

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: P482752

Luminaire Tested: **IFLD-L-SA8D-727-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482752
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-727-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

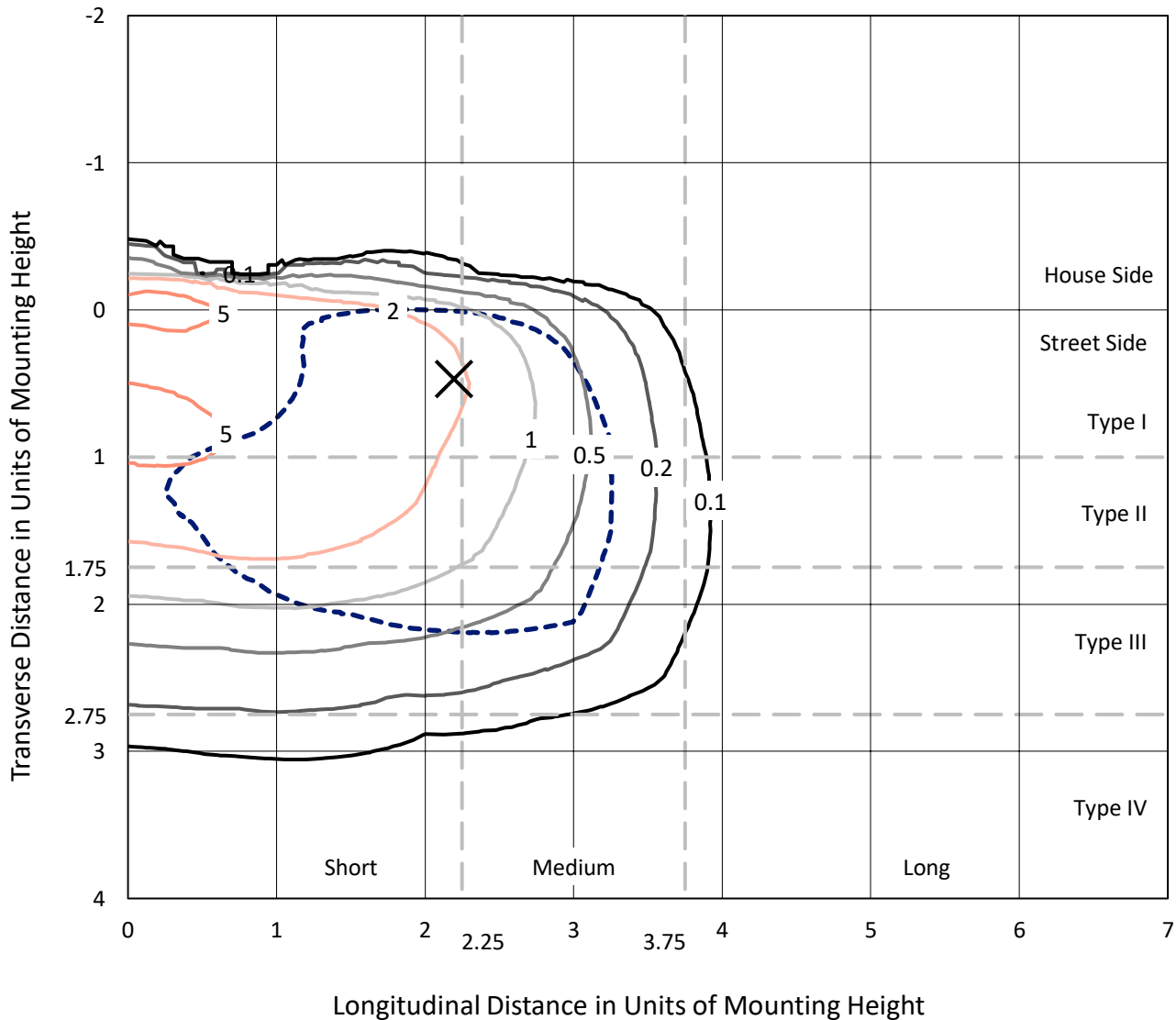
Lumens per Lamp: N/A
Luminaire Lumens: 33419.4 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

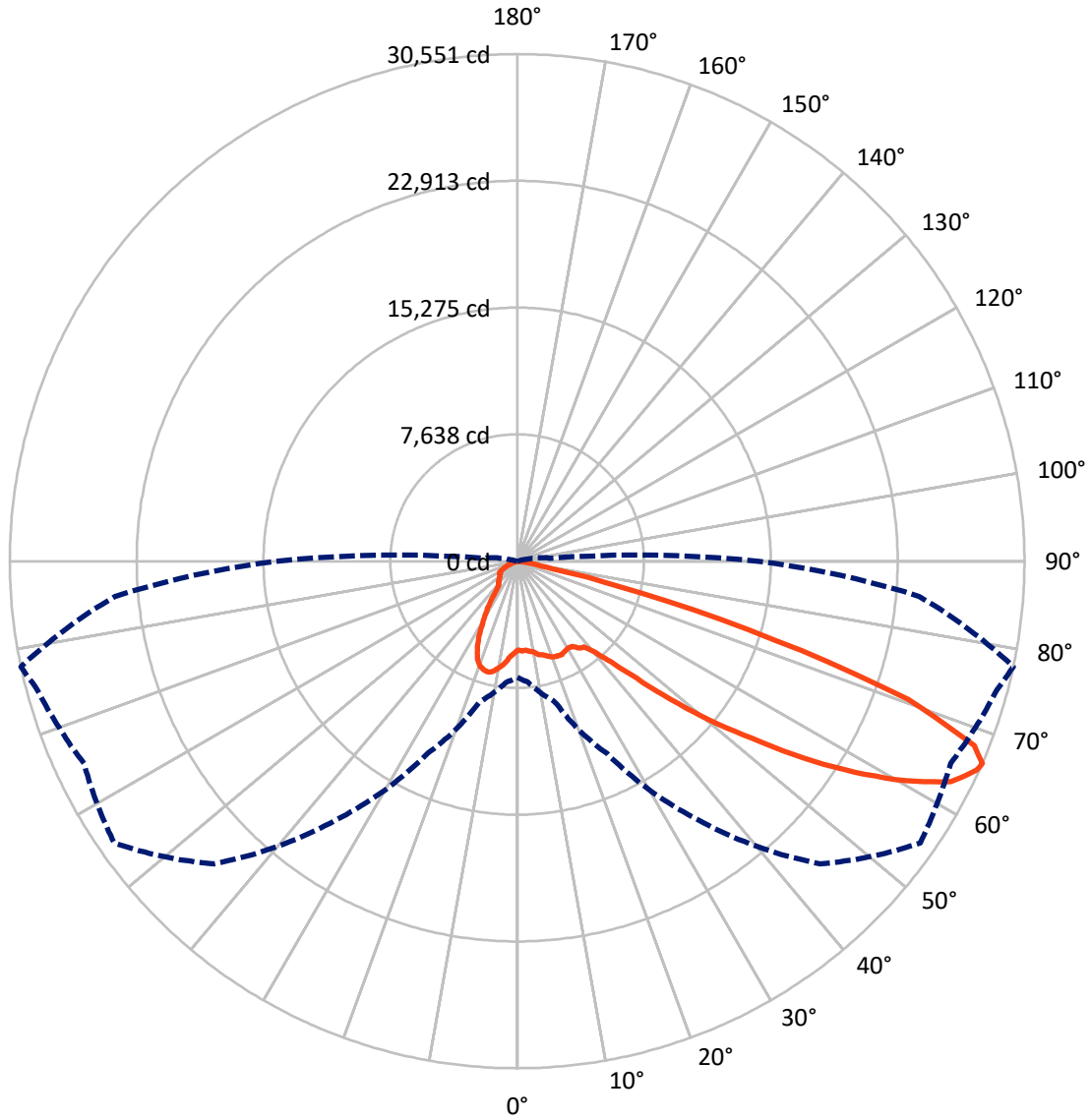
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 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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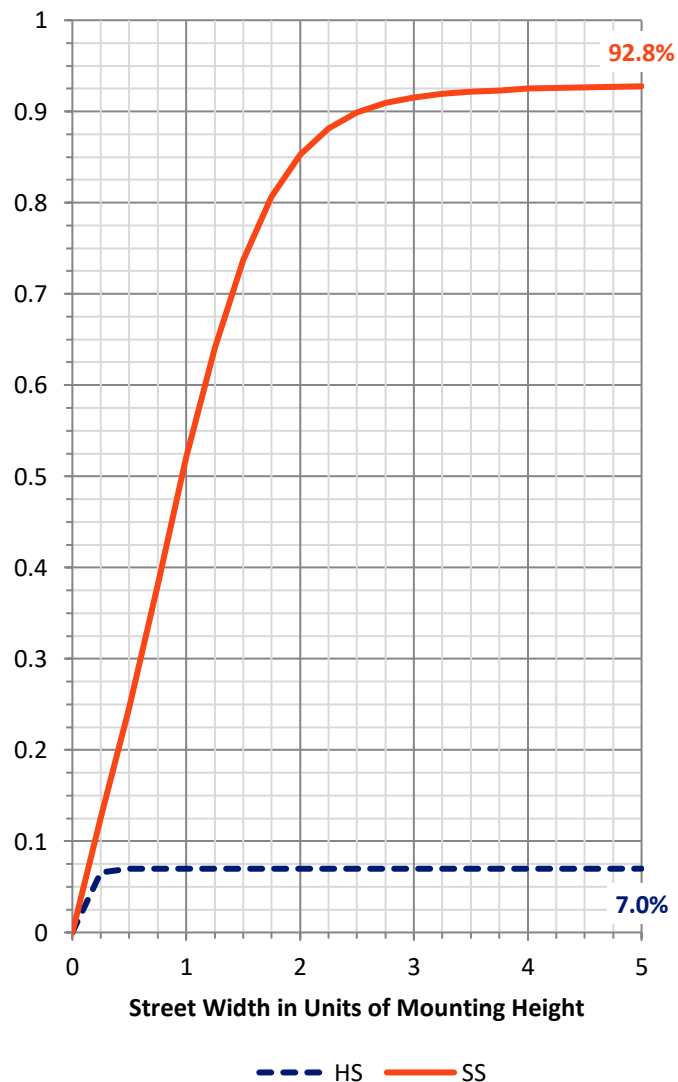
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2349.5	0.0	2349.5
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	31069.8	0.0	31069.8
	% Fixture	93.0	0.0	93.0
Total	Lumens	33419.4	0.0	33419.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.7	1.5
10°-20°	1105.4	3.3
20°-30°	1580.0	4.7
30°-40°	2704.5	8.1
40°-50°	4881.3	14.6
50°-60°	8347.7	25.0
60°-70°	10274.6	30.7
70°-80°	3884.4	11.6
80°-90°	151.7	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°	33419.4	100.0
0°-180°	33419.4	100.0

Coefficient of Utilization

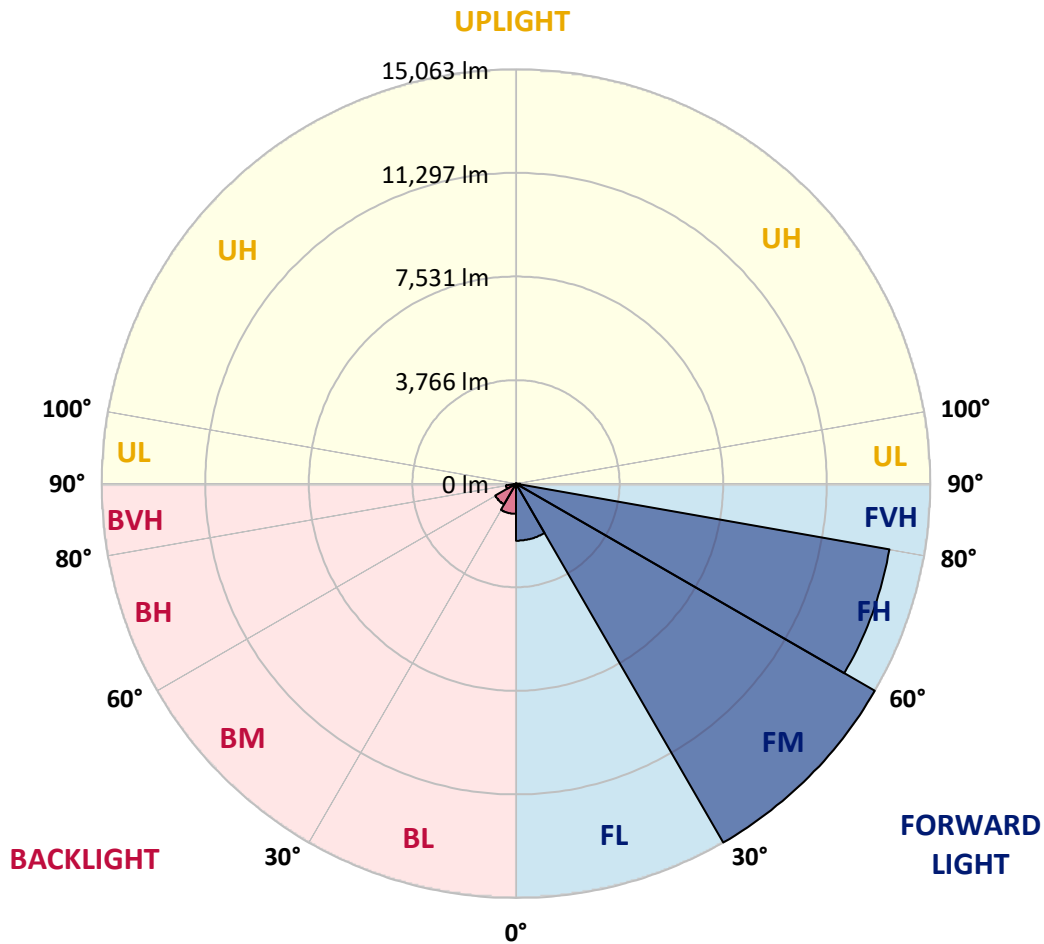


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2074.7	6.2			
FM (30°-60°)	15062.8	45.1			
FH (60°-80°)	13786.7	41.3			G5
FVH (80°-90°)	145.6	0.4			G2/225
BL (0°-30°)	1100.4	3.3	B3/2500		
BM (30°-60°)	870.8	2.6	B1/1000		
