

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: P483017

Luminaire Tested: **IFLD-L-SA7A-830-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483017
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-830-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

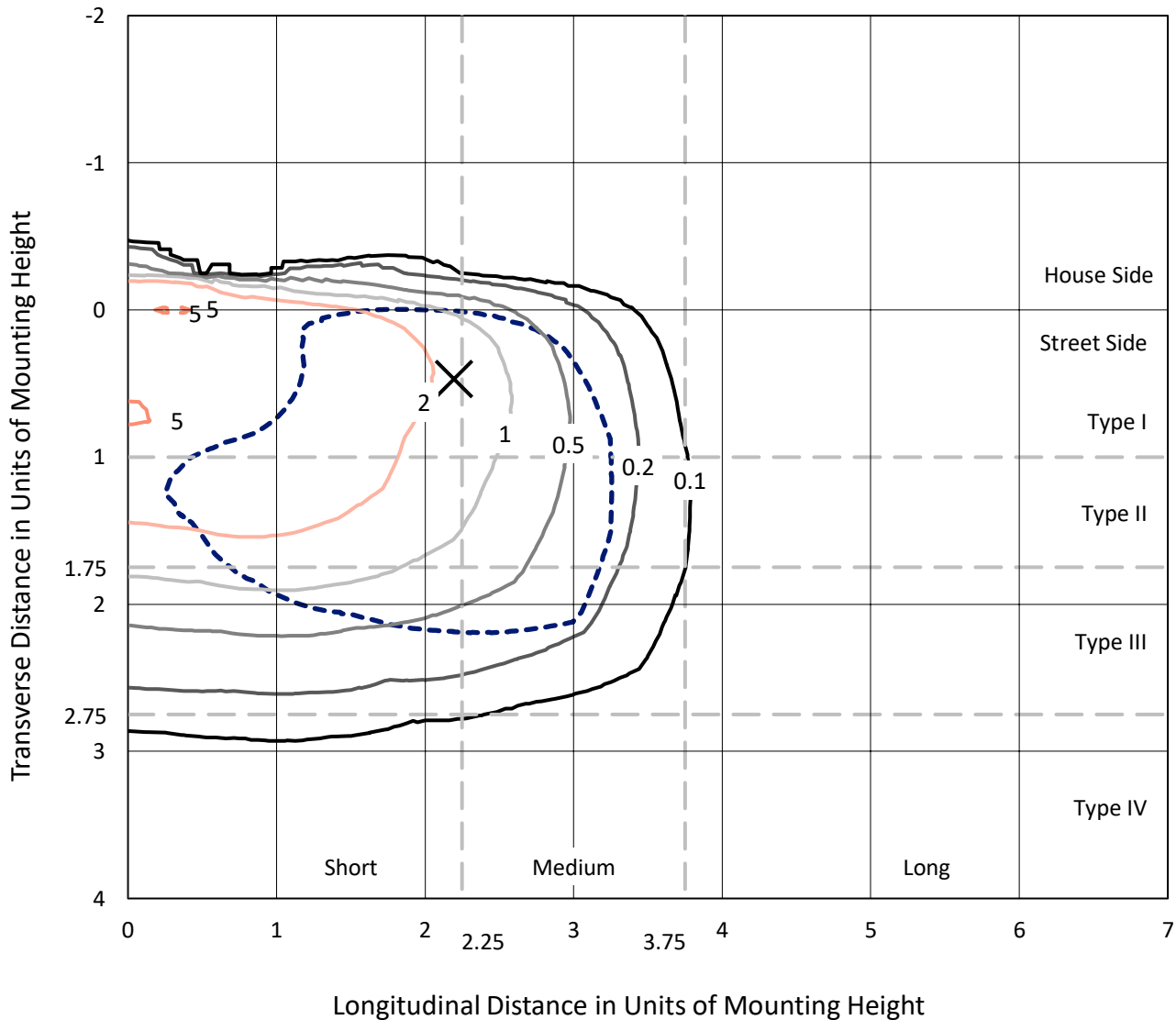
Lumens per Lamp: N/A
Luminaire Lumens: 17828.3 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 217.6
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

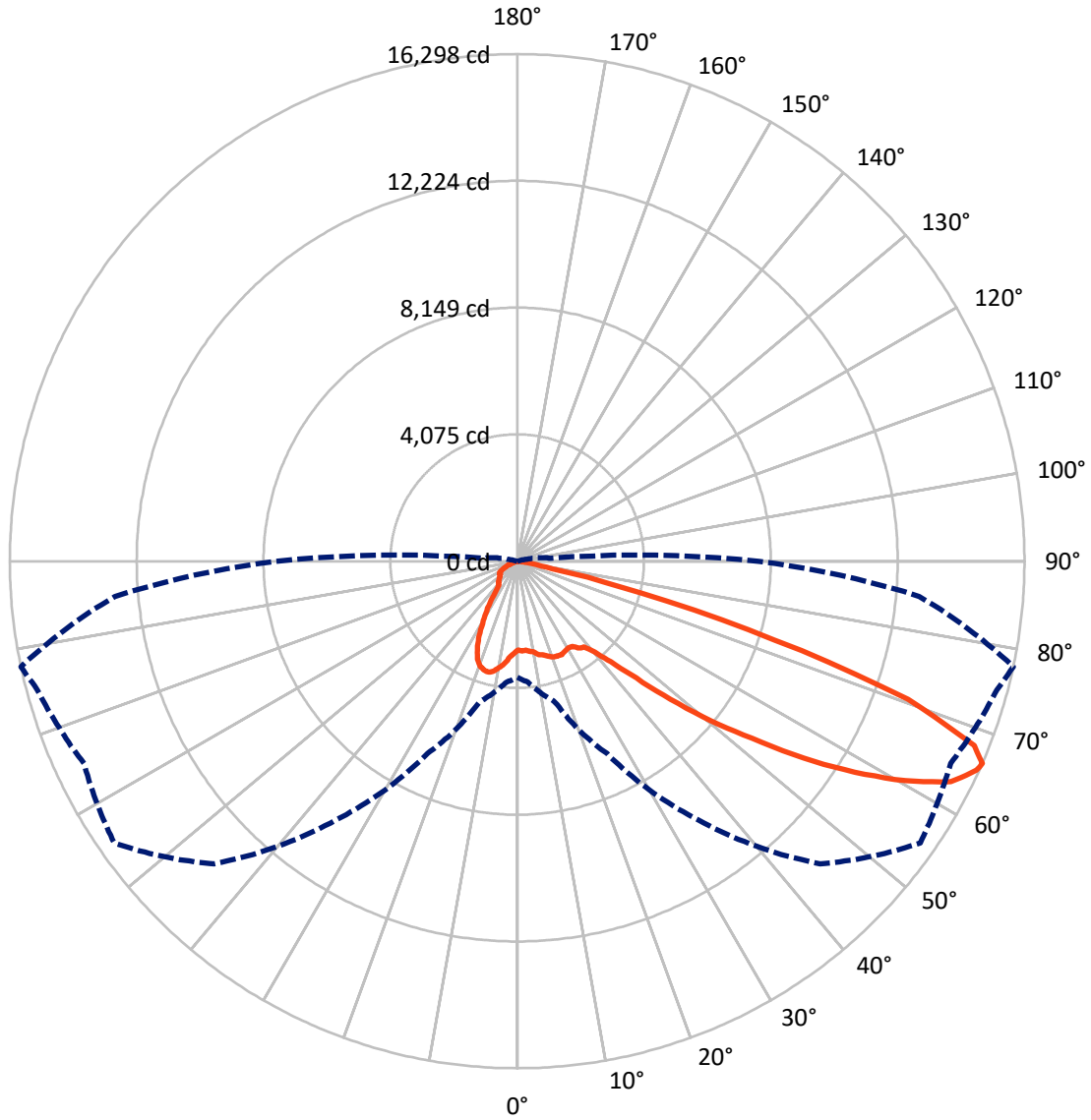
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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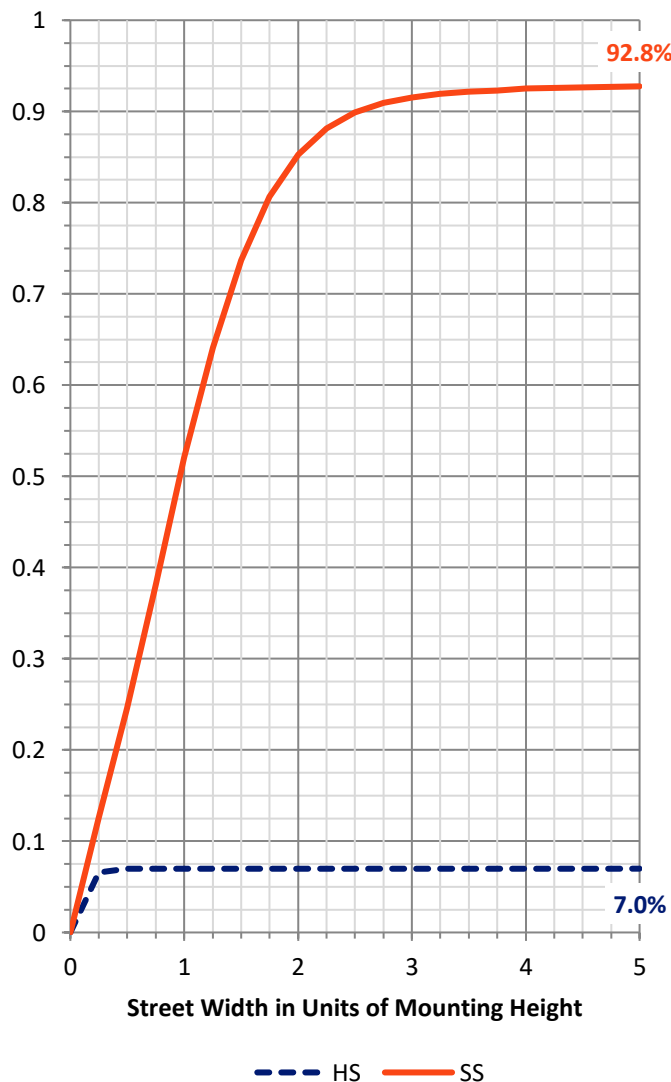
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1253.4	0.0	1253.4
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	16574.9	0.0	16574.9
	% Fixture	93.0	0.0	93.0
Total	Lumens	17828.3	0.0	17828.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.2	1.5
10°-20°	589.7	3.3
20°-30°	842.9	4.7
30°-40°	1442.8	8.1
40°-50°	2604.1	14.6
50°-60°	4453.3	25.0
60°-70°	5481.2	30.7
70°-80°	2072.2	11.6
80°-90°	80.9	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°	17828.3	100.0
0°-180°	17828.3	100.0

Coefficient of Utilization

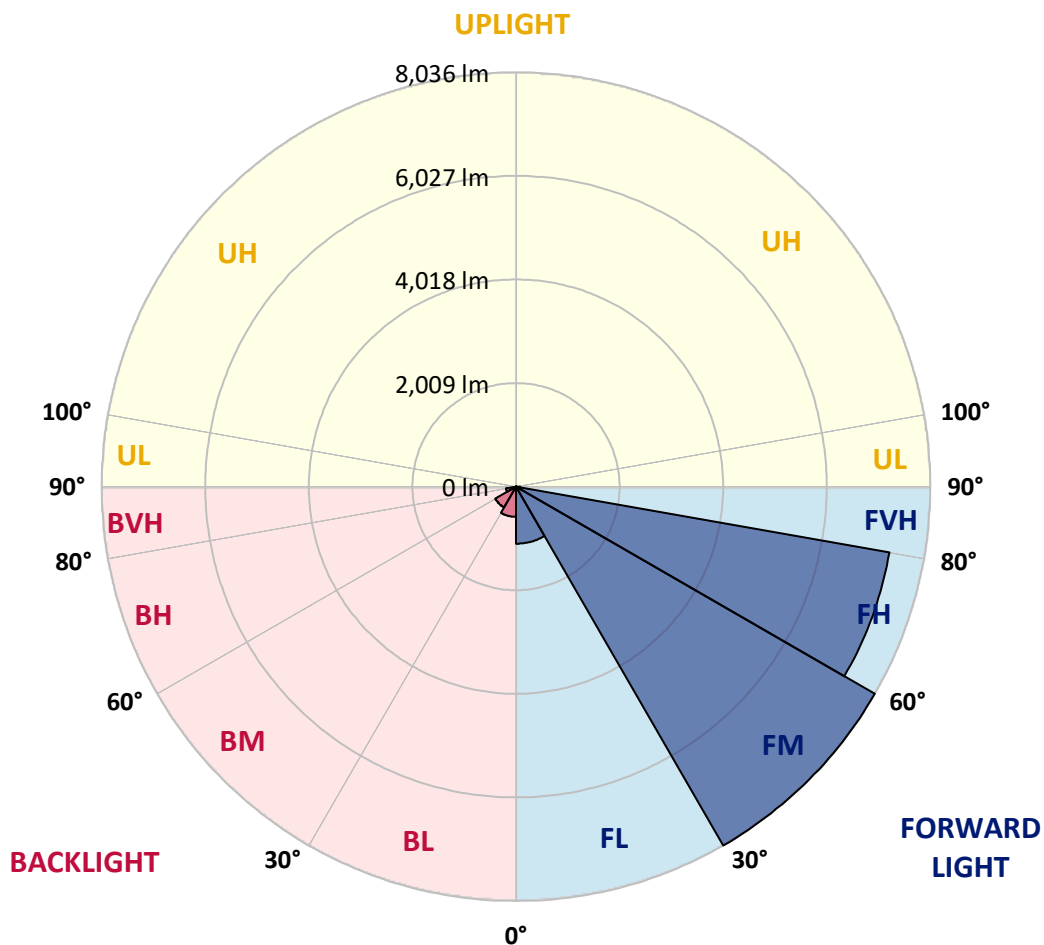


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1106.8	6.2			
FM (30°-60°)	8035.6	45.1			
FH (60°-80°)	7354.8	41.3			G3/7500
FVH (80°-90°)	77.7	0.4			G1/100
BL (0°-30°)	587.0	3.3	B2/1000		
