

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: P482780

Luminaire Tested: **IFLD-M-SA4C-730-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482780
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-730-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

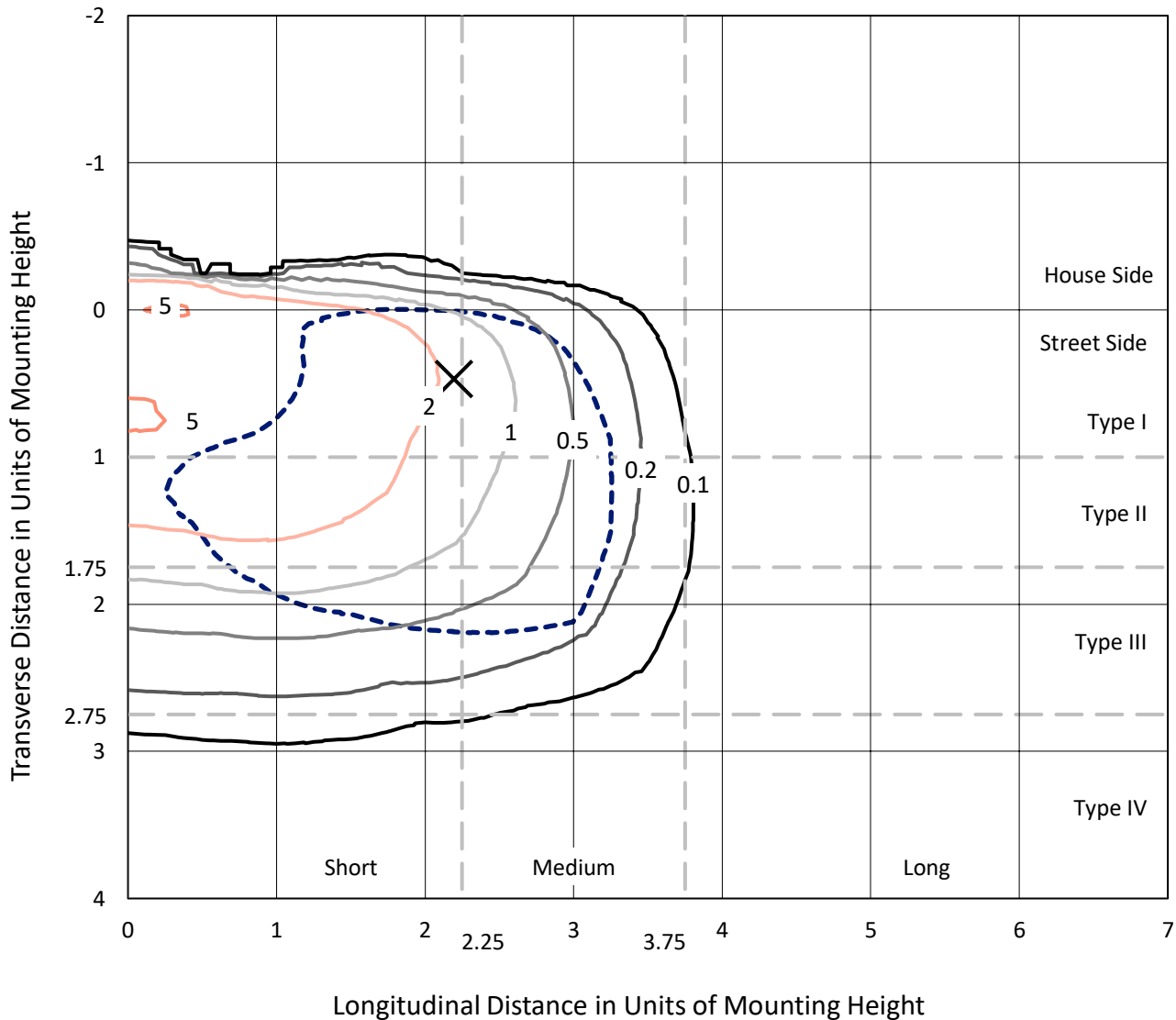
Lumens per Lamp: N/A
Luminaire Lumens: 18558.4 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1
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

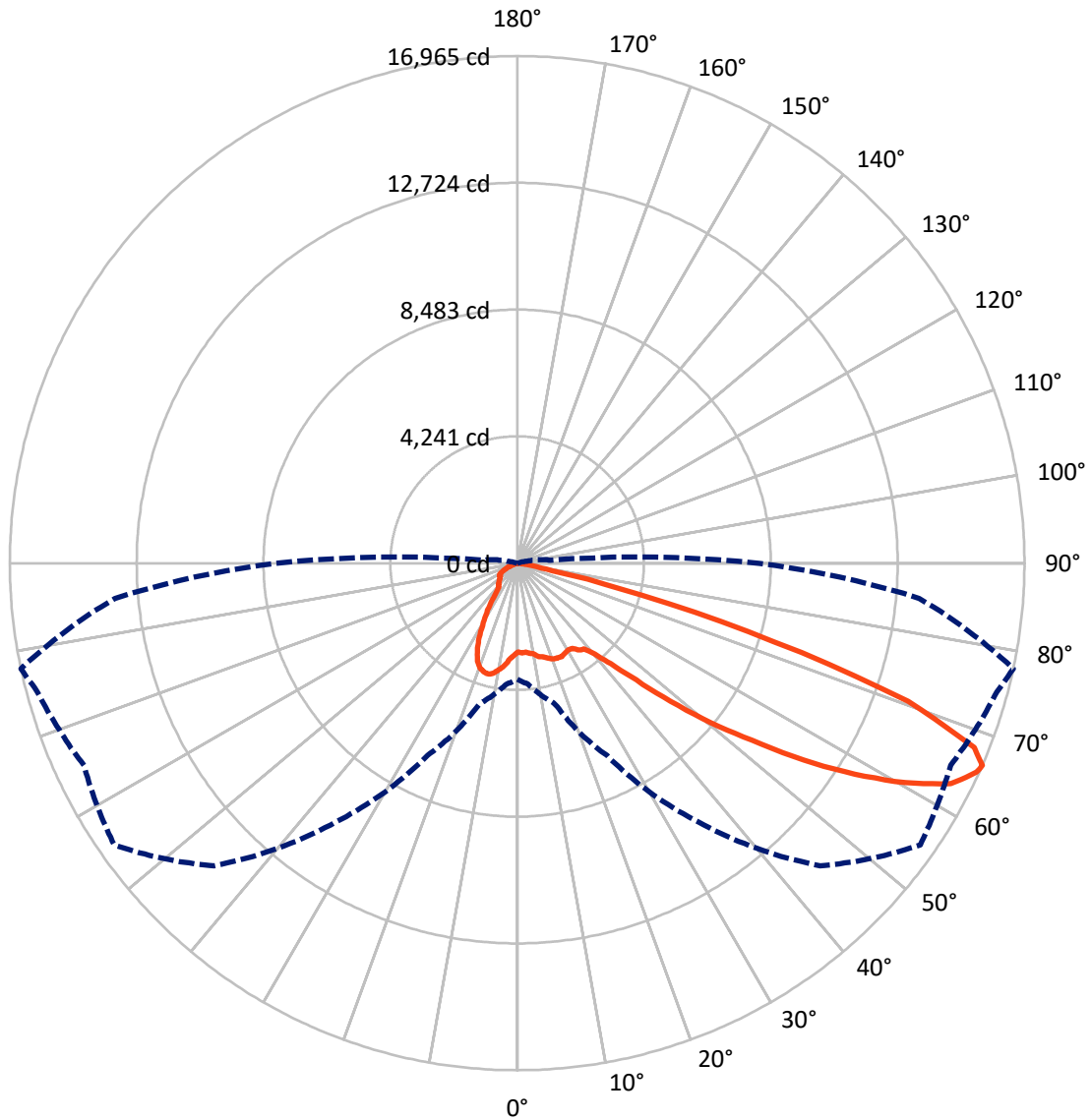
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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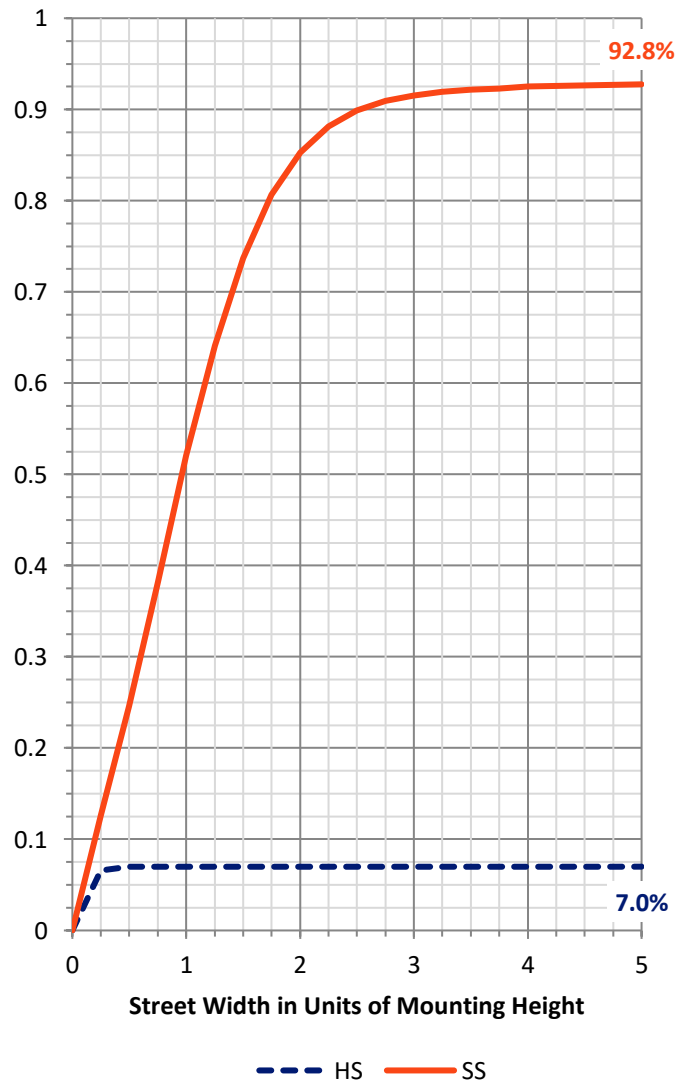
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1304.7	0.0	1304.7
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	17253.6	0.0	17253.6
	% Fixture	93.0	0.0	93.0
Total	Lumens	18558.4	0.0	18558.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.9	1.5
10°-20°	613.9	3.3
20°-30°	877.4	4.7
30°-40°	1501.9	8.1
40°-50°	2710.7	14.6
50°-60°	4635.6	25.0
60°-70°	5705.7	30.7
70°-80°	2157.1	11.6
80°-90°	84.3	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°	18558.4	100.0
0°-180°	18558.4	100.0

Coefficient of Utilization

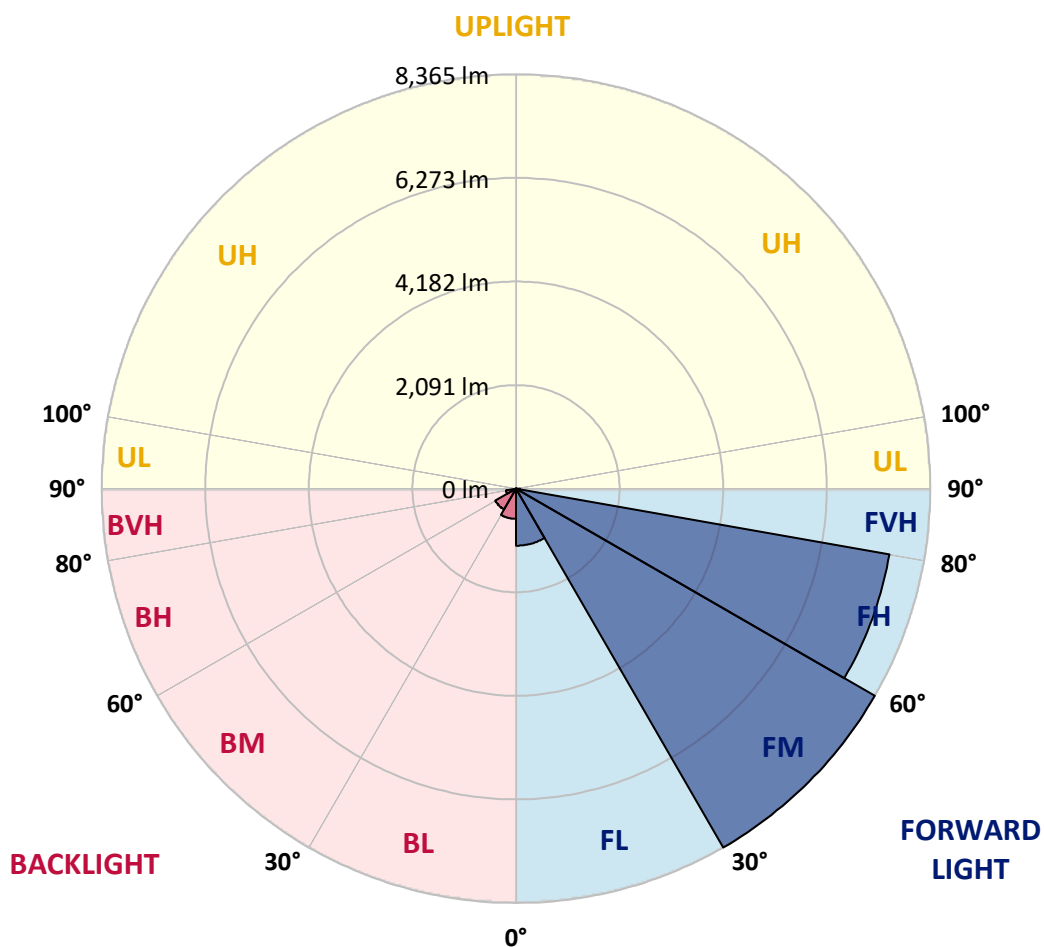


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1152.1	6.2			
FM (30°-60°)	8364.6	45.1			
FH (60°-80°)	7656.0	41.3			G4/12000
FVH (80°-90°)	80.9	0.4			G1/100
BL (0°-30°)	611.1	3.3	B2/1000		
