

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: P482742

Luminaire Tested: **IFLD-M-SA4D-727-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482742  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-727-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

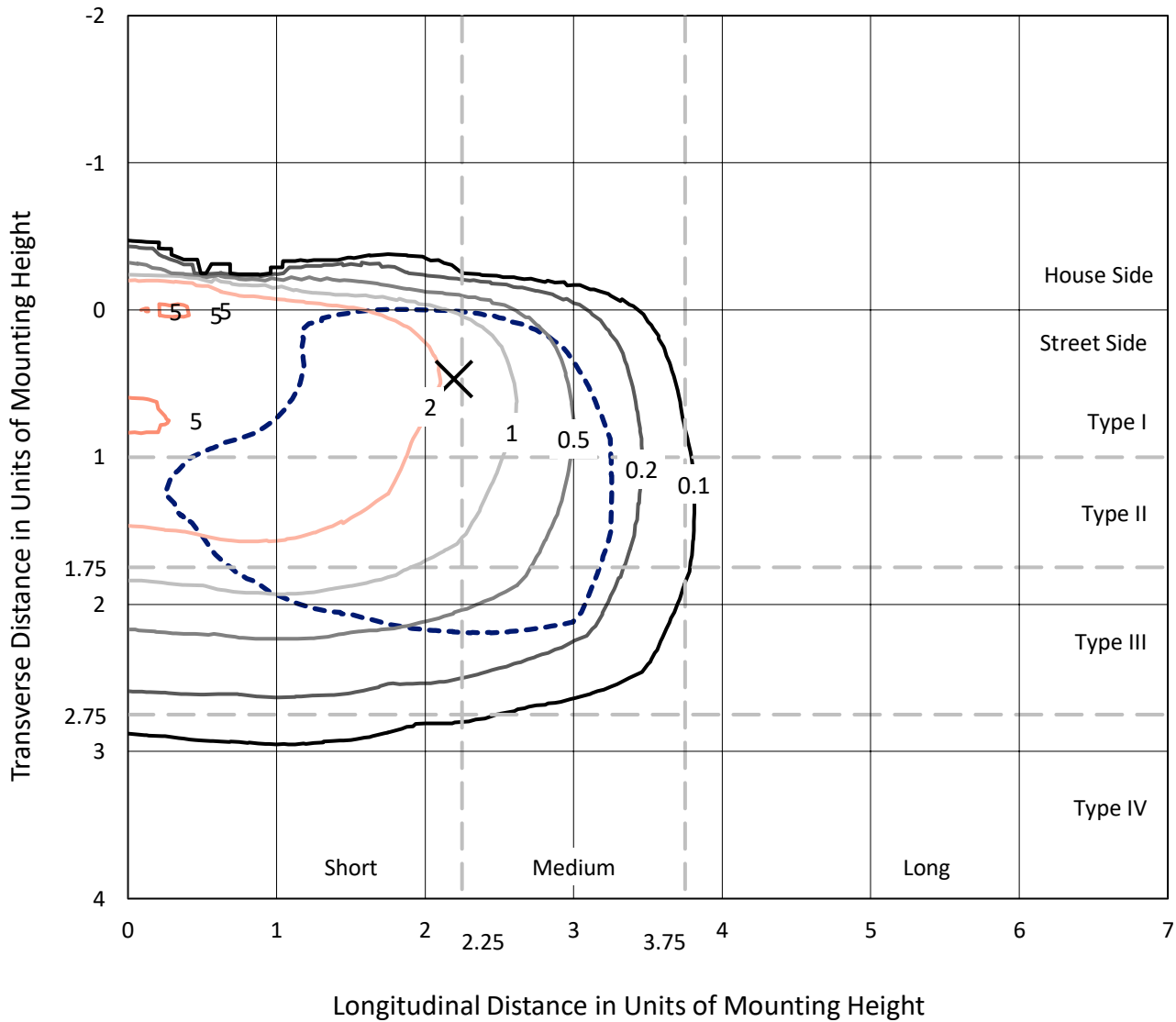
Lumens per Lamp: N/A  
Luminaire Lumens: 18754 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

REPORT NUMBER: P482742  
 CATALOG NUMBER: IFLD-M-SA4D-727-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

