

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: P481537

Luminaire Tested: **IFLD-L-SA7C-722-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481537
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-722-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

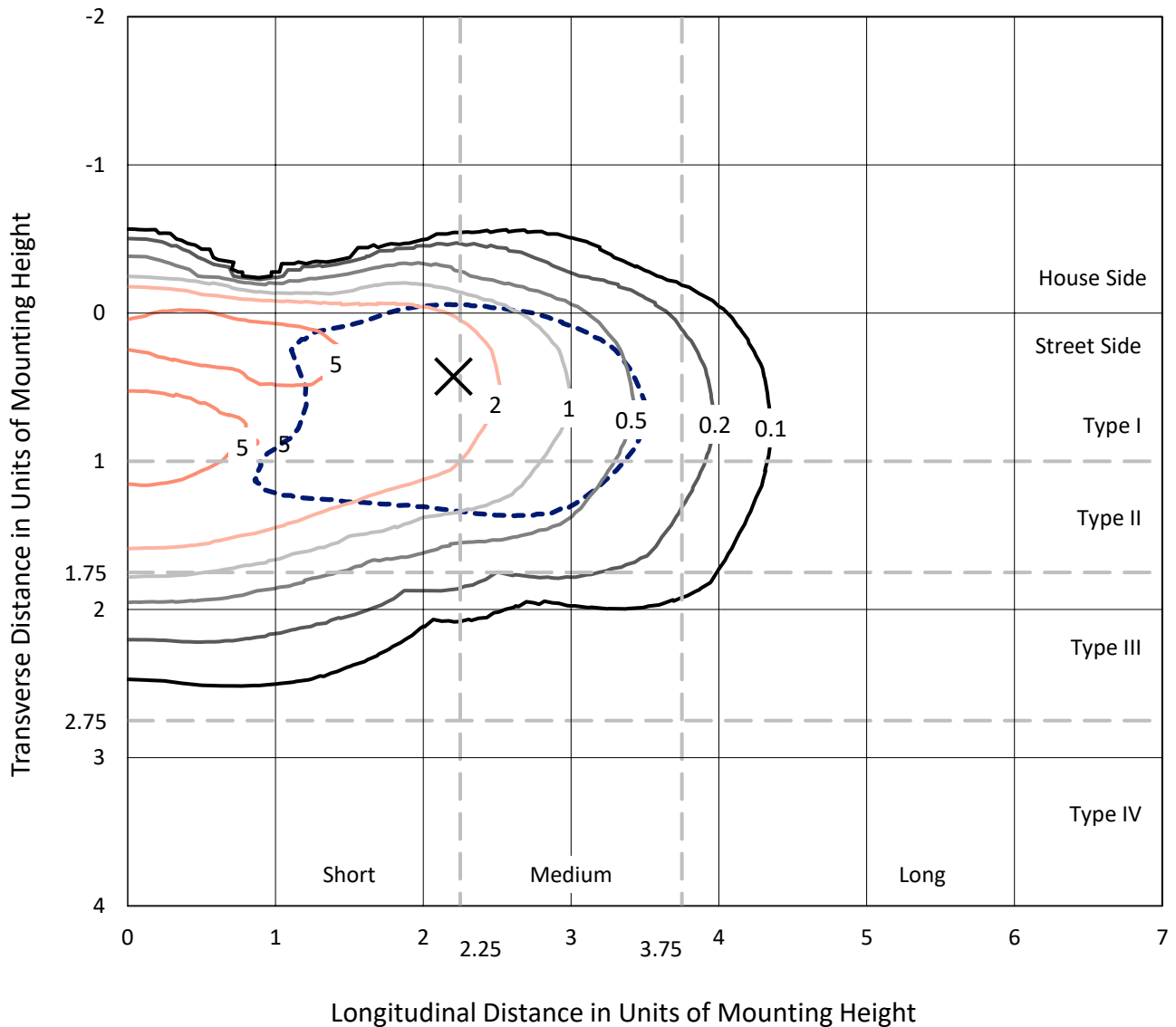
Lumens per Lamp: N/A
Luminaire Lumens: 23515.5 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 369
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

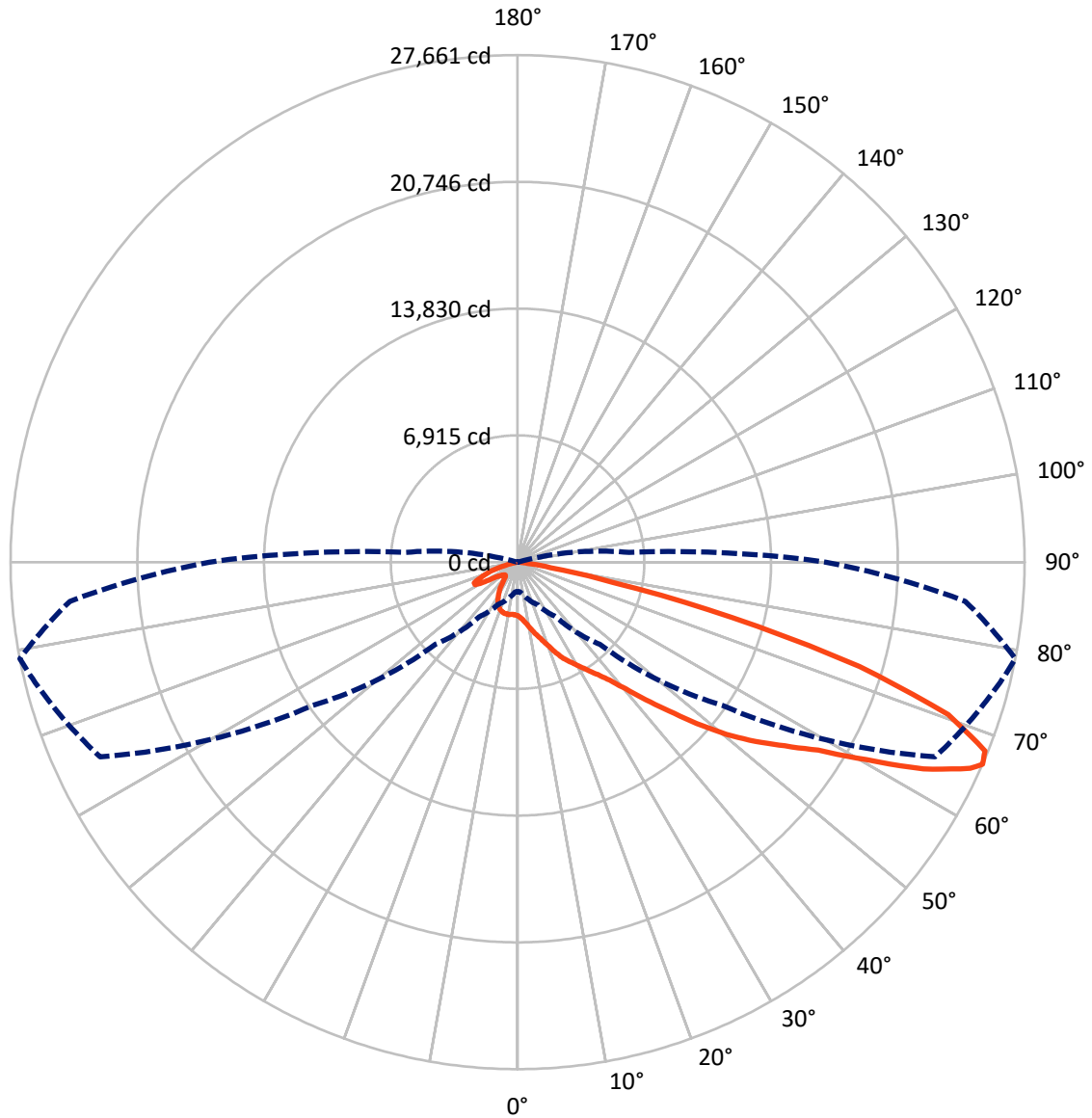
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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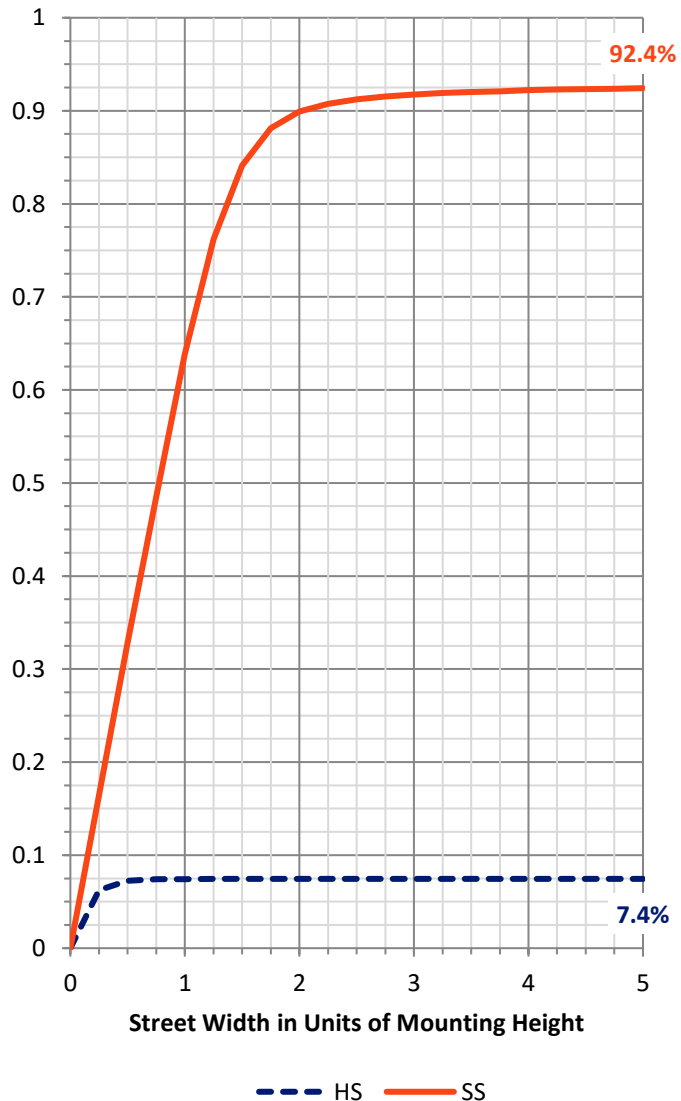
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1765.7	0.0	1765.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	21749.8	0.0	21749.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	23515.5	0.0	23515.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.7	1.2
10°-20°	761.5	3.2
20°-30°	1265.0	5.4
30°-40°	2172.8	9.2
40°-50°	3936.2	16.7
50°-60°	6222.1	26.5
60°-70°	6331.4	26.9
70°-80°	2414.5	10.3
80°-90°	135.4	0.6
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°	23515.5	100.0
0°-180°	23515.5	100.0

Coefficient of Utilization



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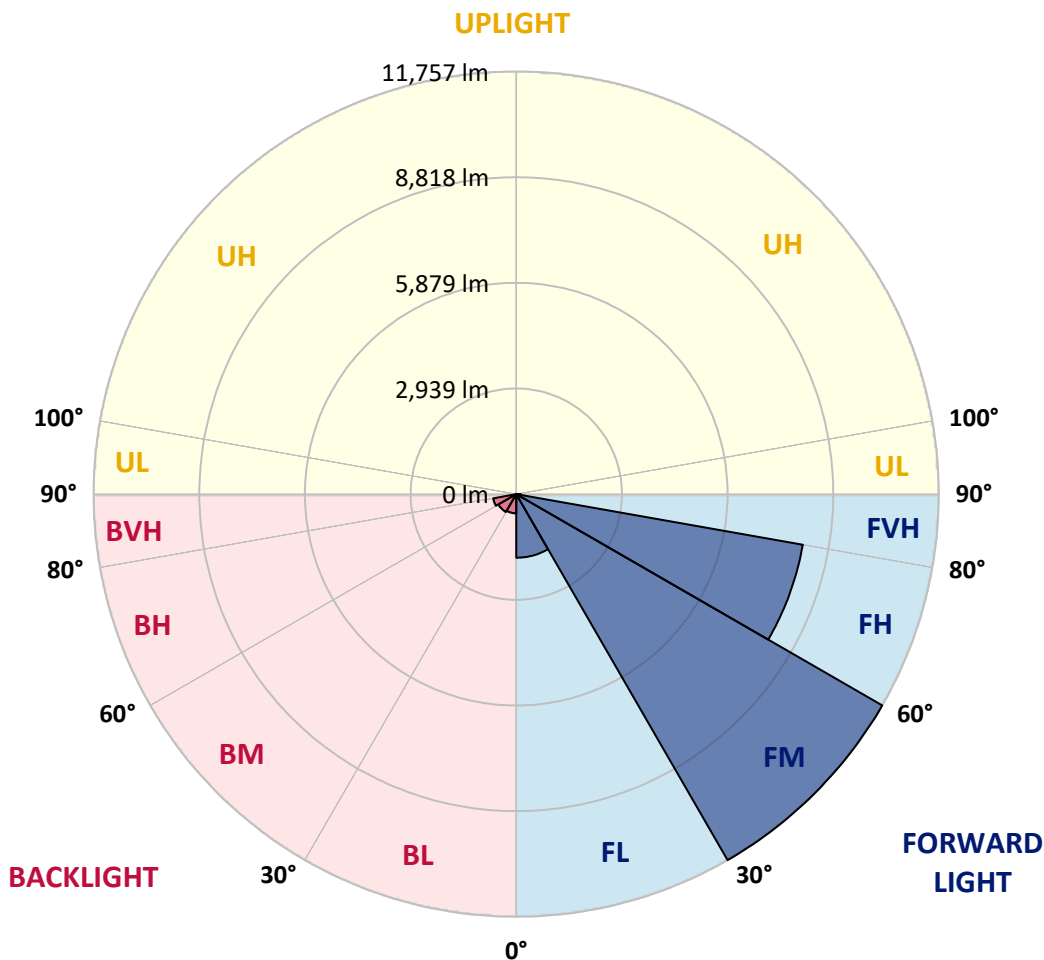
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1769.1	7.5			
FM (30°-60°)	11757.2	50.0			
FH (60°-80°)	8095.0	34.4			G4/12000
FVH (80°-90°)	128.4	0.5			G2/225
