

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: P482983

Luminaire Tested: **IFLD-L-SA8A-827-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482983
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-827-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

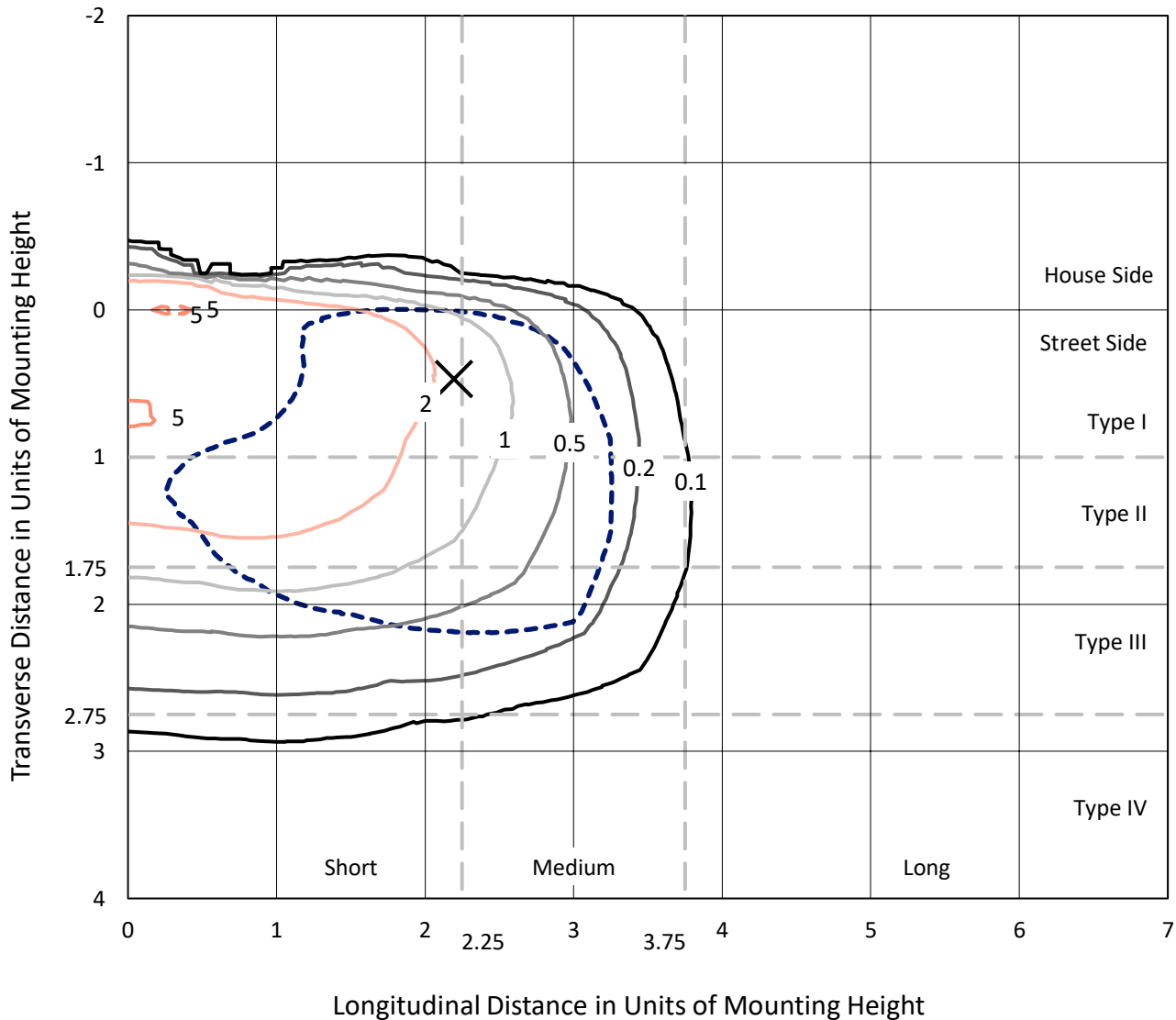
Lumens per Lamp: N/A
Luminaire Lumens: 18050.8 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 247.8
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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 CATALOG NUMBER: IFLD-L-SA8A-827-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