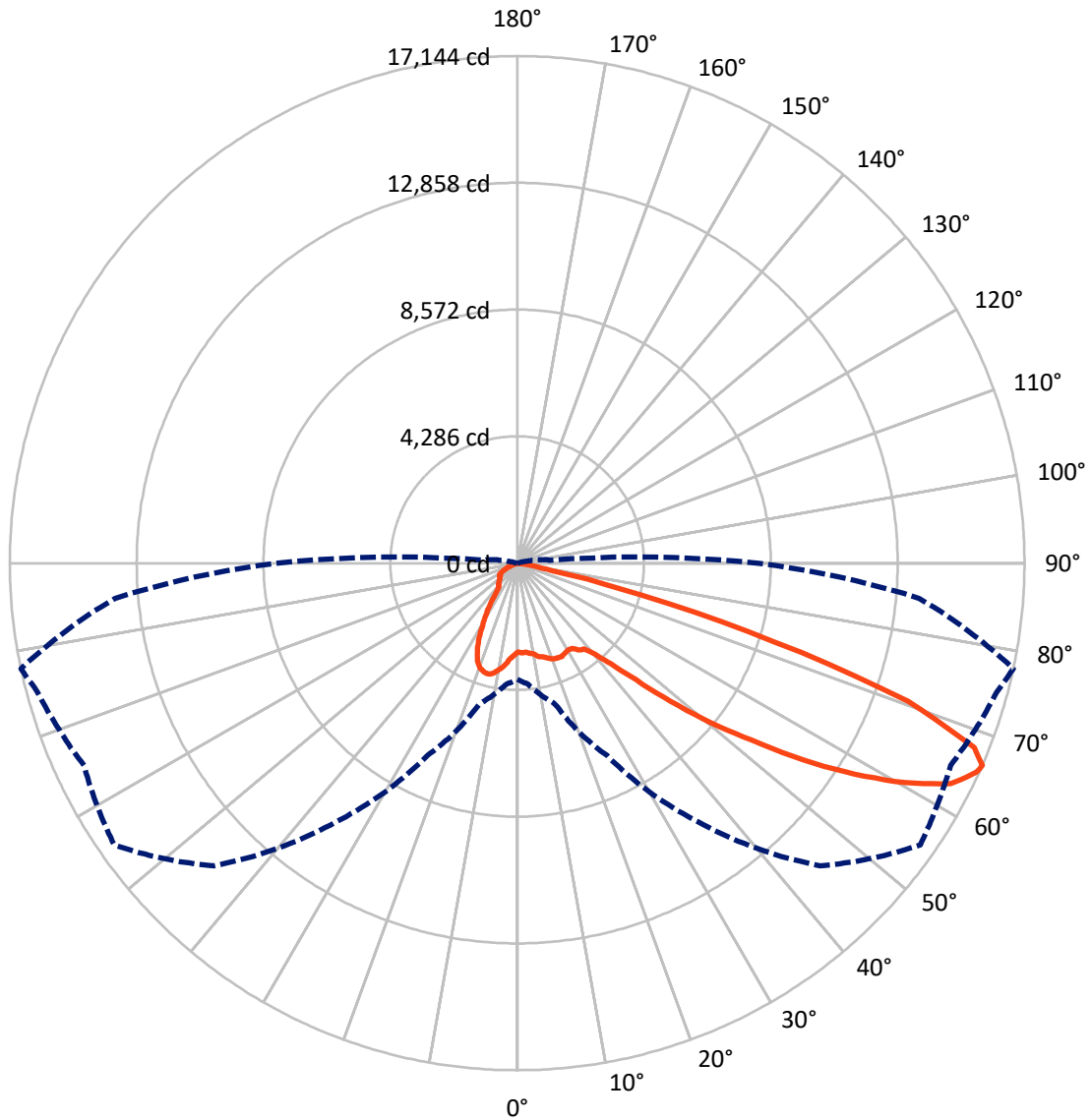
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P482742  
CATALOG NUMBER: IFLD-M-SA4D-727-U-T3R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P482742  
 CATALOG NUMBER: IFLD-M-SA4D-727-U-T3R-HSS

