

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: P483015

Luminaire Tested: **IFLD-M-SA4D-830-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483015
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-830-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

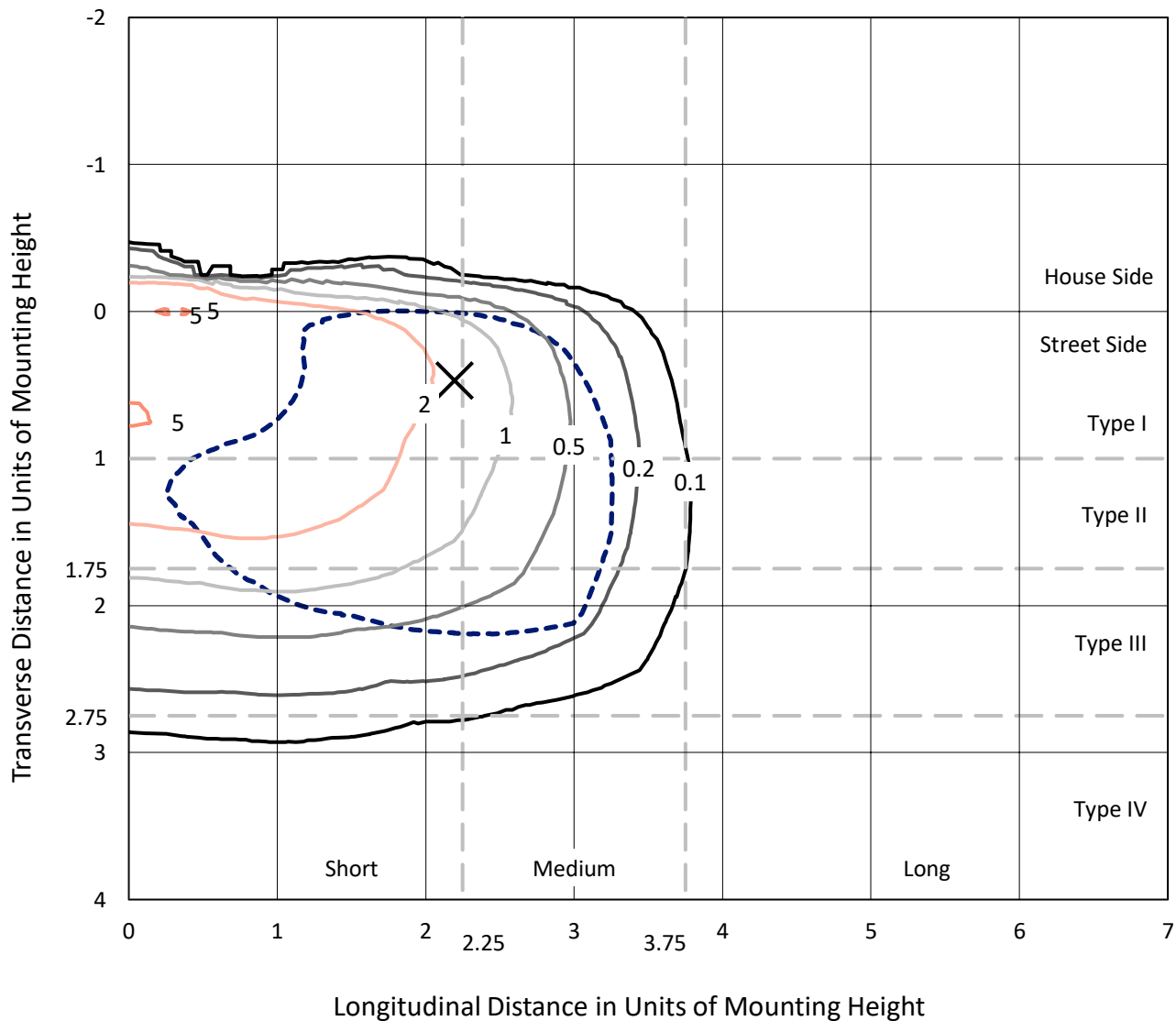
Lumens per Lamp: N/A
Luminaire Lumens: 17818.9 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 249.7
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

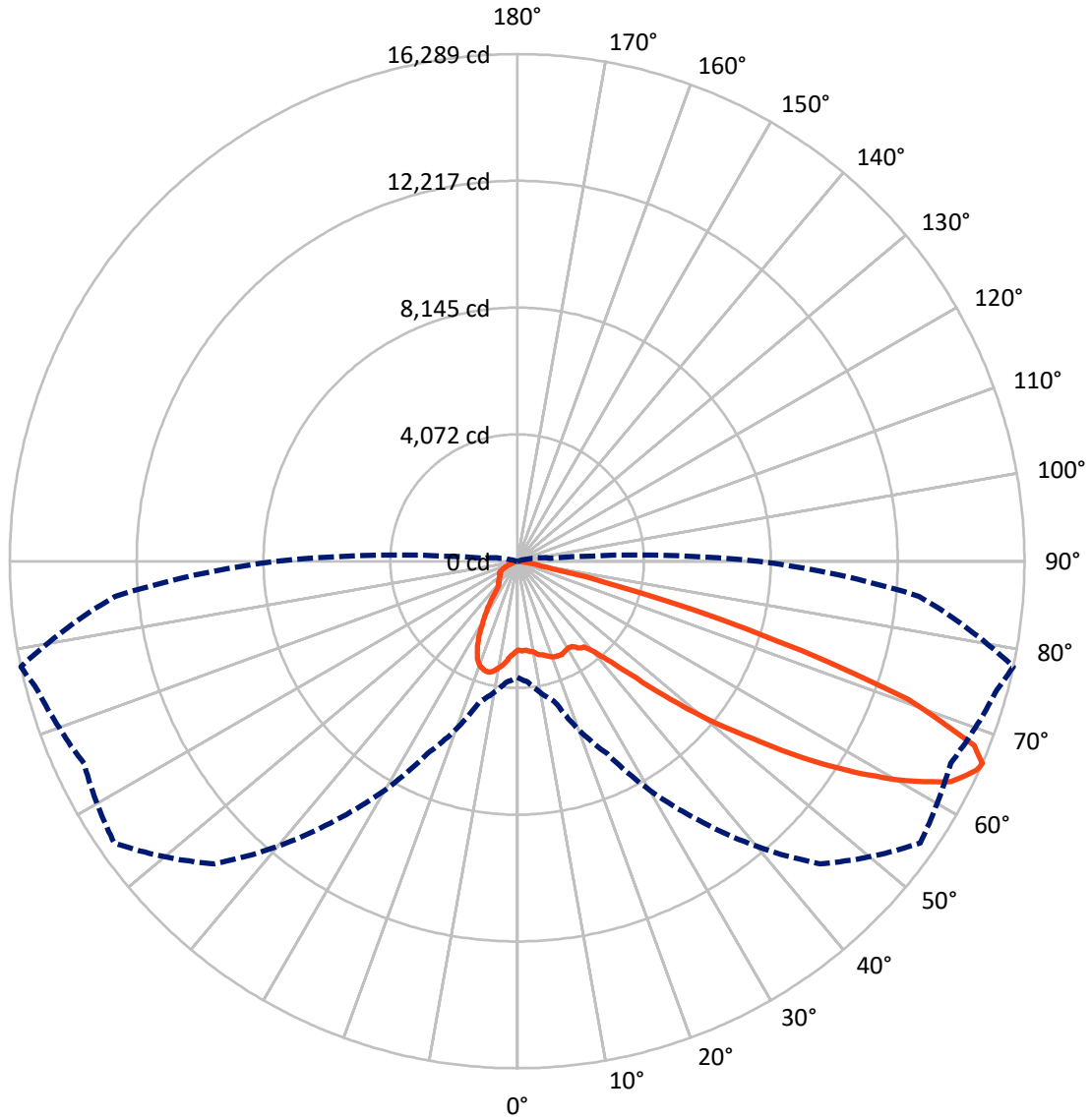
✕ Max cd
 - - - 1/2 Max cd



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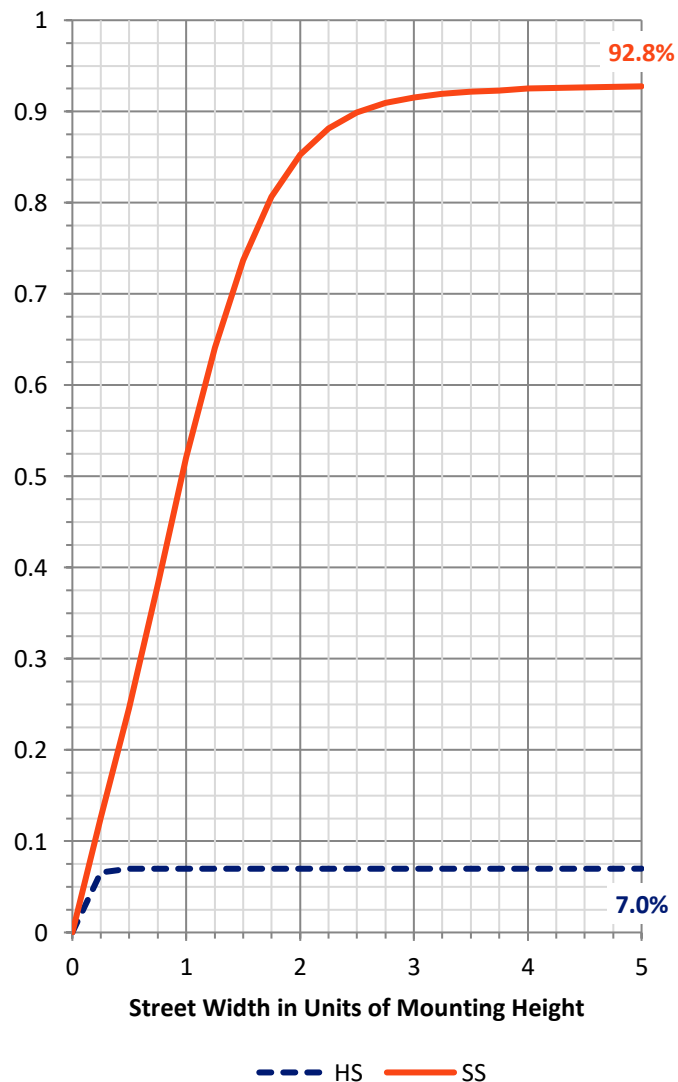
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1252.7	0.0	1252.7
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	16566.1	0.0	16566.1
	% Fixture	93.0	0.0	93.0
Total	Lumens	17818.9	0.0	17818.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.1	1.5
10°-20°	589.4	3.3
20°-30°	842.4	4.7
30°-40°	1442.0	8.1
40°-50°	2602.7	14.6
50°-60°	4450.9	25.0
60°-70°	5478.3	30.7
70°-80°	2071.1	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°	17818.9	100.0
0°-180°	17818.9	100.0

Coefficient of Utilization

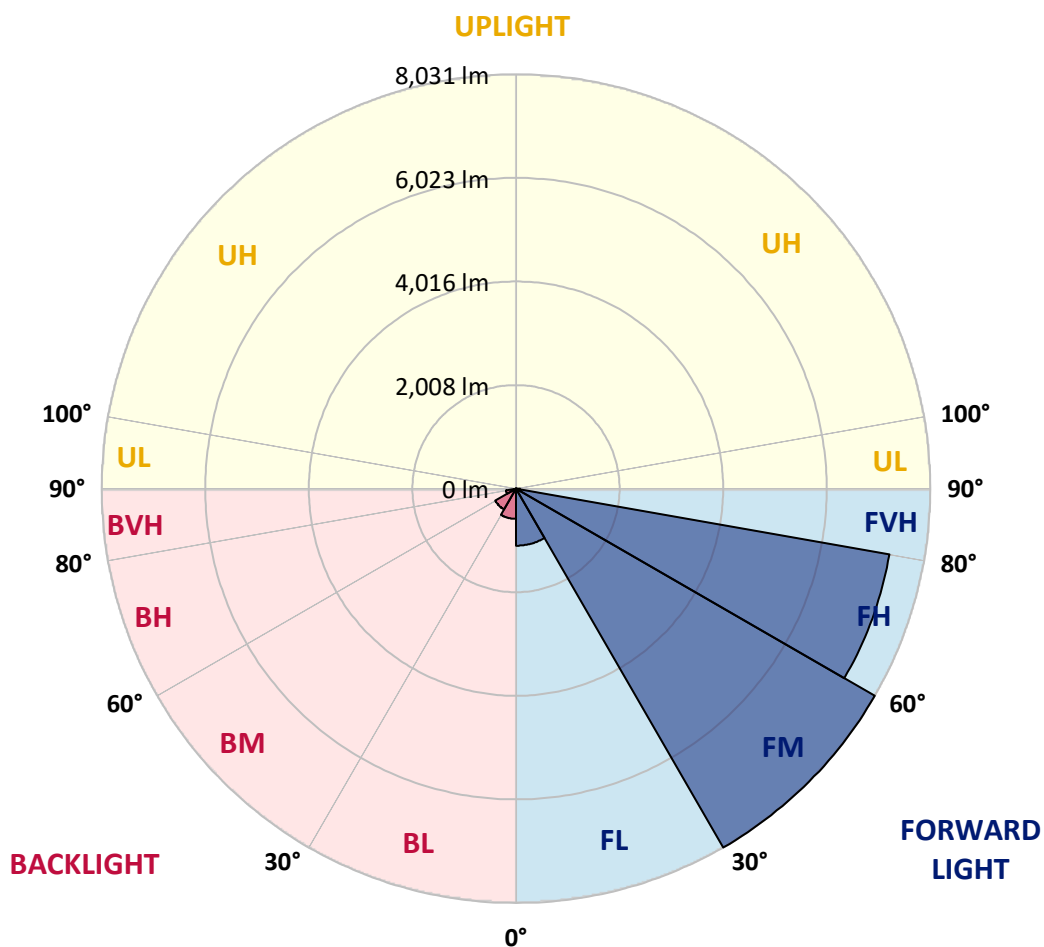


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1106.2	6.2			
FM (30°-60°)	8031.3	45.1			
FH (60°-80°)	7350.9	41.3			G3/7500
FVH (80°-90°)	77.7	0.4			G1/100
BL (0°-30°)	586.7	3.3	B2/1000		
BM (30°-60°)	464.3	2.6	B1/1000		