BH (60°-80°)	372.2	1.1	B1/500		G1/500
BVH (80°-90°)	6.1	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°	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7
2.5°	4923.5	4878.0	4923.5	4989.1	5024.5	5054.8	5160.8	5251.7	5347.6	5413.3	5393.1
5°	4564.9	4650.8	4660.9	4681.1	4736.6	4918.4	4979.0	5135.6	5372.9	5393.1	5484.0
7.5°	4282.2	4256.9	4322.6	4453.8	4595.2	4701.3	4878.0	5150.7	5398.1	5484.0	5660.7
10°	3873.1	3923.6	3994.3	4125.6	4297.3	4559.9	4873.0	5176.0	5529.4	5559.7	5888.0
12.5°	3650.9	3600.4	3711.5	3847.9	4140.8	4383.2	4766.9	5130.5	5610.2	5776.9	6155.6
15°	3469.2	3494.4	3600.4	3691.3	3933.7	4241.8	4691.2	5241.6	5746.6	5862.7	6438.4
17.5°	3393.4	3378.3	3459.1	3550.0	3847.9	4196.3	4660.9	5246.7	5867.8	6019.3	6630.3
20°	3428.8	3459.1	3433.8	3519.7	3706.5	4060.0	4706.3	5342.6	5958.7	6165.7	6837.3
22.5°	3984.2	3943.8	3741.8	3580.2	3590.3	4004.4	4671.0	5403.2	6039.5	6206.1	6978.7
25°	5433.5	5216.4	4716.4	4095.3	3686.3	3852.9	4630.6	5383.0	6024.3	6231.3	7064.6
27.5°	6892.9	6706.0	6216.2	5251.7	4075.1	3792.3	4489.2	5398.1	5948.6	6140.5	6923.2
30°	8433.0	8534.0	7806.9	6660.6	5095.2	4125.6	4398.3	5317.4	5898.1	6059.7	6953.5
32.5°	10013.6	9973.2	9533.9	8291.6	6554.5	4862.9	4544.7	5398.1	5963.7	6120.3	7130.2
35°	11250.8	11109.4	10665.0	9544.0	7761.4	5973.8	5049.7	5781.9	6251.5	6438.4	7382.7
37.5°	11861.8	11922.4	11664.8	10690.2	9084.4	7004.0	5680.9	5781.9	6342.4	6559.6	7791.7
40°	12336.5	12518.2	12422.3	12109.2	10397.4	8165.4	6377.8	6140.5	6802.0	7211.0	8559.3