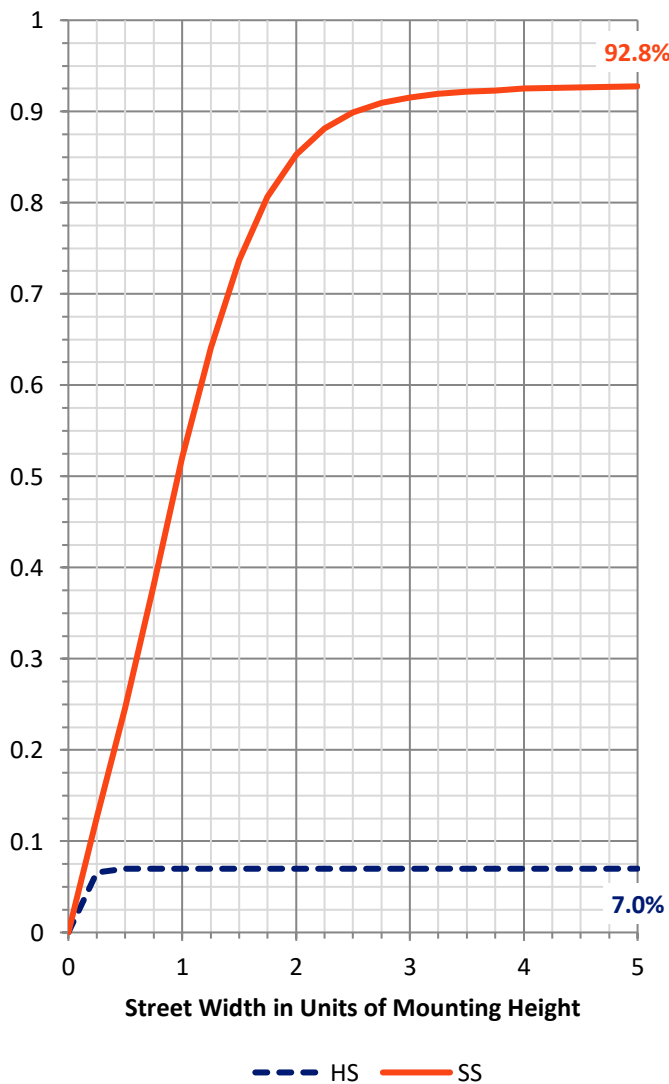
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1318.5	0.0	1318.5
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	17435.5	0.0	17435.5
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	18754.0	0.0	18754.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.8	1.5
10°-20°	620.3	3.3
20°-30°	886.6	4.7
30°-40°	1517.7	8.1
40°-50°	2739.3	14.6
50°-60°	4684.5	25.0
60°-70°	5765.8	30.7
70°-80°	2179.8	11.6
80°-90°	85.1	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°	18754.0	100.0
0°-180°	18754.0	100.0