BM (30°-60°)	464.6	2.6	B1/1000		
BH (60°-80°)	198.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2855.5	2855.5	2855.5	2855.5	2855.5	2855.5	2855.5	2855.5	2855.5	2855.5	2855.5
2.5°	2626.5	2602.3	2626.5	2661.6	2680.4	2696.6	2753.1	2801.6	2852.8	2887.8	2877.1
5°	2435.3	2481.1	2486.5	2497.2	2526.9	2623.8	2656.2	2739.7	2866.3	2877.1	2925.6
7.5°	2284.4	2270.9	2306.0	2376.0	2451.4	2508.0	2602.3	2747.8	2879.8	2925.6	3019.8
10°	2066.2	2093.1	2130.9	2200.9	2292.5	2432.6	2599.6	2761.2	2949.8	2966.0	3141.1
12.5°	1947.7	1920.7	1980.0	2052.7	2209.0	2338.3	2543.0	2737.0	2992.9	3081.8	3283.8
15°	1850.7	1864.2	1920.7	1969.2	2098.5	2262.9	2502.6	2796.2	3065.6	3127.6	3434.7
17.5°	1810.3	1802.2	1845.3	1893.8	2052.7	2238.6	2486.5	2798.9	3130.3	3211.1	3537.1
20°	1829.1	1845.3	1831.8	1877.6	1977.3	2165.9	2510.7	2850.1	3178.8	3289.2	3647.5
22.5°	2125.5	2103.9	1996.2	1910.0	1915.3	2136.2	2491.8	2882.5	3221.9	3310.8	3722.9
25°	2898.6	2782.8	2516.1	2184.7	1966.5	2055.4	2470.3	2871.7	3213.8	3324.2	3768.7
27.5°	3677.1	3577.5	3316.2	2801.6	2174.0	2023.1	2394.9	2879.8	3173.4	3275.8	3693.3
30°	4498.8	4552.7	4164.7	3553.2	2718.1	2200.9	2346.4	2836.7	3146.5	3232.7	3709.5
32.5°	5342.0	5320.4	5086.0	4423.4	3496.7	2594.2	2424.5	2879.8	3181.5	3265.0	3803.8
35°	6002.0	5926.5	5689.5	5091.4	4140.5	3186.9	2693.9	3084.5	3335.0	3434.7	3938.5
37.5°	6327.9	6360.3	6222.9	5702.9	4846.3	3736.4	3030.6	3084.5	3383.5	3499.4	4156.7