42.5°	12907.1	12821.2	13386.8	13099.0	12114.3	9629.8	7599.8	6993.9	7887.7	8281.5	9710.6
45°	13210.1	13538.3	13967.5	14336.1	13704.9	11457.8	9195.5	8503.7	9549.0	10048.9	11422.5
47.5°	13987.7	14119.0	14815.9	15280.4	14997.7	13548.4	11619.4	10710.4	11639.6	12427.4	13381.7
50°	14442.2	14265.4	15240.0	15947.0	16108.6	15280.4	13790.8	13083.8	14124.1	15128.9	15214.8
52.5°	14043.3	14548.2	15522.8	16790.3	17239.7	16825.7	16340.9	16032.8	16765.1	17694.2	17280.1
55°	12644.5	12987.9	15361.2	17714.4	19163.7	18971.8	19421.2	19219.2	19956.5	20941.2	19693.9
57.5°	11518.4	11947.6	14033.2	18194.1	20956.3	21521.9	22087.5	21961.2	22850.0	23986.2	21739.0
60°	10816.5	11063.9	13073.7	18072.9	22016.8	24157.8	25435.4	24546.7	25995.9	26864.5	23339.8
62.5°	9599.5	9756.1	11674.9	16467.1	22334.9	26021.2	28187.5	26980.6	28238.0	29298.5	24491.1
65°	7695.8	8119.9	9705.6	14063.5	20234.2	26364.6	29904.4	28485.4	29702.4	30399.3	24839.6
66°	7004.0	7312.0	8766.3	12790.9	19037.4	25794.0	29616.6	28798.5	29914.5	30550.8	24304.3
67.5°	5812.2	6079.9	7236.2	10978.1	16588.3	24536.6	29818.6	28586.4	30076.1	29687.3	23587.2
70°	3847.9	4019.6	4948.7	7423.1	11553.8	20072.6	27657.3	26930.1	26440.3	24980.9	18441.6
72.5°	1797.7	2045.1	3090.4	4499.3	6776.7	14043.3	22552.0	21577.4	18542.6	16209.6	11634.5
75°	813.0	924.1	1696.7	2580.4	3039.9	7276.6	14548.2	13139.4	9230.9	7665.5	5095.2
77.5°	439.3	499.9	828.2	1227.1	1105.9	2550.1	7200.9	5989.0	2908.6	2131.0	1479.6