**Coefficient of Utilization**

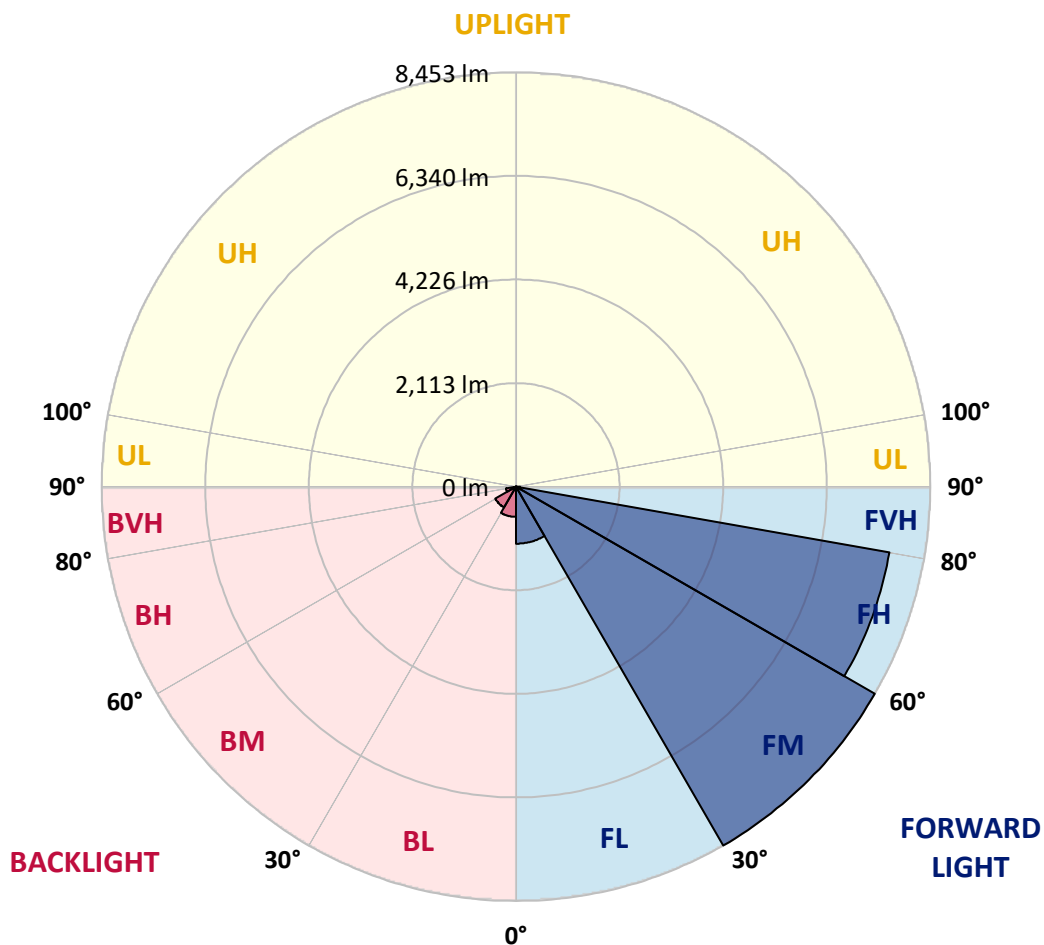


REPORT NUMBER: P482742  
 CATALOG NUMBER: IFLD-M-SA4D-727-U-T3R-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1164.3	6.2			
FM (30°-60°)	8452.8	45.1			
FH (60°-80°)	7736.7	41.3			G4/12000
FVH (80°-90°)	81.7	0.4			G1/100
BL (0°-30°)	617.5	3.3	B2/1000		
BM (30°-60°)	488.7	2.6	B1/1000		
BH (60°-80°)	208.9	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