BL (0°-30°)	534.0	2.3	B2/1000		
BM (30°-60°)	573.9	2.4	B1/1000		
BH (60°-80°)	650.9	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.9	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2925.6	2925.6	2925.6	2925.6	2925.6	2925.6	2925.6	2925.6	2925.6	2925.6	2925.6
2.5°	3313.5	3309.9	3295.4	3270.0	3237.4	3226.5	3179.4	3114.1	3077.9	3038.0	3019.9
5°	3541.9	3523.8	3567.3	3549.2	3556.4	3469.4	3411.4	3364.3	3226.5	3172.1	3085.1
7.5°	3592.7	3610.8	3607.2	3636.2	3665.2	3697.8	3657.9	3589.0	3451.3	3371.5	3277.3
10°	3592.7	3585.4	3614.4	3654.3	3737.7	3810.2	3918.9	3828.3	3723.2	3628.9	3458.5
12.5°	3527.4	3516.5	3545.5	3628.9	3777.5	3926.2	4045.8	4132.8	3984.2	3908.1	3686.9
15°	3328.0	3317.1	3436.8	3585.4	3781.2	4024.1	4274.2	4415.6	4314.1	4194.5	3947.9
17.5°	3081.5	3096.0	3222.9	3469.4	3781.2	4071.2	4390.2	4698.4	4683.9	4531.6	4274.2
20°	2998.1	3009.0	3135.9	3313.5	3668.8	4103.8	4571.5	5006.5	5093.5	4912.3	4575.1
22.5°	3157.6	3146.7	3157.6	3266.4	3592.7	4074.8	4691.1	5358.2	5514.1	5372.7	4970.3
25°	3701.4	3694.2	3603.5	3436.8	3549.2	4009.6	4752.8	5590.2	5949.1	5818.6	5289.3
27.5°	4499.0	4470.0	4328.6	3980.6	3752.2	4049.4	4854.3	5815.0	6329.8	6181.1	5575.7
30°	5354.5	5285.7	5100.8	4665.7	4277.8	4198.1	4912.3	5981.7	6753.9	6565.4	5825.8
32.5°	5945.5	6036.1	5978.1	5535.8	4941.3	4542.5	5006.5	6192.0	7145.4	7022.2	6253.6
35°	6859.0	6964.2	6721.3	6329.8	5731.6	5089.9	5205.9	6362.4	7747.2	7540.6	6652.4
37.5°	8011.9	8091.6	7917.6	7174.4	6543.6	5764.2	5615.6	6717.7	8265.7	8167.8	7163.6