BH (60°-80°)	198.5	1.1	B1/500		G1/500
BVH (80°-90°)	3.2	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°	2854.0	2854.0	2854.0	2854.0	2854.0	2854.0	2854.0	2854.0	2854.0	2854.0	2854.0
2.5°	2625.1	2600.9	2625.1	2660.1	2679.0	2695.1	2751.7	2800.2	2851.3	2886.3	2875.5
5°	2434.0	2479.7	2485.1	2495.9	2525.5	2622.4	2654.8	2738.2	2864.8	2875.5	2924.0
7.5°	2283.2	2269.7	2304.7	2374.7	2450.1	2506.7	2600.9	2746.3	2878.2	2924.0	3018.2
10°	2065.1	2092.0	2129.7	2199.7	2291.3	2431.3	2598.2	2759.8	2948.2	2964.4	3139.4
12.5°	1946.6	1919.7	1979.0	2051.6	2207.8	2337.0	2541.7	2735.5	2991.3	3080.2	3282.1
15°	1849.7	1863.2	1919.7	1968.2	2097.4	2261.7	2501.3	2794.8	3064.0	3125.9	3432.9
17.5°	1809.3	1801.3	1844.3	1892.8	2051.6	2237.4	2485.1	2797.5	3128.6	3209.4	3535.2
20°	1828.2	1844.3	1830.9	1876.6	1976.3	2164.7	2509.4	2848.6	3177.1	3287.5	3645.6
22.5°	2124.3	2102.8	1995.1	1908.9	1914.3	2135.1	2490.5	2880.9	3220.2	3309.0	3721.0
25°	2897.1	2781.3	2514.8	2183.6	1965.5	2054.3	2469.0	2870.2	3212.1	3322.5	3766.7
27.5°	3675.2	3575.6	3314.4	2800.2	2172.8	2022.0	2393.6	2878.2	3171.7	3274.0	3691.4
30°	4496.4	4550.2	4162.5	3551.3	2716.7	2199.7	2345.1	2835.2	3144.8	3230.9	3707.5
32.5°	5339.1	5317.6	5083.4	4421.0	3494.8	2592.8	2423.2	2878.2	3179.8	3263.3	3801.7
35°	5998.8	5923.4	5686.5	5088.7	4138.3	3185.2	2692.5	3082.9	3333.3	3432.9	3936.4
37.5°	6324.6	6356.9	6219.6	5699.9	4843.7	3734.4	3029.0	3082.9	3381.7	3497.5	4154.5
