

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: P483025

Luminaire Tested: **IFLD-L-SA8D-830-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483025
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-830-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

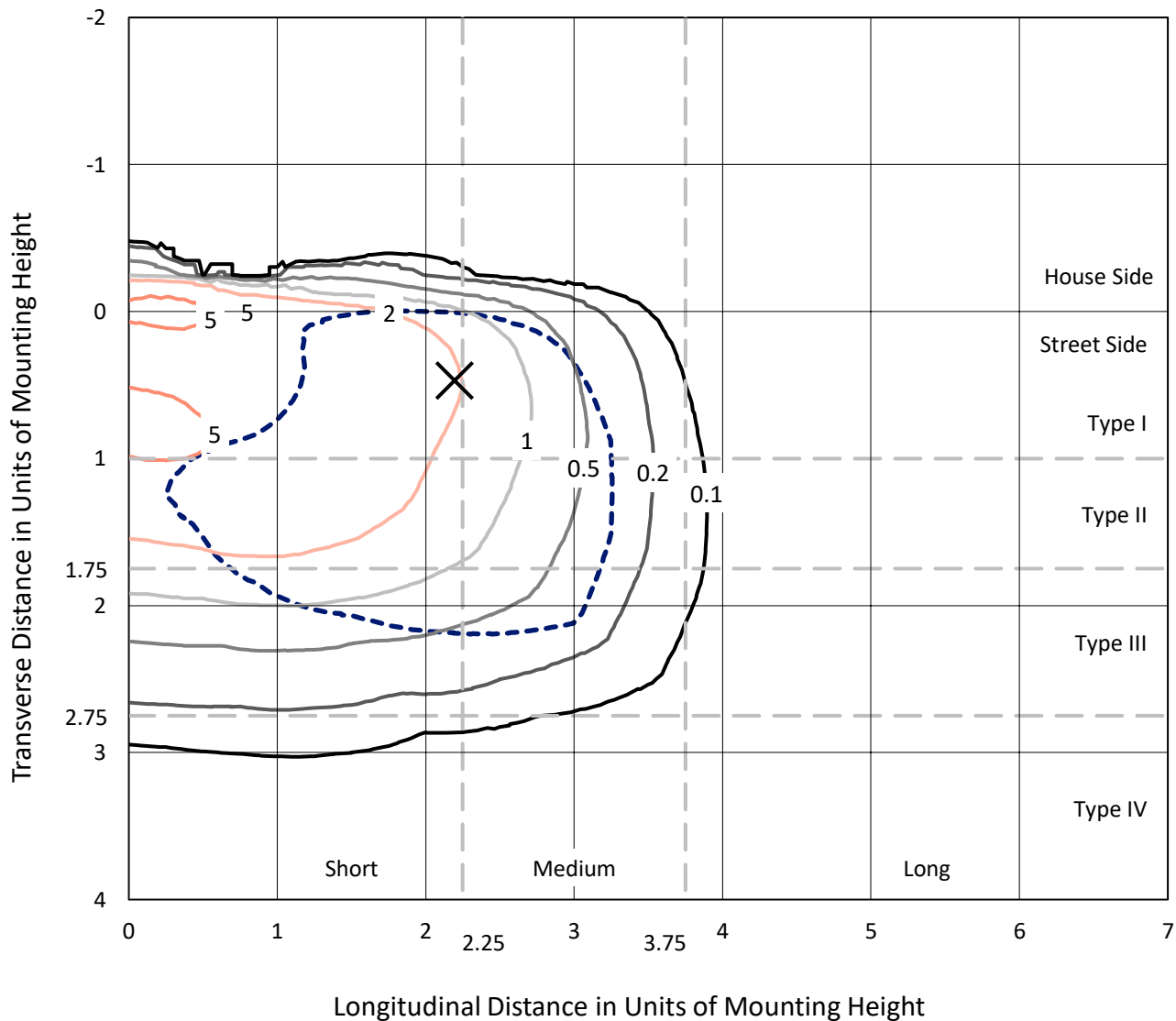
Lumens per Lamp: N/A
Luminaire Lumens: 31753 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

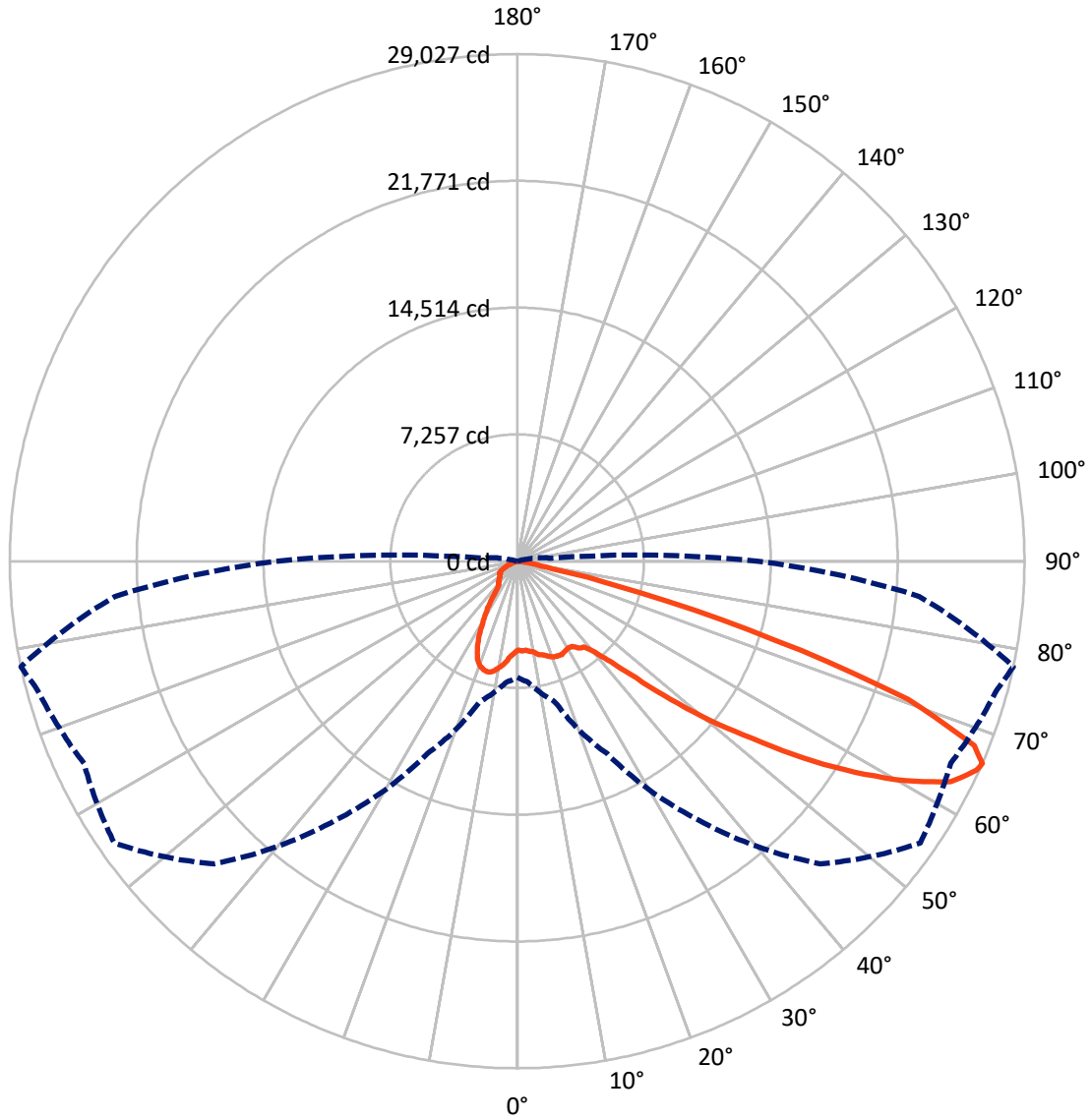
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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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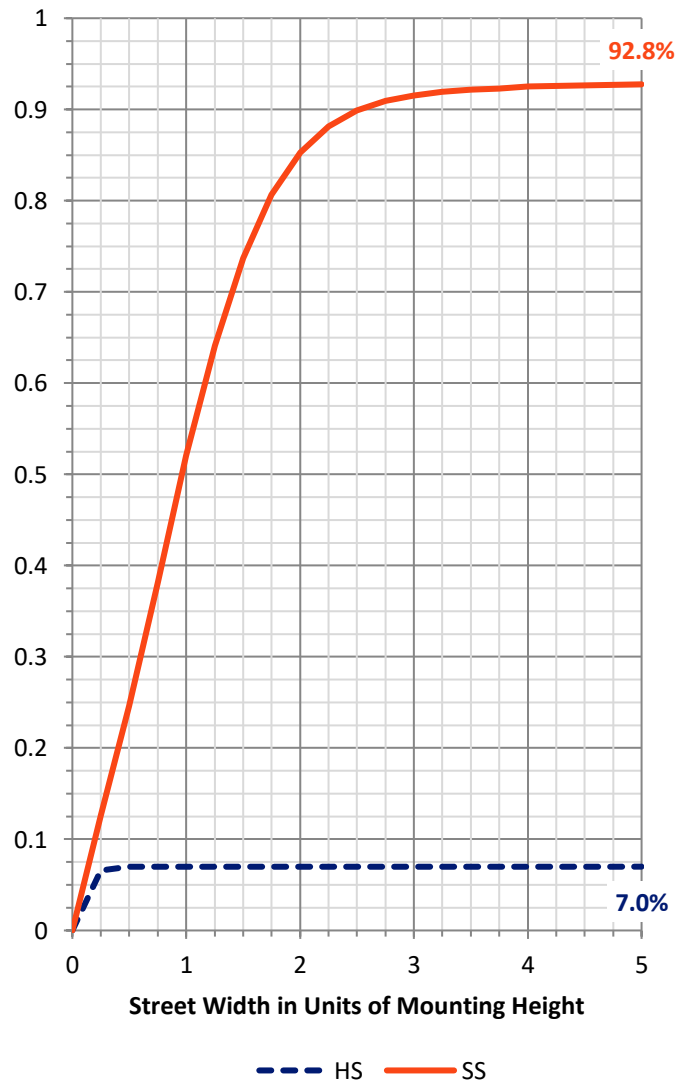
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2232.4	0.0	2232.4
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	29520.6	0.0	29520.6
	% Fixture	93.0	0.0	93.0
Total	Lumens	31753.0	0.0	31753.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.3	1.5
10°-20°	1050.3	3.3
20°-30°	1501.2	4.7
30°-40°	2569.7	8.1
40°-50°	4637.9	14.6
50°-60°	7931.5	25.0
60°-70°	9762.3	30.7
70°-80°	3690.7	11.6
80°-90°	144.2	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°	31753.0	100.0
0°-180°	31753.0	100.0

Coefficient of Utilization

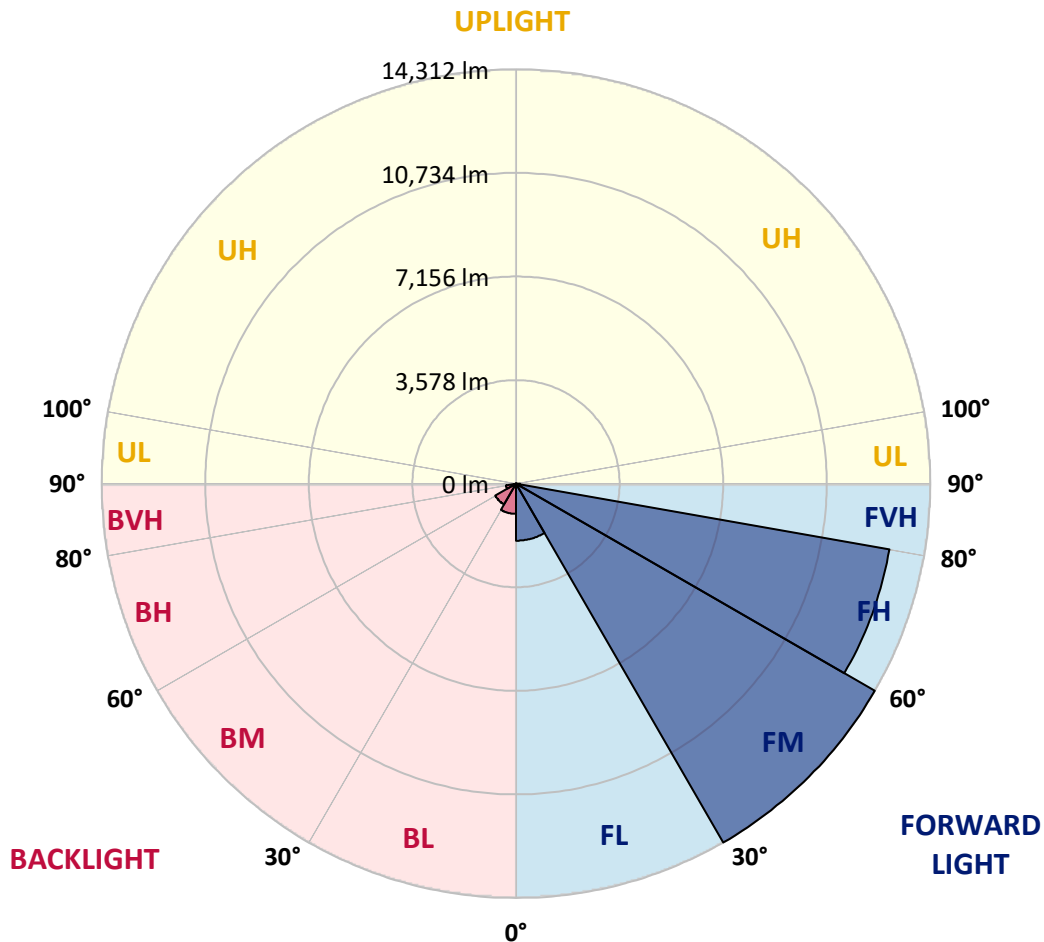


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1971.2	6.2			
FM (30°-60°)	14311.7	45.1			
FH (60°-80°)	13099.3	41.3			G5
FVH (80°-90°)	138.4	0.4			G2/225
BL (0°-30°)	1045.5	3.3	B3/2500		
BM (30°-60°)	827.4	2.6	B1/1000		