40°	6581.2	6678.1	6626.9	6459.9	5546.7	4356.0	3402.4	3275.8	3628.7	3846.9	4566.1
42.5°	6885.6	6839.8	7141.5	6987.9	6462.6	5137.2	4054.3	3731.0	4207.8	4418.0	5180.3
45°	7047.2	7222.3	7451.3	7647.9	7311.2	6112.4	4905.6	4536.5	5094.1	5360.8	6093.6
47.5°	7462.1	7532.1	7903.8	8151.7	8000.8	7227.7	6198.6	5713.7	6209.4	6629.6	7138.8
50°	7704.5	7610.2	8130.1	8507.3	8593.5	8151.7	7357.0	6979.8	7534.8	8070.9	8116.7
52.5°	7491.7	7761.1	8281.0	8957.2	9196.9	8976.0	8717.4	8553.1	8943.7	9439.4	9218.5
55°	6745.5	6928.7	8194.8	9450.1	10223.3	10120.9	10360.7	10252.9	10646.2	11171.5	10506.1
57.5°	6144.7	6373.7	7486.3	9706.1	11179.6	11481.3	11783.0	11715.7	12189.8	12795.9	11597.2
60°	5770.3	5902.3	6974.5	9641.4	11745.3	12887.5	13569.1	13095.0	13868.1	14331.4	12451.1
62.5°	5121.1	5204.6	6228.3	8784.7	11915.0	13881.6	15037.2	14393.4	15064.2	15629.9	13065.3
65°	4105.5	4331.8	5177.6	7502.5	10794.4	14064.8	15953.2	15196.2	15845.4	16217.2	13251.2
66°	3736.4	3900.7	4676.6	6823.6	10155.9	13760.3	15799.6	15363.2	15958.6	16298.0	12965.7
67.5°	3100.7	3243.4	3860.3	5856.5	8849.4	13089.6	15907.4	15250.1	16044.8	15837.3	12583.1
70°	2052.7	2144.3	2640.0	3960.0	6163.6	10708.2	14754.4	14366.5	14105.2	13326.6	9838.1
72.5°	959.0	1091.0	1648.7	2400.2	3615.2	7491.7	12030.9	11511.0	9891.9	8647.4	6206.7
75°	433.7	493.0	905.1	1376.6	1621.7	3881.9	7761.1	7009.5	4924.4	4089.3	2718.1
77.5°	234.4	266.7	441.8	654.6	590.0	1360.4	3841.5	3194.9	1551.7	1136.8	789.3
80°	180.5	212.8	369.1	374.4	218.2	352.9	1427.8	988.7	387.9	293.6	188.6