40°	6577.7	6674.6	6623.4	6456.5	5543.8	4353.7	3400.6	3274.0	3626.7	3844.8	4563.7
42.5°	6881.9	6836.1	7137.7	6984.2	6459.2	5134.5	4052.1	3729.0	4205.6	4415.6	5177.6
45°	7043.5	7218.5	7447.3	7643.9	7307.3	6109.2	4903.0	4534.1	5091.4	5358.0	6090.3
47.5°	7458.1	7528.1	7899.7	8147.4	7996.6	7223.9	6195.3	5710.7	6206.1	6626.1	7135.0
50°	7700.4	7606.2	8125.8	8502.8	8588.9	8147.4	7353.1	6976.1	7530.8	8066.6	8112.4
52.5°	7487.7	7757.0	8276.6	8952.4	9192.0	8971.3	8712.8	8548.5	8938.9	9434.4	9213.6
55°	6741.9	6925.0	8190.4	9445.1	10217.9	10115.5	10355.2	10247.5	10640.6	11165.6	10500.6
57.5°	6141.5	6370.3	7482.3	9700.9	11173.7	11475.2	11776.8	11709.5	12183.4	12789.2	11591.0
60°	5767.2	5899.2	6970.8	9636.3	11739.1	12880.7	13561.9	13088.0	13860.7	14323.9	12444.5
62.5°	5118.4	5201.8	6225.0	8780.1	11908.7	13874.2	15029.3	14385.8	15056.2	15621.6	13058.4
65°	4103.3	4329.5	5174.9	7498.5	10788.7	14057.3	15944.7	15188.1	15837.0	16208.6	13244.2
66°	3734.4	3898.7	4674.1	6820.0	10150.5	13753.1	15791.2	15355.1	15950.1	16289.3	12958.8
67.5°	3099.0	3241.7	3858.3	5853.4	8844.7	13082.6	15898.9	15242.0	16036.3	15828.9	12576.4
70°	2051.6	2143.2	2638.6	3957.9	6160.3	10702.5	14746.6	14358.9	14097.7	13319.6	9832.8
72.5°	958.5	1090.4	1647.8	2399.0	3613.3	7487.7	12024.5	11504.9	9886.7	8642.8	6203.4
75°	433.5	492.7	904.7	1375.8	1620.9	3879.8	7757.0	7005.8	4921.8	4087.1	2716.7
77.5°	234.2	266.6	441.6	654.3	589.6	1359.7	3839.4	3193.2	1550.9	1136.2	788.9