BH (60°-80°)	353.7	1.1	B1/500		G1/500
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5085.8	5085.8	5085.8	5085.8	5085.8	5085.8	5085.8	5085.8	5085.8	5085.8	5085.8
2.5°	4678.0	4634.8	4678.0	4740.3	4773.9	4802.7	4903.5	4989.8	5081.0	5143.4	5124.2
5°	4337.3	4418.9	4428.5	4447.7	4500.5	4673.2	4730.8	4879.5	5105.0	5124.2	5210.5
7.5°	4068.6	4044.7	4107.0	4231.8	4366.1	4466.9	4634.8	4893.9	5129.0	5210.5	5378.5
10°	3680.0	3728.0	3795.2	3919.9	4083.0	4332.5	4630.0	4917.9	5253.7	5282.5	5594.4
12.5°	3468.9	3420.9	3526.5	3656.0	3934.3	4164.6	4529.2	4874.7	5330.5	5488.8	5848.7
15°	3296.2	3320.2	3420.9	3507.3	3737.6	4030.3	4457.3	4980.2	5460.0	5570.4	6117.4
17.5°	3224.2	3209.8	3286.6	3372.9	3656.0	3987.1	4428.5	4985.0	5575.2	5719.1	6299.7
20°	3257.8	3286.6	3262.6	3344.2	3521.7	3857.5	4471.7	5076.2	5661.6	5858.3	6496.4
22.5°	3785.6	3747.2	3555.3	3401.7	3411.3	3804.8	4438.1	5133.8	5738.3	5896.6	6630.7
25°	5162.6	4956.3	4481.3	3891.1	3502.5	3660.8	4399.7	5114.6	5723.9	5920.6	6712.3
27.5°	6549.2	6371.6	5906.2	4989.8	3871.9	3603.2	4265.4	5129.0	5652.0	5834.3	6578.0
30°	8012.5	8108.5	7417.6	6328.5	4841.1	3919.9	4179.0	5052.2	5604.0	5757.5	6606.7
32.5°	9514.3	9475.9	9058.5	7878.2	6227.7	4620.4	4318.1	5129.0	5666.3	5815.1	6774.7
35°	10689.8	10555.4	10133.2	9068.1	7374.4	5675.9	4797.9	5493.6	5939.8	6117.4	7014.6
37.5°	11270.3	11327.9	11083.2	10157.2	8631.5	6654.7	5397.7	5493.6	6026.2	6232.5	7403.2
40°	11721.3	11894.1	11802.9	11505.4	9878.9	7758.2	6059.8	5834.3	6462.8	6851.4	8132.5