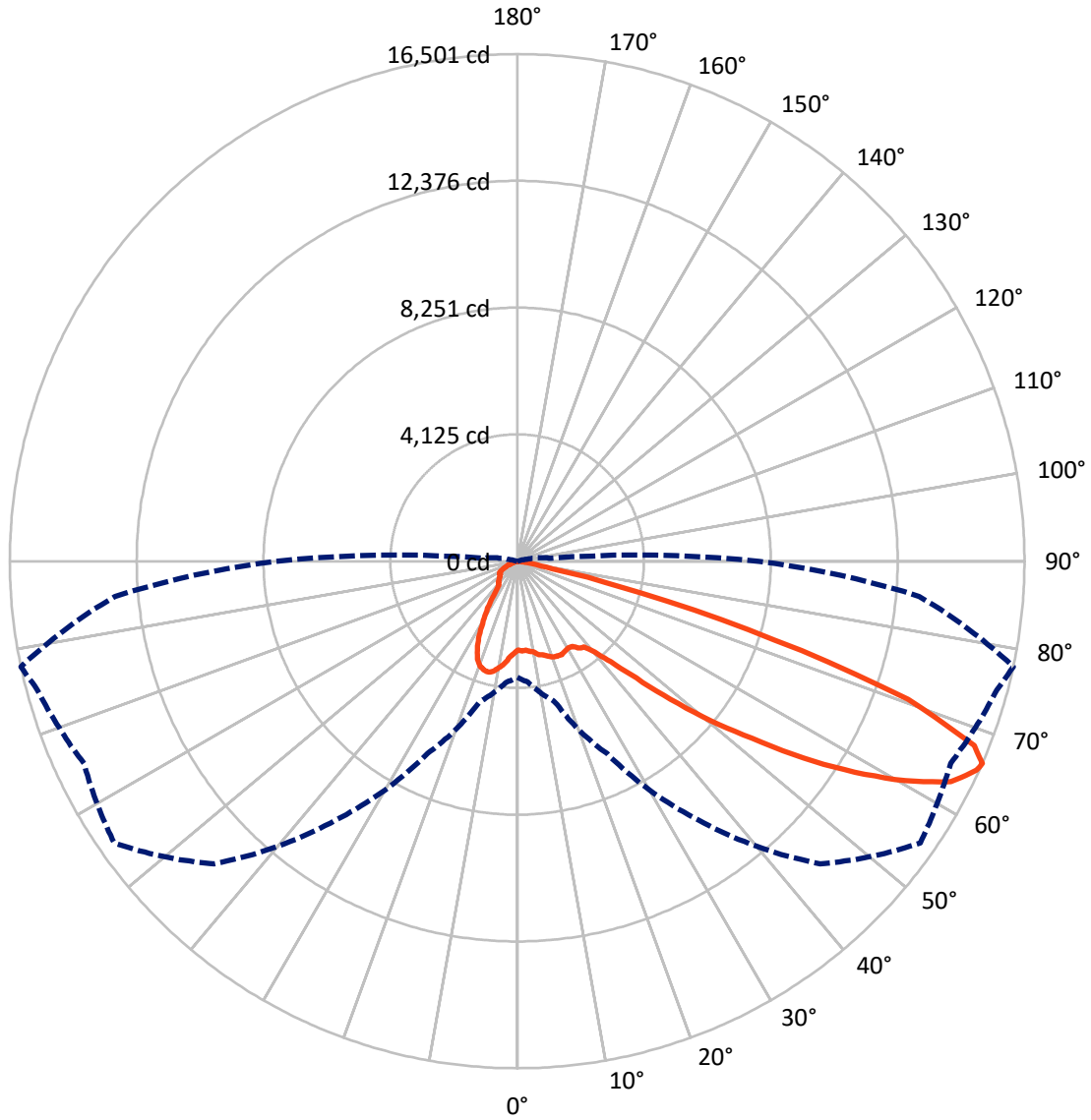
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

