

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: P482978

Luminaire Tested: **IFLD-L-SA7A-827-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482978
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

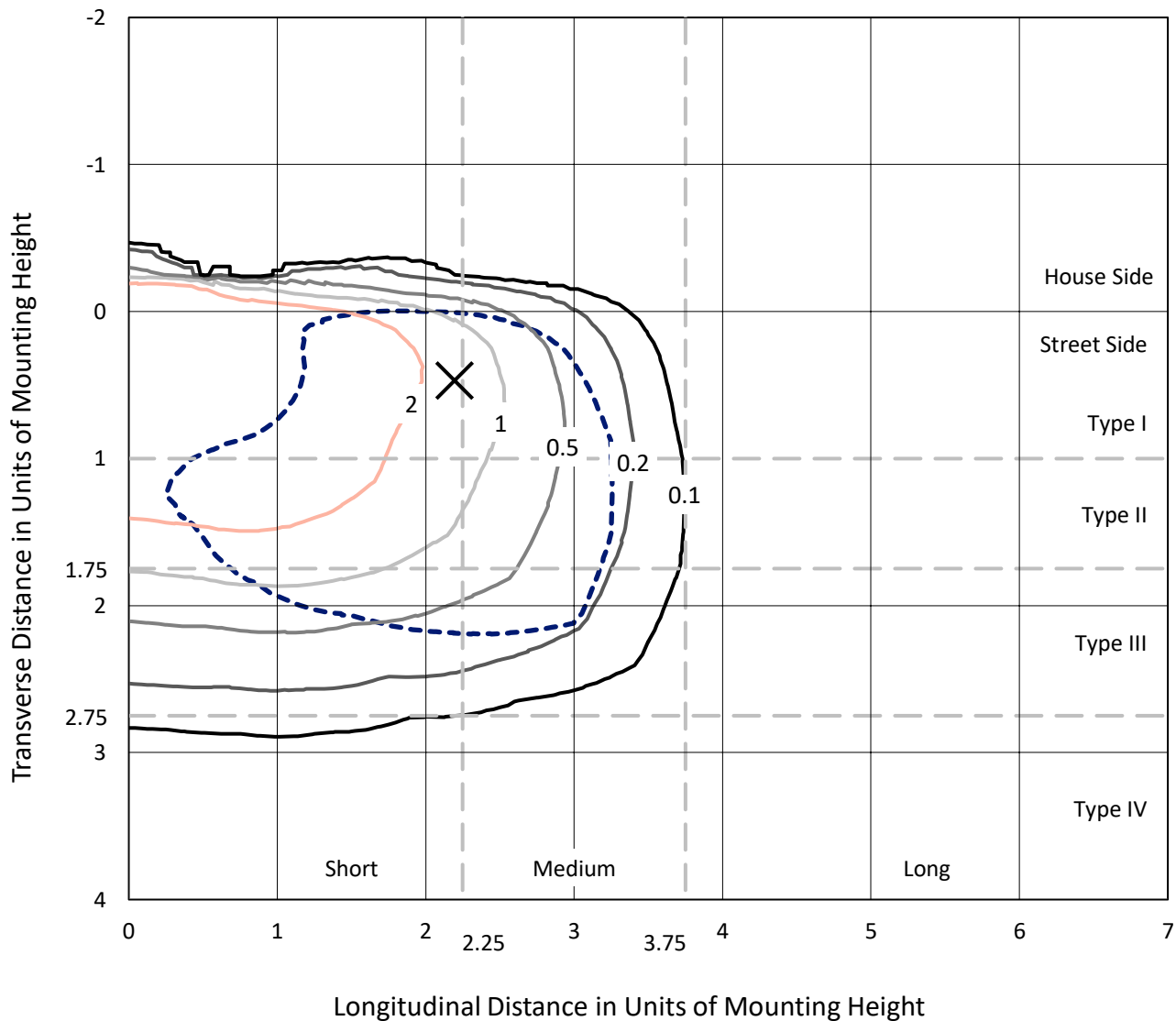
Lumens per Lamp: N/A
Luminaire Lumens: 16493.3 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 217.6
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

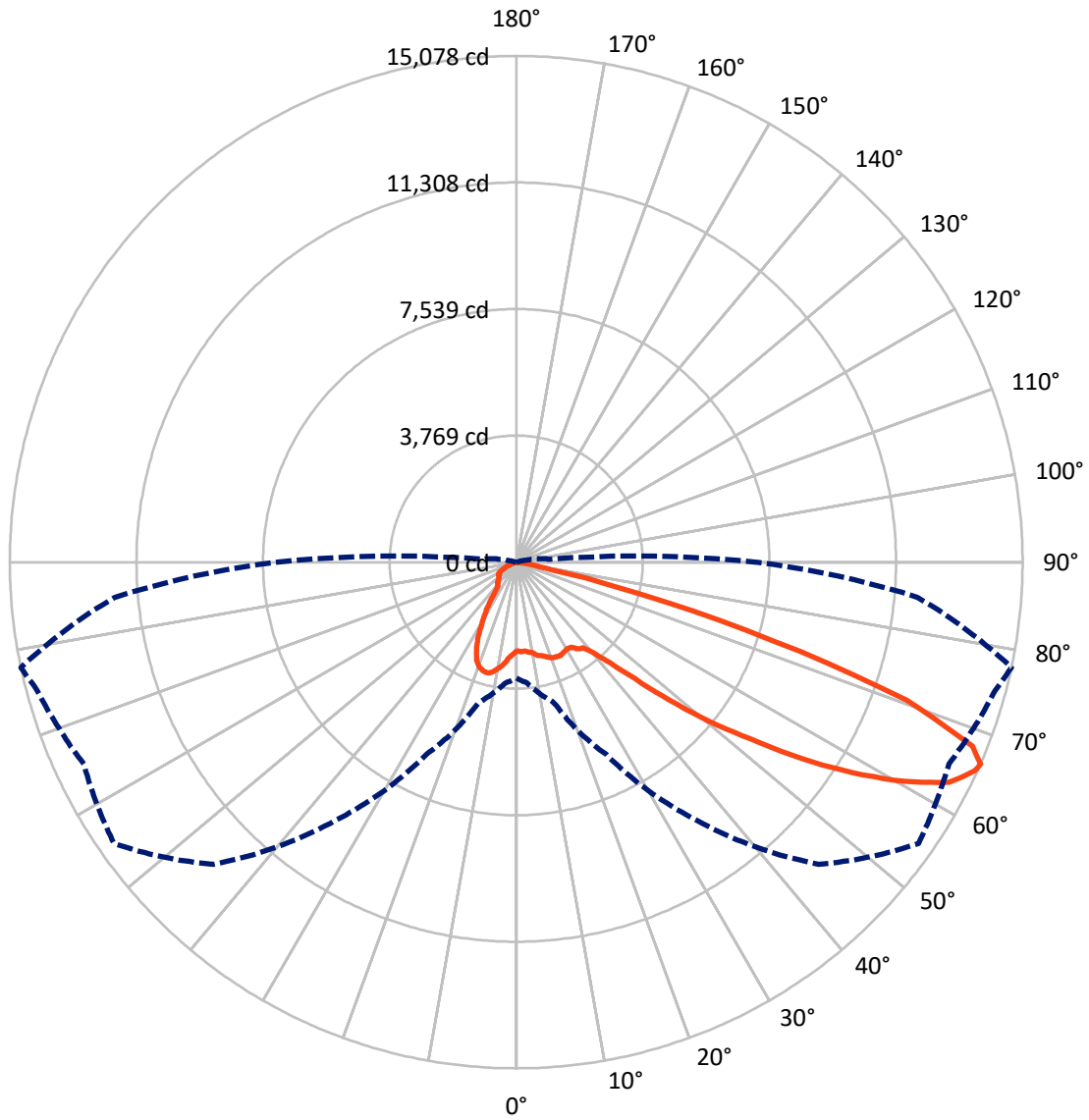
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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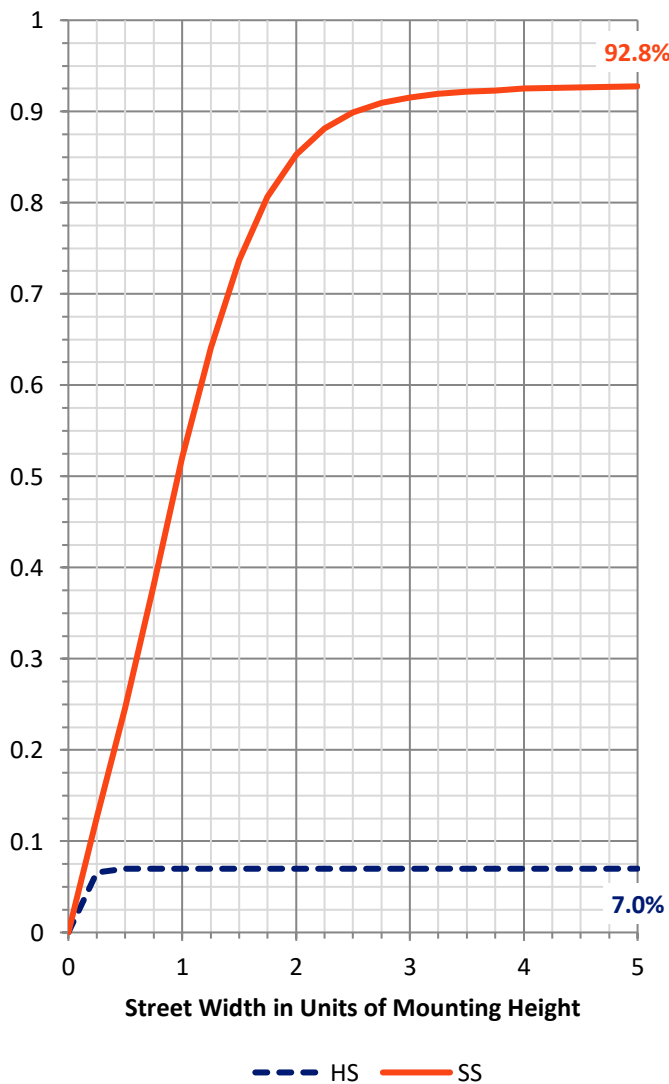
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1159.6	0.0	1159.6
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	15333.7	0.0	15333.7
	% Fixture	93.0	0.0	93.0
Total	Lumens	16493.3	0.0	16493.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.7	1.5
10°-20°	545.5	3.3
20°-30°	779.8	4.7
30°-40°	1334.8	8.1
40°-50°	2409.1	14.6
50°-60°	4119.8	25.0
60°-70°	5070.8	30.7
70°-80°	1917.0	11.6
80°-90°	74.9	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°	16493.3	100.0
0°-180°	16493.3	100.0

Coefficient of Utilization

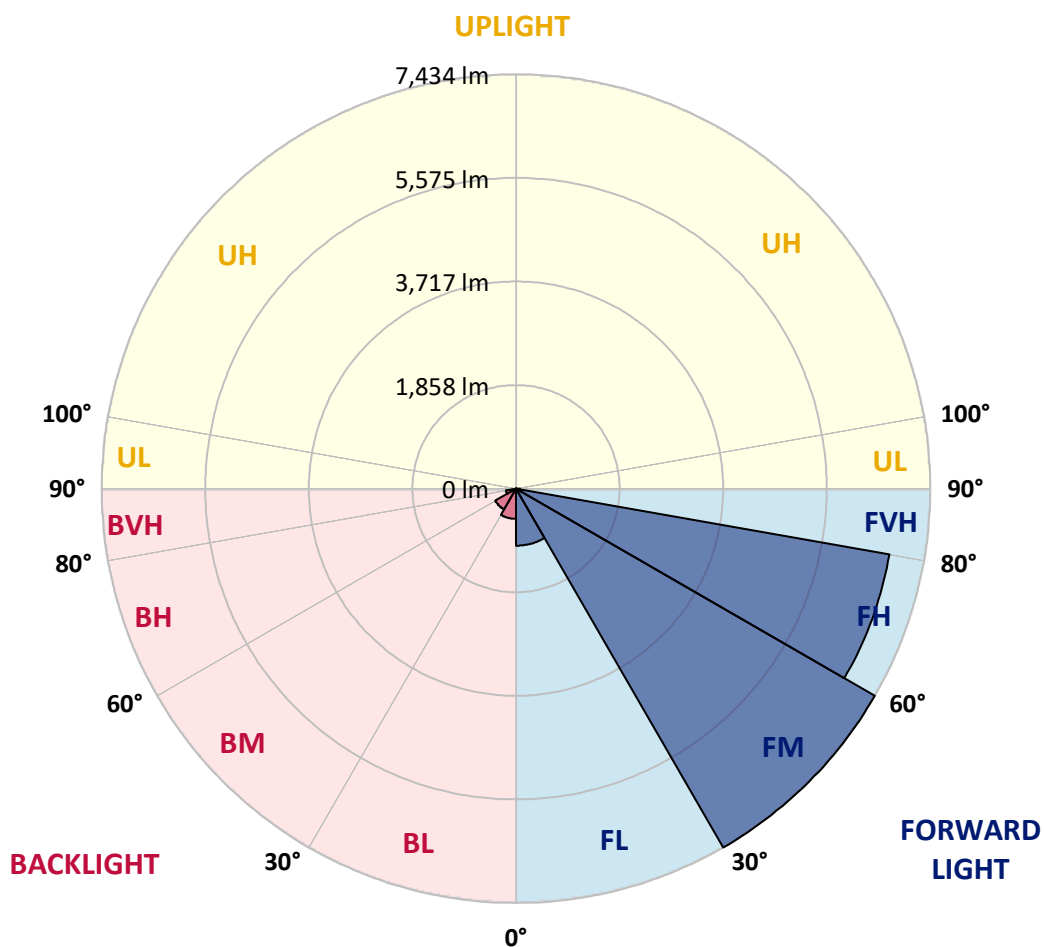


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1023.9	6.2			
FM (30°-60°)	7433.9	45.1			
FH (60°-80°)	6804.1	41.3			G3/7500
FVH (80°-90°)	71.9	0.4			G1/100
BL (0°-30°)	543.1	3.3	B2/1000		
BM (30°-60°)	429.8	2.6	B1/1000		
BH (60°-80°)	183.7	1.1	B1/500		G1/500