42.5°	12263.5	12181.9	12719.3	12445.8	11510.2	9149.6	7220.9	6645.1	7494.4	7868.6	9226.4
45°	12551.4	12863.2	13271.1	13621.3	13021.6	10886.5	8737.0	8079.7	9072.9	9547.9	10852.9
47.5°	13290.3	13415.0	14077.1	14518.5	14249.8	12872.8	11040.0	10176.4	11059.2	11807.7	12714.5
50°	13722.1	13554.1	14480.1	15151.8	15305.4	14518.5	13103.1	12431.4	13419.8	14374.6	14456.1
52.5°	13343.0	13822.8	14748.8	15953.1	16380.1	15986.7	15526.1	15233.4	15929.1	16811.9	16418.5
55°	12014.0	12340.3	14595.3	16831.1	18208.1	18025.8	18452.8	18260.9	18961.4	19897.0	18711.9
57.5°	10944.1	11351.9	13333.4	17286.9	19911.4	20448.8	20986.1	20866.2	21710.6	22790.1	20655.1
60°	10277.2	10512.3	12421.8	17171.8	20919.0	22953.3	24167.1	23322.7	24699.7	25525.0	22176.0
62.5°	9120.9	9269.6	11092.8	15646.0	21221.2	24723.7	26782.0	25635.3	26830.0	27837.6	23269.9
65°	7312.0	7715.1	9221.6	13362.2	19225.3	25050.0	28413.3	27065.1	28221.4	28883.5	23601.0
66°	6654.7	6947.4	8329.2	12153.1	18088.2	24507.8	28139.8	27362.6	28422.9	29027.4	23092.4
67.5°	5522.4	5776.7	6875.4	10430.7	15761.2	23313.1	28331.7	27161.1	28576.4	28207.0	22411.1
70°	3656.0	3819.1	4702.0	7052.9	10977.7	19071.8	26278.2	25587.3	25121.9	23735.3	17522.0
72.5°	1708.1	1943.2	2936.3	4275.0	6438.8	13343.0	21427.5	20501.5	17618.0	15401.3	11054.4
75°	772.5	878.0	1612.1	2451.7	2888.4	6913.8	13822.8	12484.2	8770.6	7283.2	4841.1
77.5°	417.4	475.0	786.9	1165.9	1050.7	2423.0	6841.8	5690.3	2763.6	2024.7	1405.8