REPORT NUMBER: P482983
CATALOG NUMBER: IFLD-L-SA8A-827-U-T3R-HSS

Luminous Intensity Polar Plot



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

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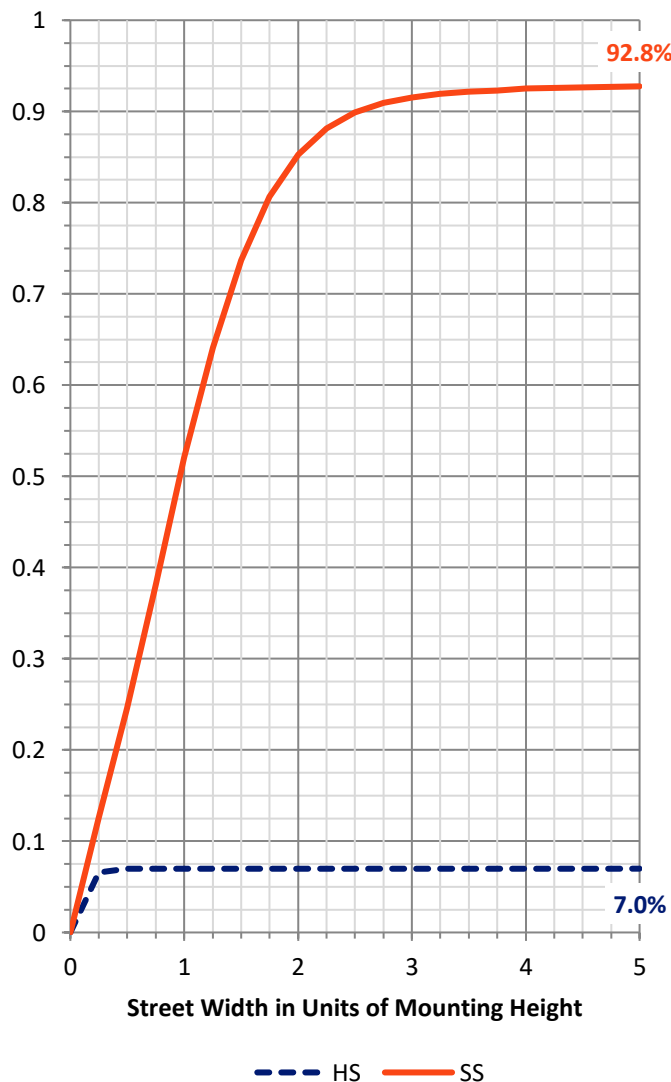
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1269.1	0.0	1269.1
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	16781.7	0.0	16781.7
	% Fixture	93.0	0.0	93.0
Total	Lumens	18050.8	0.0	18050.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.5	1.5
10°-20°	597.1	3.3
20°-30°	853.4	4.7
30°-40°	1460.8	8.1
40°-50°	2636.6	14.6
50°-60°	4508.9	25.0
60°-70°	5549.6	30.7
70°-80°	2098.1	11.6
80°-90°	82.0	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°	18050.8	100.0
0°-180°	18050.8	100.0

