

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: P483018

Luminaire Tested: **IFLD-L-SA7B-830-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483018
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-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

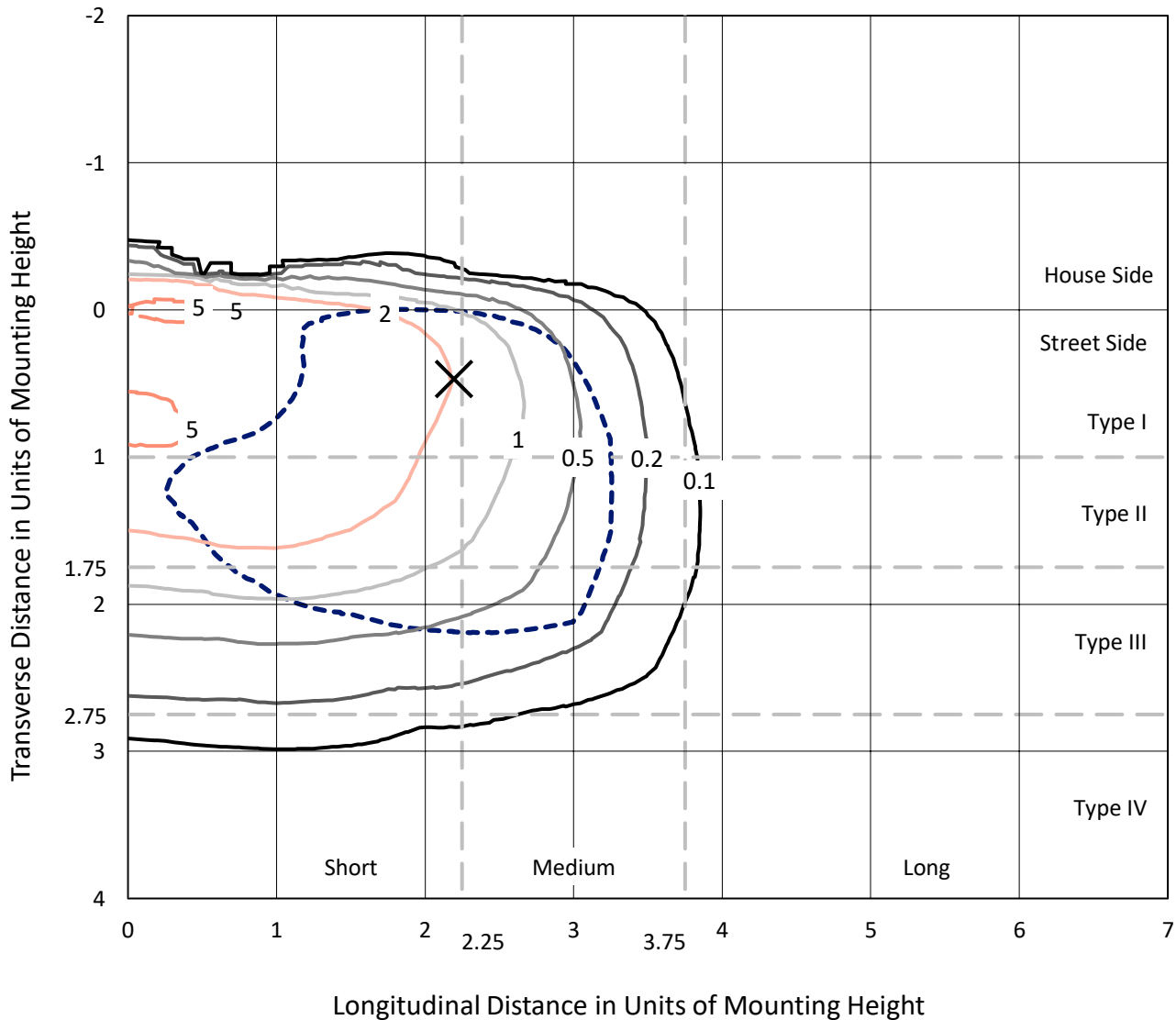
Lumens per Lamp: N/A
Luminaire Lumens: 20284.1 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
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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Iso-Footcandle Lines of Horizontal Illumination

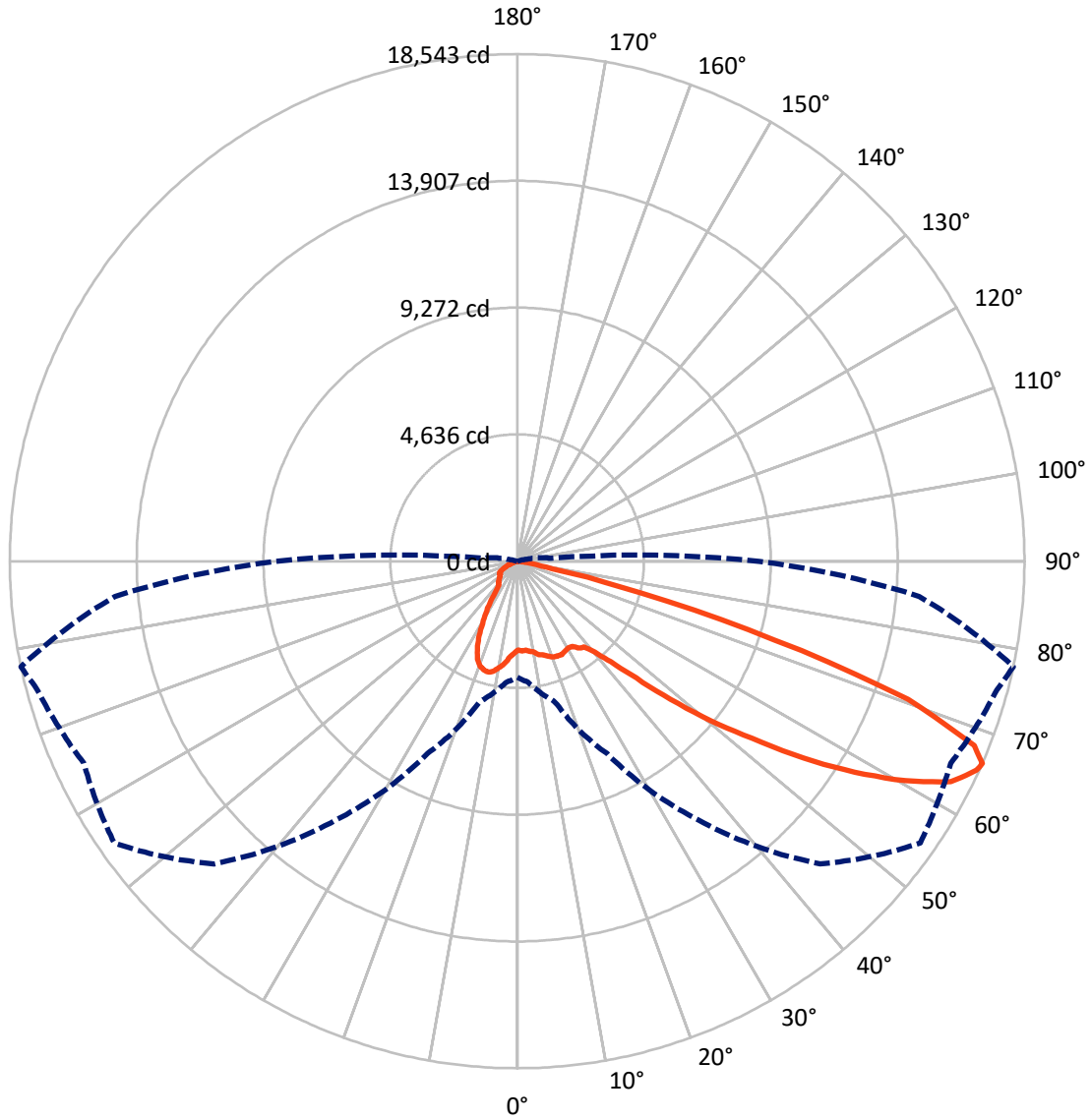
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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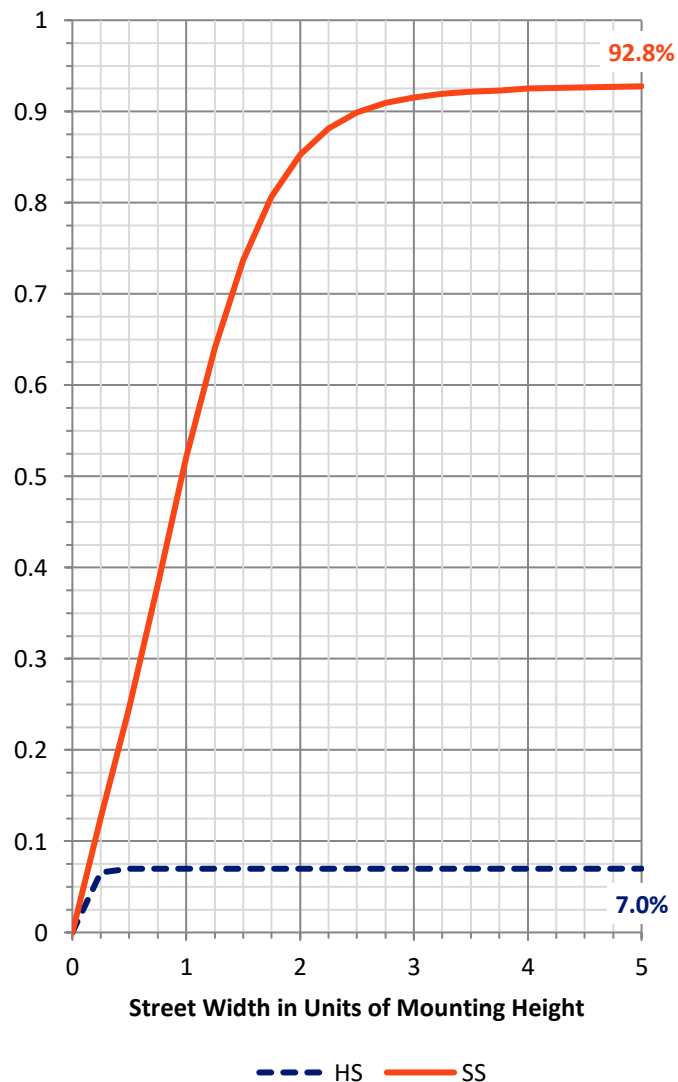
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1426.1	0.0	1426.1
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	18858.0	0.0	18858.0
	% Fixture	93.0	0.0	93.0
Total	Lumens	20284.1	0.0	20284.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.2	1.5
10°-20°	670.9	3.3
20°-30°	959.0	4.7
30°-40°	1641.5	8.1
40°-50°	2962.8	14.6
50°-60°	5066.7	25.0
60°-70°	6236.2	30.7
70°-80°	2357.6	11.6
80°-90°	92.1	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°	20284.1	100.0
0°-180°	20284.1	100.0

Coefficient of Utilization

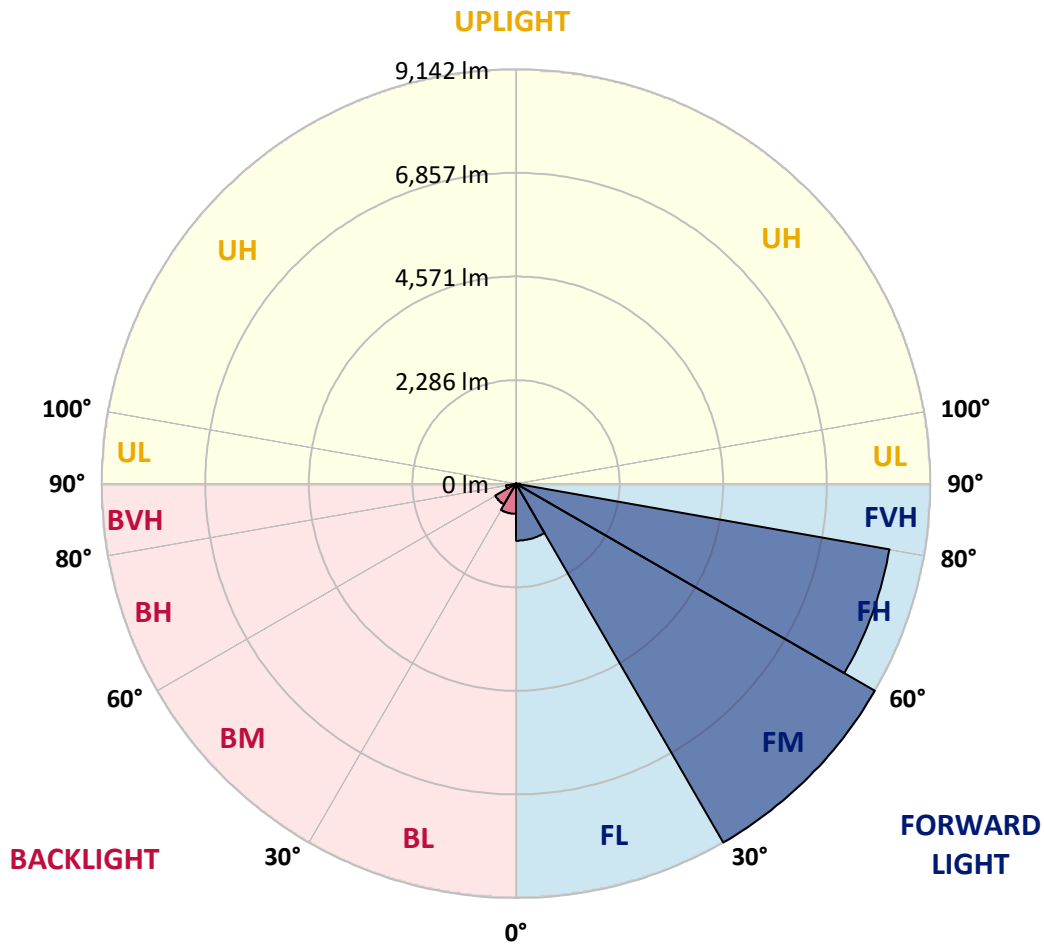


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1259.2	6.2			
FM (30°-60°)	9142.5	45.1			
FH (60°-80°)	8367.9	41.3			G4/12000