BVH (80°-90°)	3.0	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°	2641.7	2641.7	2641.7	2641.7	2641.7	2641.7	2641.7	2641.7	2641.7	2641.7	2641.7
2.5°	2429.9	2407.4	2429.9	2462.3	2479.7	2494.7	2547.0	2591.8	2639.2	2671.6	2661.6
5°	2252.9	2295.3	2300.3	2310.2	2337.6	2427.4	2457.3	2534.5	2651.7	2661.6	2706.5
7.5°	2113.4	2100.9	2133.3	2198.1	2267.9	2320.2	2407.4	2542.0	2664.1	2706.5	2793.7
10°	1911.5	1936.4	1971.3	2036.1	2120.8	2250.4	2404.9	2554.5	2728.9	2743.9	2905.9
12.5°	1801.8	1776.9	1831.7	1899.0	2043.6	2163.2	2352.6	2532.0	2768.8	2851.0	3037.9
15°	1712.1	1724.6	1776.9	1821.8	1941.4	2093.4	2315.2	2586.9	2836.1	2893.4	3177.5
17.5°	1674.7	1667.3	1707.1	1752.0	1899.0	2071.0	2300.3	2589.4	2895.9	2970.7	3272.2
20°	1692.2	1707.1	1694.7	1737.0	1829.2	2003.7	2322.7	2636.7	2940.8	3042.9	3374.4
22.5°	1966.3	1946.4	1846.7	1766.9	1771.9	1976.3	2305.3	2666.6	2980.6	3062.9	3444.2
25°	2681.6	2574.4	2327.7	2021.1	1819.3	1901.5	2285.3	2656.6	2973.1	3075.3	3486.5
27.5°	3401.8	3309.6	3067.9	2591.8	2011.2	1871.6	2215.5	2664.1	2935.8	3030.5	3416.8
30°	4161.9	4211.8	3852.9	3287.2	2514.6	2036.1	2170.7	2624.2	2910.8	2990.6	3431.7
32.5°	4942.0	4922.0	4705.2	4092.1	3234.8	2400.0	2242.9	2664.1	2943.2	3020.5	3518.9
35°	5552.5	5482.8	5263.4	4710.2	3830.5	2948.2	2492.2	2853.5	3085.3	3177.5	3643.5
37.5°	5854.1	5884.0	5756.9	5275.9	4483.4	3456.6	2803.7	2853.5	3130.2	3237.3	3845.4
40°	6088.4	6178.1	6130.7	5976.2	5131.4	4029.8	3147.6	3030.5	3356.9	3558.8	4224.2