40°	8591.9	8976.2	8729.7	8059.0	7381.1	6706.8	6293.5	7134.6	9168.4	9088.6	7870.5
42.5°	9393.1	9585.3	9458.4	8961.7	8254.8	7714.6	7130.9	7946.6	10263.2	10263.2	8827.6
45°	10241.4	10248.7	10241.4	9835.4	9208.2	8929.1	8262.0	8965.3	11441.4	11571.9	9973.2
47.5°	10937.5	11155.0	11136.9	10894.0	10408.2	10303.1	9393.1	10125.4	12920.5	13148.9	11089.8
50°	11296.4	11539.3	11611.8	11738.7	11716.9	11938.1	10629.3	11470.4	14196.6	14758.5	12525.4
52.5°	11198.5	11216.6	11662.6	12162.8	12960.4	13580.3	12119.3	12996.7	15690.2	16244.9	13634.7
55°	10397.3	10328.4	11245.6	11818.4	13467.9	14584.5	14182.1	14899.9	16854.0	17698.7	14780.3
57.5°	8639.1	8657.2	9505.5	10669.2	13090.9	14983.3	16386.3	17386.9	18485.3	19337.3	16389.9
60°	5963.6	5941.8	6891.7	8236.7	10875.9	14240.1	17655.2	20609.8	20667.8	21875.0	19279.3
62.5°	3353.4	3360.6	4082.1	5231.3	7609.5	11637.2	17593.5	24032.0	23785.5	24844.1	22563.8
65°	1899.7	1946.8	2443.4	3099.6	4557.0	7812.5	15132.0	25395.1	26189.1	27131.7	24557.7
66°	1606.0	1638.6	2062.8	2559.5	3636.2	6337.0	13620.2	25130.5	26943.1	27660.9	24517.8
67.5°	1243.5	1287.0	1642.3	2030.2	2668.2	4386.6	10962.9	23814.5	27080.9	27501.4	23825.4
70°	851.9	880.9	1152.8	1540.7	1823.5	2244.1	6554.5	19688.9	24572.2	24927.5	20707.6
72.5°	598.2	612.7	808.4	1167.3	1403.0	1283.4	3251.9	14008.1	18804.4	19496.8	16107.2
75°	431.4	445.9	554.7	837.4	1094.8	841.1	1490.0	8947.2	11532.0	12075.8	9701.3
77.5°	311.8	329.9	377.0	540.2	793.9	590.9	732.3	4673.0	5437.9	5343.7	4172.7