80°	180.4	212.7	368.9	374.3	218.1	352.7	1427.0	988.1	387.7	293.5	188.5
82.5°	94.2	134.6	290.8	242.3	110.4	142.7	441.6	274.6	121.2	96.9	80.8
85°	37.7	59.2	164.2	161.5	64.6	48.5	123.9	83.5	48.5	40.4	37.7
87.5°	2.7	2.7	88.9	61.9	40.4	13.5	18.8	18.8	24.2	21.5	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°	2854.0	2854.0	2854.0	2854.0	2854.0	2854.0	2854.0	2854.0	2854.0	2854.0	2854.0
2.5°	2924.0	2956.3	2961.7	3050.5	3069.4	3050.5	3099.0	3090.9	3112.5	3096.3	3066.7
5°	2991.3	3037.1	3125.9	3193.2	3193.2	3139.4	3096.3	3039.8	2956.3	2934.8	2918.6
7.5°	3107.1	3252.5	3333.3	3290.2	3204.0	3002.1	2722.1	2517.4	2345.1	2280.5	2250.9
10°	3311.7	3392.5	3486.7	3311.7	2953.6	2525.5	2054.3	1744.7	1502.4	1448.5	1408.2
12.5°	3443.6	3572.9	3626.7	3193.2	2490.5	1852.4	1340.8	990.8	821.2	692.0	670.4
15°	3616.0	3764.0	3653.7	2872.8	1962.8	1214.3	694.7	433.5	352.7	331.2	331.2
17.5°	3734.4	3896.0	3543.3	2474.4	1392.0	646.2	344.6	298.9	293.5	296.2	290.8
20°	3941.8	4038.7	3376.3	2011.3	832.0	331.2	277.3	266.6	261.2	269.2	263.9
22.5°	4019.8	4108.7	3104.4	1456.6	374.3	220.8	207.3	199.2	204.6	201.9	199.2
25°	4014.4	4060.2	2657.5	834.7	110.4	86.2	78.1	78.1	72.7	75.4	72.7
27.5°	4054.8	3941.8	2156.7	247.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4076.4	3750.6	1534.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4087.1	3651.0	988.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4170.6	3451.7	422.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4227.2	3195.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4461.4	3115.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4765.6	2964.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5188.4	2740.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5748.4	2609.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6165.7	2401.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6696.1	2277.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7326.2	2283.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7899.7	2245.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8193.1	1919.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8131.2	1553.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7915.8	1219.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7767.7	1079.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7318.1	864.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5823.8	592.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3704.8	363.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1707.0	166.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	535.8	102.3	21.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	140.0	64.6	21.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	72.7	45.8	18.8	8.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	45.8	18.8	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)