BM (30°-60°)	483.6	2.6	B1/1000		
BH (60°-80°)	206.7	1.1	B1/500		G1/500
BVH (80°-90°)	3.4	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°	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4
2.5°	2734.1	2708.9	2734.1	2770.5	2790.2	2807.0	2865.9	2916.4	2969.6	3006.1	2994.9
5°	2535.0	2582.7	2588.3	2599.5	2630.3	2731.3	2764.9	2851.9	2983.7	2994.9	3045.4
7.5°	2378.0	2363.9	2400.4	2473.3	2551.8	2610.7	2708.9	2860.3	2997.7	3045.4	3143.5
10°	2150.8	2178.9	2218.1	2291.0	2386.4	2532.2	2706.1	2874.3	3070.6	3087.4	3269.7
12.5°	2027.4	1999.4	2061.1	2136.8	2299.4	2434.0	2647.2	2849.1	3115.5	3208.0	3418.3
15°	1926.5	1940.5	1999.4	2049.9	2184.5	2355.5	2605.1	2910.8	3191.2	3255.7	3575.4
17.5°	1884.4	1876.0	1920.9	1971.4	2136.8	2330.3	2588.3	2913.6	3258.5	3342.6	3681.9
20°	1904.0	1920.9	1906.9	1954.5	2058.3	2254.6	2613.5	2966.8	3309.0	3423.9	3796.9
22.5°	2212.5	2190.1	2077.9	1988.2	1993.8	2223.7	2593.9	3000.5	3353.8	3446.4	3875.4
25°	3017.3	2896.7	2619.1	2274.2	2047.1	2139.6	2571.4	2989.3	3345.4	3460.4	3923.1
27.5°	3827.7	3724.0	3452.0	2916.4	2263.0	2106.0	2492.9	2997.7	3303.3	3409.9	3844.6
30°	4683.0	4739.1	4335.3	3698.7	2829.4	2291.0	2442.5	2952.8	3275.3	3365.0	3861.4
32.5°	5560.7	5538.3	5294.3	4604.5	3639.8	2700.4	2523.8	2997.7	3311.8	3398.7	3959.5
35°	6247.8	6169.2	5922.5	5299.9	4310.1	3317.4	2804.2	3210.8	3471.6	3575.4	4099.7
37.5°	6587.1	6620.7	6477.7	5936.5	5044.8	3889.4	3154.7	3210.8	3522.1	3642.7	4326.9