80°	188.5	206.6	279.1	348.0	580.0	416.9	402.4	1950.4	1928.7	1830.8	1312.4
82.5°	87.0	101.5	148.6	235.6	406.0	290.0	192.1	696.1	609.0	558.3	369.8
85°	25.4	32.6	87.0	177.6	206.6	141.4	116.0	239.3	250.1	213.9	123.3
87.5°	0.0	3.6	39.9	43.5	61.6	47.1	43.5	61.6	116.0	94.3	39.9
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°	2925.6	2925.6	2925.6	2925.6	2925.6	2925.6	2925.6	2925.6	2925.6	2925.6	2925.6
2.5°	2954.6	2929.2	2867.6	2773.3	2690.0	2646.5	2584.8	2530.5	2501.4	2497.8	2494.2
5°	3027.1	2958.2	2809.6	2639.2	2512.3	2374.6	2280.3	2211.4	2146.2	2084.5	2120.8
7.5°	3125.0	3016.2	2773.3	2552.2	2276.7	2099.0	1932.3	1834.4	1776.4	1722.0	1714.8
10°	3277.3	3139.5	2748.0	2349.2	2033.8	1772.8	1602.4	1461.0	1381.2	1287.0	1323.2
12.5°	3483.9	3237.4	2653.7	2164.3	1758.3	1482.7	1239.8	1011.5	884.6	786.7	790.3
15°	3690.5	3367.9	2566.7	1939.5	1508.1	1145.6	790.3	634.4	598.2	576.4	583.7
17.5°	3893.6	3473.0	2432.6	1711.1	1221.7	728.7	576.4	543.8	525.7	503.9	503.9
20°	4140.1	3541.9	2265.8	1500.9	841.1	540.2	493.0	471.3	442.3	413.3	416.9
22.5°	4379.3	3599.9	2073.7	1232.6	565.5	467.7	413.3	384.3	358.9	329.9	329.9
25°	4618.6	3618.0	1823.5	884.6	456.8	373.4	322.7	282.8	257.4	232.0	235.6
27.5°	4781.8	3505.7	1587.9	565.5	366.2	282.8	224.8	192.1	170.4	145.0	145.0
30°	4876.0	3299.0	1334.1	398.8	275.5	192.1	134.1	101.5	79.8	61.6	58.0
32.5°	4970.3	3132.2	1047.7	304.5	181.3	101.5	50.8	18.1	0.0	0.0	0.0
35°	5158.8	2943.7	703.3	170.4	61.6	3.6	0.0	0.0	0.0	0.0	0.0
37.5°	5278.4	2682.7	322.7	25.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5579.3	2552.2	79.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6068.7	2461.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6605.3	2425.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7319.5	2523.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8073.5	2787.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8900.1	3038.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9621.5	3338.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10948.4	4049.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13330.2	5445.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	16012.9	6482.0	39.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16995.3	6456.6	68.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	16821.3	6101.4	68.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	15918.6	5419.8	61.6	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	13671.0	4477.2	61.6	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10422.7	3487.5	58.0	14.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	6289.9	1856.1	47.1	18.1	7.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2505.1	652.6	36.3	14.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	677.9	195.8	21.8	14.5	10.9	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	177.6	72.5	18.1	14.5	7.3	3.6	0.0	0.0	0.0	0.0	0.0
85°	68.9	29.0	14.5	10.9	10.9	7.3	3.6	0.0	0.0	0.0	0.0
87.5°	21.8	10.9	10.9	7.3	7.3	3.6	3.6	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)