Coefficient of Utilization

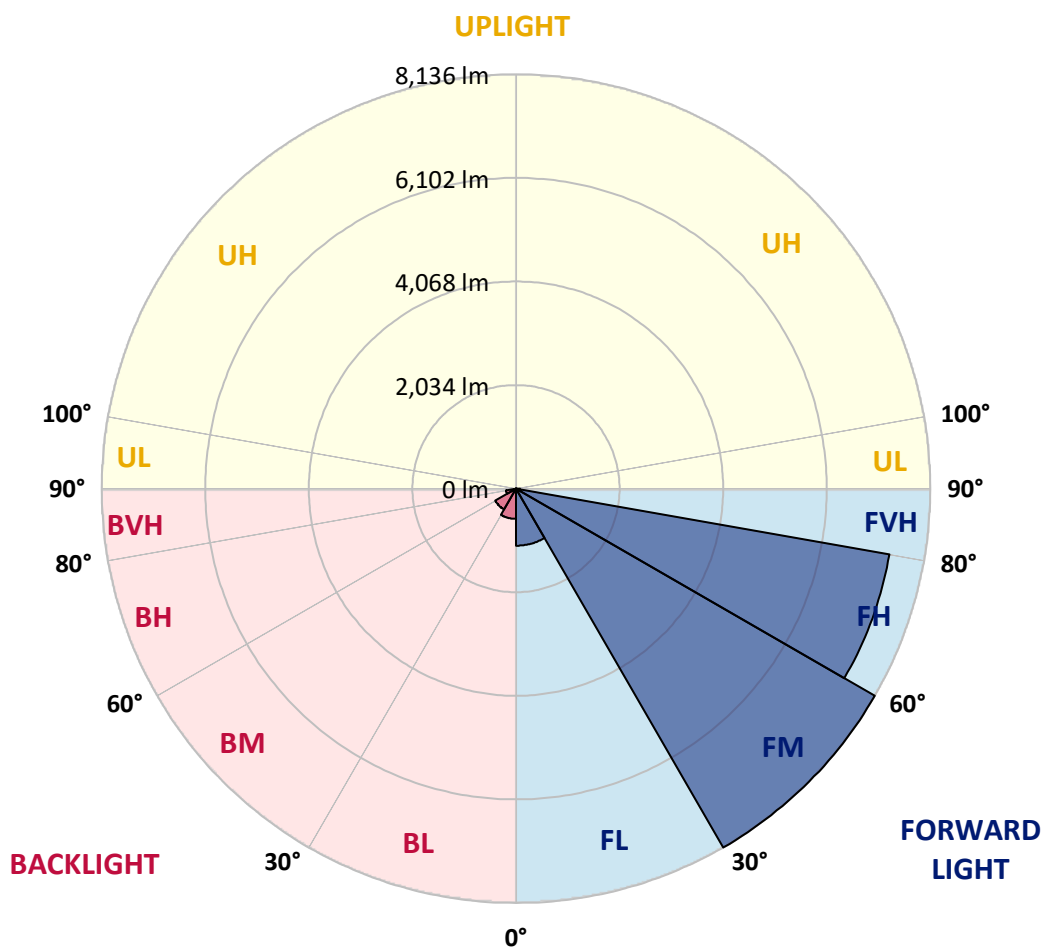


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 CATALOG NUMBER: IFLD-L-SA8A-827-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1120.6	6.2			
FM (30°-60°)	8135.9	45.1			
FH (60°-80°)	7446.6	41.3			G3/7500
FVH (80°-90°)	78.7	0.4			G1/100
BL (0°-30°)	594.3	3.3	B2/1000		
BM (30°-60°)	470.4	2.6	B1/1000		
BH (60°-80°)	201.1	1.1	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