FVH (80°-90°)	88.4	0.4			G1/100
BL (0°-30°)	667.9	3.3	B2/1000		
BM (30°-60°)	528.5	2.6	B1/1000		
BH (60°-80°)	225.9	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3248.9	3248.9	3248.9	3248.9	3248.9	3248.9	3248.9	3248.9	3248.9	3248.9	3248.9
2.5°	2988.3	2960.7	2988.3	3028.2	3049.6	3068.0	3132.4	3187.6	3245.8	3285.6	3273.4
5°	2770.7	2822.8	2829.0	2841.2	2874.9	2985.3	3022.0	3117.1	3261.1	3273.4	3328.5
7.5°	2599.1	2583.8	2623.6	2703.3	2789.1	2853.5	2960.7	3126.3	3276.4	3328.5	3435.8
10°	2350.8	2381.5	2424.4	2504.1	2608.3	2767.7	2957.7	3141.6	3356.1	3374.5	3573.7
12.5°	2216.0	2185.3	2252.7	2335.5	2513.3	2660.4	2893.3	3114.0	3405.2	3506.3	3736.2
15°	2105.6	2120.9	2185.3	2240.5	2387.6	2574.6	2847.3	3181.4	3487.9	3558.4	3907.8
17.5°	2059.7	2050.5	2099.5	2154.7	2335.5	2547.0	2829.0	3184.5	3561.5	3653.4	4024.3
20°	2081.1	2099.5	2084.2	2136.3	2249.7	2464.2	2856.5	3242.7	3616.6	3742.3	4150.0
22.5°	2418.3	2393.7	2271.1	2173.1	2179.2	2430.5	2835.1	3279.5	3665.7	3766.8	4235.8
25°	3297.9	3166.1	2862.7	2485.7	2237.4	2338.6	2810.6	3267.2	3656.5	3782.2	4287.9
27.5°	4183.7	4070.3	3773.0	3187.6	2473.4	2301.8	2724.7	3276.4	3610.5	3727.0	4202.1
30°	5118.5	5179.8	4738.4	4042.7	3092.5	2504.1	2669.6	3227.4	3579.9	3677.9	4220.4
32.5°	6077.8	6053.3	5786.6	5032.7	3978.3	2951.6	2758.5	3276.4	3619.7	3714.7	4327.7
35°	6828.7	6742.9	6473.2	5792.8	4710.8	3625.8	3065.0	3509.4	3794.4	3907.8	4481.0
37.5°	7199.6	7236.4	7080.0	6488.5	5513.9	4251.1	3448.1	3509.4	3849.6	3981.4	4729.2