80°	338.3	398.9	691.8	701.9	409.0	661.5	2676.3	1853.2	727.2	550.4	353.5
82.5°	176.7	252.5	545.4	454.5	207.0	267.6	828.2	515.1	227.2	181.8	151.5
85°	70.7	111.1	308.0	303.0	121.2	90.9	232.3	156.5	90.9	75.7	70.7
87.5°	5.0	5.0	166.6	116.1	75.7	25.2	35.3	35.3	45.4	40.4	50.5
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°	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7	5352.7
2.5°	5484.0	5544.6	5554.7	5721.3	5756.7	5721.3	5812.2	5797.1	5837.5	5807.2	5751.6
5°	5610.2	5696.1	5862.7	5989.0	5989.0	5888.0	5807.2	5701.1	5544.6	5504.2	5473.9
7.5°	5827.4	6100.1	6251.5	6170.8	6009.2	5630.4	5105.3	4721.5	4398.3	4277.1	4221.6
10°	6211.2	6362.6	6539.4	6211.2	5539.5	4736.6	3852.9	3272.2	2817.7	2716.7	2641.0
12.5°	6458.6	6701.0	6802.0	5989.0	4671.0	3474.2	2514.8	1858.3	1540.2	1297.8	1257.4
15°	6781.8	7059.5	6852.5	5388.0	3681.2	2277.4	1302.8	813.0	661.5	621.1	621.1
17.5°	7004.0	7306.9	6645.4	4640.7	2610.7	1211.9	646.4	560.5	550.4	555.5	545.4
20°	7392.8	7574.6	6332.3	3772.1	1560.4	621.1	520.1	499.9	489.8	505.0	494.9
22.5°	7539.2	7705.9	5822.3	2731.9	701.9	414.1	388.8	373.7	383.8	378.7	373.7
25°	7529.1	7615.0	4984.1	1565.4	207.0	161.6	146.4	146.4	136.3	141.4	136.3
27.5°	7604.9	7392.8	4044.8	464.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	7645.3	7034.3	2878.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	7665.5	6847.4	1853.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	7822.0	6473.7	792.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7928.1	5994.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8367.4	5842.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8938.0	5559.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9730.8	5140.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	10781.1	4893.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	11563.9	4504.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12558.6	4272.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13740.3	4282.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	14815.9	4211.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	15366.3	3600.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	15250.1	2913.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14846.2	2287.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	14568.4	2024.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13725.1	1621.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10922.5	1110.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6948.4	681.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3201.5	313.1	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1004.9	191.9	40.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	262.6	121.2	40.4	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	136.3	85.8	35.3	15.1	10.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	85.8	35.3	15.1	10.1	10.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	75.7	20.2	10.1	10.1	5.0	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)