82.5°	94.3	134.7	290.9	242.4	110.4	142.8	441.8	274.8	121.2	97.0	80.8
85°	37.7	59.3	164.3	161.6	64.7	48.5	123.9	83.5	48.5	40.4	37.7
87.5°	2.7	2.7	88.9	62.0	40.4	13.5	18.9	18.9	24.2	21.6	26.9
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°	2855.5	2855.5	2855.5	2855.5	2855.5	2855.5	2855.5	2855.5	2855.5	2855.5	2855.5
2.5°	2925.6	2957.9	2963.3	3052.2	3071.0	3052.2	3100.7	3092.6	3114.1	3098.0	3068.3
5°	2992.9	3038.7	3127.6	3194.9	3194.9	3141.1	3098.0	3041.4	2957.9	2936.3	2920.2
7.5°	3108.7	3254.2	3335.0	3291.9	3205.7	3003.7	2723.5	2518.8	2346.4	2281.7	2252.1
10°	3313.5	3394.3	3488.6	3313.5	2955.2	2526.9	2055.4	1745.6	1503.2	1449.3	1408.9
12.5°	3445.5	3574.8	3628.7	3194.9	2491.8	1853.4	1341.6	991.3	821.6	692.3	670.8
15°	3617.9	3766.0	3655.6	2874.4	1963.8	1214.9	695.0	433.7	352.9	331.3	331.3
17.5°	3736.4	3898.0	3545.1	2475.7	1392.7	646.5	344.8	299.0	293.6	296.3	290.9
20°	3943.8	4040.8	3378.1	2012.3	832.4	331.3	277.5	266.7	261.3	269.4	264.0
22.5°	4022.0	4110.9	3106.0	1457.4	374.4	220.9	207.4	199.3	204.7	202.0	199.3
25°	4016.6	4062.4	2658.9	835.1	110.4	86.2	78.1	78.1	72.7	75.4	72.7
27.5°	4057.0	3943.8	2157.8	247.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4078.5	3752.6	1535.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4089.3	3652.9	988.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4172.8	3453.6	422.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4229.4	3197.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4463.8	3116.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4768.2	2966.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5191.1	2742.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5751.4	2610.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6169.0	2402.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6699.7	2279.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7330.1	2284.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7903.8	2246.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8197.5	1920.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8135.5	1554.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7920.0	1220.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7771.8	1080.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7322.0	864.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5826.9	592.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3706.8	363.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1707.9	167.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	536.1	102.4	21.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	140.1	64.7	21.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	72.7	45.8	18.9	8.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	45.8	18.9	8.1	5.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	40.4	10.8	5.4	5.4	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)