40°	7487.7	7598.0	7539.8	7349.8	6310.7	4956.0	3871.0	3727.0	4128.5	4376.8	5195.1
42.5°	7834.0	7781.9	8125.2	7950.5	7352.8	5844.9	4612.8	4245.0	4787.5	5026.5	5893.9
45°	8017.9	8217.1	8477.7	8701.4	8318.3	6954.4	5581.3	5161.4	5795.8	6099.3	6932.9
47.5°	8489.9	8569.6	8992.6	9274.6	9102.9	8223.3	7052.5	6500.8	7064.7	7542.9	8122.1
50°	8765.8	8658.5	9250.0	9679.1	9777.2	9274.6	8370.4	7941.3	8572.7	9182.6	9234.7
52.5°	8523.6	8830.1	9421.7	10191.0	10463.8	10212.4	9918.2	9731.2	10175.7	10739.6	10488.3
55°	7674.6	7883.1	9323.6	10751.9	11631.5	11515.0	11787.8	11665.2	12112.7	12710.4	11953.3
57.5°	6991.2	7251.7	8517.5	11043.0	12719.6	13062.8	13406.1	13329.5	13868.9	14558.5	13194.6
60°	6565.1	6715.3	7935.2	10969.5	13363.2	14662.7	15438.2	14898.8	15778.4	16305.6	14166.2
62.5°	5826.5	5921.5	7086.2	9994.8	13556.3	15793.7	17108.6	16376.1	17139.2	17782.9	14865.0
65°	4671.0	4928.4	5890.8	8535.9	12281.3	16002.1	18150.7	17289.4	18028.1	18451.0	15076.5
66°	4251.1	4438.1	5320.8	7763.5	11554.9	15655.8	17976.0	17479.4	18156.8	18543.0	14751.6
67.5°	3527.8	3690.2	4392.1	6663.2	10068.4	14892.6	18098.6	17350.7	18254.9	18018.9	14316.4
70°	2335.5	2439.7	3003.7	4505.5	7012.6	12183.2	16786.8	16345.4	16048.1	15162.3	11193.2
72.5°	1091.1	1241.3	1875.8	2730.9	4113.2	8523.6	13688.1	13096.6	11254.5	9838.5	7061.7
75°	493.5	560.9	1029.8	1566.2	1845.1	4416.6	8830.1	7975.0	5602.7	4652.6	3092.5
77.5°	266.7	303.4	502.7	744.8	671.2	1547.8	4370.6	3635.0	1765.4	1293.4	898.0