42.5°	6370.0	6327.6	6606.7	6464.7	5978.7	4752.6	3750.7	3451.6	3892.8	4087.1	4792.4
45°	6519.5	6681.5	6893.3	7075.2	6763.7	5654.7	4538.2	4196.8	4712.7	4959.4	5637.3
47.5°	6903.3	6968.1	7312.0	7541.3	7401.7	6686.5	5734.5	5285.9	5744.4	6133.2	6604.2
50°	7127.6	7040.4	7521.3	7870.2	7950.0	7541.3	6806.1	6457.2	6970.6	7466.5	7508.9
52.5°	6930.7	7179.9	7660.9	8286.4	8508.2	8303.9	8064.6	7912.6	8274.0	8732.5	8528.2
55°	6240.4	6409.8	7581.2	8742.5	9457.8	9363.1	9584.9	9485.2	9849.0	10335.0	9719.4
57.5°	5684.6	5896.5	6925.7	8979.3	10342.5	10621.6	10900.7	10838.4	11277.0	11837.8	10728.8
60°	5338.2	5460.3	6452.2	8919.4	10865.8	11922.5	12553.0	12114.4	12829.7	13258.3	11518.8
62.5°	4737.6	4814.9	5761.9	8126.9	11022.8	12842.1	13911.2	13315.6	13936.2	14459.5	12087.0
65°	3798.1	4007.4	4789.9	6940.7	9986.1	13011.6	14758.6	14058.3	14658.9	15002.8	12258.9
66°	3456.6	3608.7	4326.4	6312.6	9395.5	12730.0	14616.5	14212.8	14763.6	15077.6	11994.8
67.5°	2868.5	3000.6	3571.3	5418.0	8186.8	12109.4	14716.2	14108.1	14843.3	14651.4	11640.9
70°	1899.0	1983.8	2442.3	3663.5	5702.1	9906.3	13649.6	13290.7	13049.0	12328.7	9101.4
72.5°	887.2	1009.3	1525.2	2220.5	3344.5	6930.7	11130.0	10649.0	9151.2	7999.8	5741.9
75°	401.2	456.1	837.4	1273.5	1500.3	3591.2	7179.9	6484.6	4555.7	3783.1	2514.6
77.5°	216.8	246.7	408.7	605.6	545.8	1258.5	3553.8	2955.7	1435.5	1051.7	730.2
80°	167.0	196.9	341.4	346.4	201.9	326.5	1320.8	914.6	358.9	271.6	174.5
