.3	4966.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	18122.4	4246.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	17985.4	3436.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	17509.0	2697.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	17181.4	2388.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	16186.9	1911.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	12881.6	1310.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8194.7	804.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3775.7	369.2	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1185.1	226.3	47.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	309.7	142.9	47.6	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	160.8	101.2	41.7	17.9	11.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	101.2	41.7	17.9	11.9	11.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	89.3	23.8	11.9	11.9	6.0	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)