80°	321.5	379.0	657.3	666.9	388.6	628.5	2542.9	1760.8	690.9	523.0	335.9
82.5°	167.9	239.9	518.2	431.8	196.7	254.3	786.9	489.4	215.9	172.7	143.9
85°	67.2	105.6	292.7	287.9	115.2	86.4	220.7	148.7	86.4	72.0	67.2
87.5°	4.8	4.8	158.3	110.4	72.0	24.0	33.6	33.6	43.2	38.4	48.0
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°	5085.8	5085.8	5085.8	5085.8	5085.8	5085.8	5085.8	5085.8	5085.8	5085.8	5085.8
2.5°	5210.5	5268.1	5277.7	5436.0	5469.6	5436.0	5522.4	5508.0	5546.4	5517.6	5464.8
5°	5330.5	5412.1	5570.4	5690.3	5690.3	5594.4	5517.6	5416.9	5268.1	5229.7	5201.0
7.5°	5536.8	5795.9	5939.8	5863.1	5709.5	5349.7	4850.7	4486.1	4179.0	4063.8	4011.1
10°	5901.4	6045.4	6213.3	5901.4	5263.3	4500.5	3660.8	3109.1	2677.2	2581.3	2509.3
12.5°	6136.5	6366.8	6462.8	5690.3	4438.1	3301.0	2389.4	1765.6	1463.4	1233.1	1194.7
15°	6443.6	6707.5	6510.8	5119.4	3497.7	2163.9	1237.9	772.5	628.5	590.1	590.1
17.5°	6654.7	6942.6	6314.1	4409.3	2480.5	1151.5	614.1	532.6	523.0	527.8	518.2
20°	7024.2	7196.9	6016.6	3584.0	1482.6	590.1	494.2	475.0	465.4	479.8	470.2
22.5°	7163.3	7321.6	5532.0	2595.7	666.9	393.4	369.4	355.0	364.6	359.8	355.0
25°	7153.7	7235.3	4735.6	1487.4	196.7	153.5	139.1	139.1	129.5	134.3	129.5
27.5°	7225.7	7024.2	3843.1	441.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	7264.1	6683.5	2734.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	7283.2	6506.0	1760.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	7432.0	6150.9	753.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7532.7	5695.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7950.2	5551.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8492.3	5282.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9245.6	4884.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	10243.6	4649.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10987.2	4279.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11932.4	4059.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13055.2	4068.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	14077.1	4001.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	14600.1	3420.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14489.7	2768.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14105.9	2173.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	13842.0	1924.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13040.8	1540.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10377.9	1055.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6601.9	647.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3041.9	297.5	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	954.8	182.3	38.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	249.5	115.2	38.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	129.5	81.6	33.6	14.4	9.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	81.6	33.6	14.4	9.6	9.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	72.0	19.2	9.6	9.6	4.8	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)