40°	6850.7	6951.6	6898.3	6724.5	5773.8	4534.4	3541.7	3409.9	3777.3	4004.4	4753.1
42.5°	7167.5	7119.9	7433.9	7274.1	6727.3	5347.6	4220.3	3883.8	4380.2	4598.9	5392.5
45°	7335.8	7518.1	7756.4	7961.1	7610.6	6362.7	5106.4	4722.3	5302.7	5580.4	6343.1
47.5°	7767.6	7840.5	8227.5	8485.5	8328.5	7523.7	6452.5	5947.7	6463.7	6901.1	7431.1
50°	8020.0	7921.9	8463.1	8855.7	8945.4	8485.5	7658.3	7265.7	7843.3	8401.4	8449.0
52.5°	7798.5	8078.9	8620.1	9324.0	9573.5	9343.6	9074.4	8903.3	9309.9	9825.9	9596.0
55°	7021.7	7212.4	8530.4	9837.1	10641.9	10535.4	10784.9	10672.8	11082.2	11629.0	10936.4
57.5°	6396.4	6634.7	7792.9	10103.5	11637.4	11951.5	12265.6	12195.5	12689.0	13319.9	12072.1
60°	6006.6	6144.0	7260.1	10036.2	12226.3	13415.3	14124.7	13631.2	14436.0	14918.3	12961.0
62.5°	5330.8	5417.7	6483.3	9144.5	12403.0	14450.0	15653.0	14982.8	15681.1	16270.0	13600.4
65°	4273.6	4509.1	5389.7	7809.7	11236.4	14640.7	16606.5	15818.5	16494.3	16881.3	13793.8
66°	3889.4	4060.5	4868.1	7103.0	10571.8	14323.8	16446.6	15992.3	16612.1	16965.4	13496.6
67.5°	3227.6	3376.3	4018.4	6096.3	9211.8	13625.6	16558.8	15874.6	16701.8	16485.9	13098.4
70°	2136.8	2232.1	2748.1	4122.2	6416.0	11146.7	15358.6	14954.8	14682.8	13872.4	10240.9
72.5°	998.3	1135.7	1716.2	2498.5	3763.2	7798.5	12523.5	11982.3	10297.0	9001.5	6460.9
75°	451.5	513.2	942.2	1432.9	1688.1	4040.8	8078.9	7296.5	5126.1	4256.8	2829.4
77.5°	244.0	277.6	459.9	681.4	614.1	1416.1	3998.8	3325.8	1615.2	1183.4	821.6