REPORT NUMBER: P482742  
 CATALOG NUMBER: IFLD-M-SA4D-727-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8
2.5°	2762.9	2737.4	2762.9	2799.7	2819.6	2836.6	2896.1	2947.1	3000.9	3037.8	3026.4
5°	2561.7	2609.9	2615.6	2626.9	2658.1	2760.1	2794.1	2881.9	3015.1	3026.4	3077.5
7.5°	2403.0	2388.9	2425.7	2499.4	2578.7	2638.2	2737.4	2890.4	3029.3	3077.5	3176.6
10°	2173.5	2201.8	2241.5	2315.2	2411.5	2558.9	2734.6	2904.6	3103.0	3120.0	3304.2
12.5°	2048.8	2020.5	2082.8	2159.3	2323.7	2459.7	2675.1	2879.1	3148.3	3241.8	3454.3
15°	1946.8	1961.0	2020.5	2071.5	2207.5	2380.4	2632.6	2941.4	3224.8	3290.0	3613.0
17.5°	1904.3	1895.8	1941.1	1992.1	2159.3	2354.8	2615.6	2944.3	3292.8	3377.8	3720.7
20°	1924.1	1941.1	1927.0	1975.1	2080.0	2278.3	2641.1	2998.1	3343.8	3460.0	3836.9
22.5°	2235.8	2213.2	2099.8	2009.1	2014.8	2247.2	2621.2	3032.1	3389.2	3482.7	3916.2
25°	3049.1	2927.3	2646.7	2298.2	2068.6	2162.2	2598.5	3020.8	3380.7	3496.8	3964.4
27.5°	3868.1	3763.2	3488.3	2947.1	2286.8	2128.1	2519.2	3029.3	3338.2	3445.8	3885.1
30°	4732.4	4789.0	4381.0	3737.7	2859.3	2315.2	2468.2	2983.9	3309.8	3400.5	3902.1
32.5°	5619.3	5596.7	5350.1	4653.0	3678.2	2728.9	2550.4	3029.3	3346.7	3434.5	4001.3
35°	6313.6	6234.3	5984.9	5355.8	4355.5	3352.3	2833.8	3244.6	3508.2	3613.0	4142.9
37.5°	6656.5	6690.5	6546.0	5999.1	5097.9	3930.4	3188.0	3244.6	3559.2	3681.0	4372.5
40°	6922.9	7024.9	6971.0	6795.3	5834.7	4582.2	3579.0	3445.8	3817.1	4046.6	4803.2
42.5°	7243.1	7194.9	7512.3	7350.8	6798.2	5404.0	4264.8	3924.7	4426.3	4647.4	5449.3
45°	7413.1	7597.3	7838.2	8045.0	7690.8	6429.8	5160.3	4772.0	5358.6	5639.2	6409.9
47.5°	7849.5	7923.2	8314.2	8574.9	8416.2	7603.0	6520.5	6010.4	6531.8	6973.9	7509.4
50°	8104.5	8005.3	8552.3	8949.0	9039.7	8574.9	7739.0	7342.2	7926.0	8489.9	8538.1
52.5°	7880.7	8164.0	8711.0	9422.2	9674.4	9442.1	9170.0	8997.2	9408.1	9929.5	9697.1
55°	7095.7	7288.4	8620.3	9940.8	10754.1	10646.4	10898.6	10785.3	11199.0	11751.6	11051.6
57.5°	6463.8	6704.7	7875.0	10210.0	11760.1	12077.4	12394.8	12324.0	12822.7	13460.3	12199.3
60°	6069.9	6208.7	7336.6	10142.0	12355.2	13556.7	14273.6	13774.9	14588.2	15075.6	13097.6
62.5°	5387.0	5474.8	6551.6	9240.9	12533.7	14602.3	15818.0	15140.7	15846.3	16441.4	13743.7
65°	4318.6	4556.7	5446.5	7892.0	11354.8	14795.0	16781.5	15985.2	16668.1	17059.2	13939.2
66°	3930.4	4103.3	4919.4	7177.9	10683.2	14474.8	16619.9	16160.9	16787.1	17144.2	13638.8
67.5°	3261.6	3411.8	4060.8	6160.6	9308.9	13769.2	16733.3	16041.9	16877.8	16659.6	13236.5
70°	2159.3	2255.7	2777.1	4165.6	6483.6	11264.2	15520.5	15112.4	14837.5	14018.6	10348.9
72.5°	1008.8	1147.7	1734.3	2524.9	3802.9	7880.7	12655.5	12108.6	10405.5	9096.3	6529.0
75°	456.2	518.6	952.1	1448.0	1705.9	4083.4	8164.0	7373.4	5180.1	4301.6	2859.3
77.5°	246.5	280.5	464.7	688.6	620.6	1431.0	4040.9	3360.8	1632.2	1195.8	830.3
80°	189.9	223.9	388.2	393.9	229.5	371.2	1501.9	1040.0	408.1	308.9	198.4
82.5°	99.2	141.7	306.0	255.0	116.2	150.2	464.7	289.0	127.5	102.0	85.0
85°	39.7	62.3	172.9	170.0	68.0	51.0	130.4	87.8	51.0	42.5	39.7
87.5°	2.8	2.8	93.5	65.2	42.5	14.2	19.8	19.8	25.5	22.7	28.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P482742  
 CATALOG NUMBER: IFLD-M-SA4D-727-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8
2.5°	3077.5	3111.5	3117.1	3210.6	3230.5	3210.6	3261.6	3253.1	3275.8	3258.8	3227.6
5°	3148.3	3196.5	3290.0	3360.8	3360.8	3304.2	3258.8	3199.3	3111.5	3088.8	3071.8
7.5°	3270.1	3423.2	3508.2	3462.8	3372.2	3159.6	2864.9	2649.6	2468.2	2400.2	2369.0
10°	3485.5	3570.5	3669.7	3485.5	3108.6	2658.1	2162.2	1836.3	1581.2	1524.6	1482.1
12.5°	3624.4	3760.4	3817.1	3360.8	2621.2	1949.6	1411.2	1042.8	864.3	728.3	705.6
15°	3805.7	3961.6	3845.4	3023.6	2065.8	1278.0	731.1	456.2	371.2	348.6	348.6
17.5°	3930.4	4100.4	3729.2	2604.2	1465.0	680.1	362.7	314.5	308.9	311.7	306.0
20°	4148.6	4250.6	3553.5	2116.8	875.6	348.6	291.9	280.5	274.9	283.4	277.7
22.5°	4230.8	4324.3	3267.3	1533.1	393.9	232.4	218.2	209.7	215.4	212.5	209.7
25°	4225.1	4273.3	2796.9	878.5	116.2	90.7	82.2	82.2	76.5	79.3	76.5
27.5°	4267.6	4148.6	2269.8	260.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4290.3	3947.4	1615.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4301.6	3842.6	1040.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4389.5	3632.9	444.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4449.0	3363.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4695.5	3278.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5015.7	3120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5460.6	2884.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6050.1	2745.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6489.3	2527.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7047.5	2397.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7710.6	2403.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8314.2	2363.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8623.1	2020.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8557.9	1635.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8331.2	1283.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8175.4	1136.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7702.1	909.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6129.4	623.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3899.2	382.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1796.6	175.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	563.9	107.7	22.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	147.4	68.0	22.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	76.5	48.2	19.8	8.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	48.2	19.8	8.5	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	42.5	11.3	5.7	5.7	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)