80°	205.4	242.1	419.9	426.0	248.3	401.5	1624.4	1124.8	441.4	334.1	214.5
82.5°	107.3	153.2	331.0	275.8	125.7	162.4	502.7	312.6	137.9	110.3	91.9
85°	42.9	67.4	187.0	183.9	73.6	55.2	141.0	95.0	55.2	46.0	42.9
87.5°	3.1	3.1	101.1	70.5	46.0	15.3	21.5	21.5	27.6	24.5	30.6
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°	3248.9	3248.9	3248.9	3248.9	3248.9	3248.9	3248.9	3248.9	3248.9	3248.9	3248.9
2.5°	3328.5	3365.3	3371.5	3472.6	3494.0	3472.6	3527.8	3518.6	3543.1	3524.7	3491.0
5°	3405.2	3457.3	3558.4	3635.0	3635.0	3573.7	3524.7	3460.3	3365.3	3340.8	3322.4
7.5°	3537.0	3702.5	3794.4	3745.4	3647.3	3417.4	3098.7	2865.7	2669.6	2596.0	2562.3
10°	3769.9	3861.8	3969.1	3769.9	3362.3	2874.9	2338.6	1986.1	1710.2	1648.9	1603.0
12.5°	3920.1	4067.2	4128.5	3635.0	2835.1	2108.7	1526.3	1127.9	934.8	787.7	763.2
15°	4116.2	4284.8	4159.1	3270.3	2234.4	1382.3	790.8	493.5	401.5	377.0	377.0
17.5°	4251.1	4435.0	4033.5	2816.7	1584.6	735.6	392.3	340.2	334.1	337.1	331.0
20°	4487.1	4597.4	3843.5	2289.5	947.1	377.0	315.7	303.4	297.3	306.5	300.4
22.5°	4576.0	4677.1	3533.9	1658.1	426.0	251.3	236.0	226.8	232.9	229.9	226.8
25°	4569.8	4622.0	3025.1	950.1	125.7	98.1	88.9	88.9	82.8	85.8	82.8
27.5°	4615.8	4487.1	2455.0	282.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4640.3	4269.5	1747.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4652.6	4156.1	1124.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4747.6	3929.3	481.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4812.0	3638.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5078.6	3546.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5425.0	3374.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5906.2	3120.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6543.7	2969.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7018.7	2733.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7622.5	2593.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8339.7	2599.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8992.6	2556.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9326.7	2185.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9256.2	1768.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9011.0	1388.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8842.4	1229.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8330.5	983.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6629.5	674.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4217.4	413.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1943.2	190.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	609.9	116.5	24.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	159.4	73.6	24.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	82.8	52.1	21.5	9.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	52.1	21.5	9.2	6.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	46.0	12.3	6.1	6.1	3.1	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)