REPORT NUMBER: P482983

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1
2.5°	2659.3	2634.8	2659.3	2694.8	2713.9	2730.2	2787.5	2836.6	2888.4	2923.9	2913.0
5°	2465.7	2512.0	2517.5	2528.4	2558.4	2656.6	2689.3	2773.9	2902.1	2913.0	2962.1
7.5°	2312.9	2299.3	2334.7	2405.7	2482.0	2539.3	2634.8	2782.0	2915.7	2962.1	3057.5
10°	2092.0	2119.3	2157.5	2228.4	2321.1	2462.9	2632.0	2795.7	2986.6	3003.0	3180.3
12.5°	1972.0	1944.7	2004.7	2078.4	2236.5	2367.5	2574.8	2771.1	3030.3	3120.3	3324.8
15°	1873.8	1887.4	1944.7	1993.8	2124.7	2291.1	2533.8	2831.1	3103.9	3166.6	3477.6
17.5°	1832.9	1824.7	1868.3	1917.4	2078.4	2266.6	2517.5	2833.9	3169.4	3251.2	3581.2
20°	1852.0	1868.3	1854.7	1901.1	2002.0	2192.9	2542.0	2885.7	3218.4	3330.3	3693.0
22.5°	2152.0	2130.2	2021.1	1933.8	1939.3	2162.9	2522.9	2918.4	3262.1	3352.1	3769.4
25°	2934.8	2817.5	2547.5	2212.0	1991.1	2081.1	2501.1	2907.5	3253.9	3365.7	3815.8
27.5°	3723.0	3622.1	3357.5	2836.6	2201.1	2048.4	2424.7	2915.7	3213.0	3316.6	3739.4
30°	4554.9	4609.5	4216.7	3597.6	2752.0	2228.4	2375.7	2872.1	3185.7	3273.0	3755.8
32.5°	5408.6	5386.8	5149.5	4478.6	3540.3	2626.6	2454.7	2915.7	3221.2	3305.7	3851.2
35°	6076.9	6000.5	5760.5	5155.0	4192.2	3226.6	2727.5	3123.0	3376.6	3477.6	3987.6
37.5°	6406.9	6439.6	6300.5	5774.1	4906.8	3783.0	3068.4	3123.0	3425.7	3543.0	4208.5
40°	6663.3	6761.5	6709.6	6540.5	5615.9	4410.4	3444.8	3316.6	3673.9	3894.9	4623.1
42.5°	6971.5	6925.1	7230.6	7075.1	6543.3	5201.3	4104.9	3777.6	4260.4	4473.1	5245.0
45°	7135.1	7312.4	7544.3	7743.4	7402.4	6188.7	4966.8	4593.1	5157.7	5427.7	6169.6
47.5°	7555.2	7626.1	8002.5	8253.4	8100.7	7317.9	6276.0	5785.0	6286.9	6712.4	7227.9
50°	7800.6	7705.2	8231.6	8613.4	8700.7	8253.4	7448.8	7066.9	7628.8	8171.6	8218.0
52.5°	7585.2	7857.9	8384.3	9068.9	9311.7	9088.0	8826.2	8659.8	9055.3	9557.2	9333.5
55°	6829.7	7015.1	8297.0	9568.1	10350.9	10247.2	10490.0	10380.9	10779.1	11310.9	10637.2
57.5°	6221.4	6453.3	7579.7	9827.2	11319.1	11624.6	11930.1	11861.9	12341.9	12955.6	11741.9
60°	5842.3	5975.9	7061.5	9761.7	11891.9	13048.3	13738.4	13258.4	14041.2	14510.3	12606.5
62.5°	5185.0	5269.5	6306.0	8894.4	12063.7	14054.8	15224.9	14573.0	15252.2	15824.9	13228.4
65°	4156.7	4385.8	5242.3	7596.1	10929.1	14240.3	16152.2	15385.8	16043.1	16419.5	13416.6
66°	3783.0	3949.4	4734.9	6908.8	10282.7	13932.1	15996.8	15554.9	16157.7	16501.4	13127.4
67.5°	3139.3	3283.9	3908.5	5929.6	8959.8	13252.9	16105.9	15440.4	16245.0	16035.0	12740.1
70°	2078.4	2171.1	2672.9	4009.4	6240.5	10841.8	14938.5	14545.7	14281.2	13492.9	9960.8
72.5°	971.0	1104.6	1669.2	2430.2	3660.3	7585.2	12181.0	11654.6	10015.4	8755.3	6284.2
75°	439.1	499.1	916.4	1393.8	1642.0	3930.3	7857.9	7096.9	4985.9	4140.3	2752.0
77.5°	237.3	270.0	447.3	662.8	597.3	1377.4	3889.4	3234.8	1571.0	1151.0	799.2
80°	182.7	215.5	373.7	379.1	220.9	357.3	1445.6	1001.0	392.8	297.3	190.9
82.5°	95.5	136.4	294.6	245.5	111.8	144.6	447.3	278.2	122.7	98.2	81.8
85°	38.2	60.0	166.4	163.6	65.5	49.1	125.5	84.6	49.1	40.9	38.2
87.5°	2.7	2.7	90.0	62.7	40.9	13.6	19.1	19.1	24.5	21.8	27.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P482983
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1
2.5°	2962.1	2994.8	3000.2	3090.3	3109.3	3090.3	3139.3	3131.2	3153.0	3136.6	3106.6
5°	3030.3	3076.6	3166.6	3234.8	3234.8	3180.3	3136.6	3079.3	2994.8	2973.0	2956.6
7.5°	3147.5	3294.8	3376.6	3333.0	3245.7	3041.2	2757.5	2550.2	2375.7	2310.2	2280.2
10°	3354.8	3436.6	3532.1	3354.8	2992.1	2558.4	2081.1	1767.4	1521.9	1467.4	1426.5
12.5°	3488.5	3619.4	3673.9	3234.8	2522.9	1876.5	1358.3	1003.7	831.9	701.0	679.1
15°	3663.0	3813.0	3701.2	2910.2	1988.3	1230.1	703.7	439.1	357.3	335.5	335.5
17.5°	3783.0	3946.7	3589.4	2506.6	1410.1	654.6	349.1	302.8	297.3	300.0	294.6
20°	3993.1	4091.2	3420.3	2037.4	842.8	335.5	280.9	270.0	264.6	272.7	267.3
22.5°	4072.2	4162.2	3144.8	1475.6	379.1	223.7	210.0	201.8	207.3	204.6	201.8
25°	4066.7	4113.1	2692.0	845.5	111.8	87.3	79.1	79.1	73.6	76.4	73.6
27.5°	4107.6	3993.1	2184.7	250.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4129.4	3799.4	1554.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4140.3	3698.5	1001.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4224.9	3496.7	428.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4282.2	3237.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4519.5	3155.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4827.7	3003.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5255.9	2776.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5823.2	2642.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6246.0	2432.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6783.3	2307.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7421.5	2312.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8002.5	2274.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8299.8	1944.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8237.0	1573.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8018.8	1235.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7868.8	1093.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7413.3	875.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5899.6	600.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3753.0	368.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1729.2	169.1	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	542.8	103.6	21.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	141.8	65.5	21.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	73.6	46.4	19.1	8.2	5.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.4	19.1	8.2	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	40.9	10.9	5.5	5.5	2.7	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)