80°	187.9	221.5	384.2	389.8	227.1	367.3	1486.2	1029.1	403.8	305.7	196.3
82.5°	98.1	140.2	302.9	252.4	115.0	148.6	459.9	286.0	126.2	101.0	84.1
85°	39.3	61.7	171.1	168.3	67.3	50.5	129.0	86.9	50.5	42.1	39.3
87.5°	2.8	2.8	92.5	64.5	42.1	14.0	19.6	19.6	25.2	22.4	28.0
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°	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4
2.5°	3045.4	3079.0	3084.6	3177.2	3196.8	3177.2	3227.6	3219.2	3241.7	3224.8	3194.0
5°	3115.5	3163.1	3255.7	3325.8	3325.8	3269.7	3224.8	3165.9	3079.0	3056.6	3039.7
7.5°	3236.0	3387.5	3471.6	3426.7	3337.0	3126.7	2835.0	2621.9	2442.5	2375.2	2344.3
10°	3449.2	3533.3	3631.4	3449.2	3076.2	2630.3	2139.6	1817.1	1564.7	1508.7	1466.6
12.5°	3586.6	3721.2	3777.3	3325.8	2593.9	1929.3	1396.5	1031.9	855.3	720.7	698.2
15°	3766.0	3920.3	3805.3	2992.1	2044.3	1264.7	723.5	451.5	367.3	344.9	344.9
17.5°	3889.4	4057.7	3690.3	2577.1	1449.8	673.0	358.9	311.3	305.7	308.5	302.9
20°	4105.3	4206.3	3516.5	2094.7	866.5	344.9	288.8	277.6	272.0	280.4	274.8
22.5°	4186.7	4279.2	3233.2	1517.1	389.8	229.9	215.9	207.5	213.1	210.3	207.5
25°	4181.1	4228.7	2767.7	869.3	115.0	89.7	81.3	81.3	75.7	78.5	75.7
27.5°	4223.1	4105.3	2246.2	258.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4245.6	3906.2	1598.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4256.8	3802.5	1029.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4343.7	3595.0	440.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4402.6	3328.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4646.6	3244.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4963.4	3087.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5403.7	2854.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5987.0	2717.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6421.6	2501.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6974.0	2372.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7630.2	2378.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8227.5	2338.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8533.2	1999.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8468.7	1618.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8244.3	1270.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8090.1	1124.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7621.8	900.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6065.5	616.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3858.6	378.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1777.9	173.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	558.0	106.6	22.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	145.8	67.3	22.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	75.7	47.7	19.6	8.4	5.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	47.7	19.6	8.4	5.6	5.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	42.1	11.2	5.6	5.6	2.8	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)