82.5°	87.2	124.6	269.2	224.3	102.2	132.1	408.7	254.2	112.1	89.7	74.8
85°	34.9	54.8	152.0	149.5	59.8	44.9	114.6	77.3	44.9	37.4	34.9
87.5°	2.5	2.5	82.2	57.3	37.4	12.5	17.4	17.4	22.4	19.9	24.9
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°	2641.7	2641.7	2641.7	2641.7	2641.7	2641.7	2641.7	2641.7	2641.7	2641.7	2641.7
2.5°	2706.5	2736.4	2741.4	2823.6	2841.1	2823.6	2868.5	2861.0	2880.9	2866.0	2838.6
5°	2768.8	2811.2	2893.4	2955.7	2955.7	2905.9	2866.0	2813.7	2736.4	2716.5	2701.5
7.5°	2876.0	3010.5	3085.3	3045.4	2965.7	2778.8	2519.6	2330.2	2170.7	2110.9	2083.4
10°	3065.4	3140.1	3227.4	3065.4	2733.9	2337.6	1901.5	1614.9	1390.6	1340.8	1303.4
12.5°	3187.5	3307.1	3356.9	2955.7	2305.3	1714.6	1241.1	917.1	760.1	640.5	620.5
15°	3347.0	3484.0	3381.9	2659.1	1816.8	1124.0	643.0	401.2	326.5	306.5	306.5
17.5°	3456.6	3606.2	3279.7	2290.3	1288.4	598.1	319.0	276.6	271.6	274.1	269.2
20°	3648.5	3738.2	3125.2	1861.6	770.1	306.5	256.7	246.7	241.7	249.2	244.2
22.5°	3720.8	3803.0	2873.5	1348.3	346.4	204.4	191.9	184.4	189.4	186.9	184.4
25°	3715.8	3758.2	2459.8	772.6	102.2	79.7	72.3	72.3	67.3	69.8	67.3
27.5°	3753.2	3648.5	1996.2	229.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3773.1	3471.6	1420.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3783.1	3379.4	914.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3860.4	3195.0	391.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3912.7	2958.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4129.5	2883.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4411.1	2743.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4802.4	2537.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5320.8	2414.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5707.1	2223.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6198.0	2108.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6781.2	2113.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7312.0	2078.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7583.6	1776.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7526.3	1438.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7327.0	1128.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7189.9	999.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6773.7	800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5390.5	548.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3429.2	336.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1580.0	154.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	495.9	94.7	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	129.6	59.8	19.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	67.3	42.4	17.4	7.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.4	17.4	7.5	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	37.4	10.0	5.0	5.0	2.5	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)