

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: P483909

Luminaire Tested: **IFLD-M-SA4A-727-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483909  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-727-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

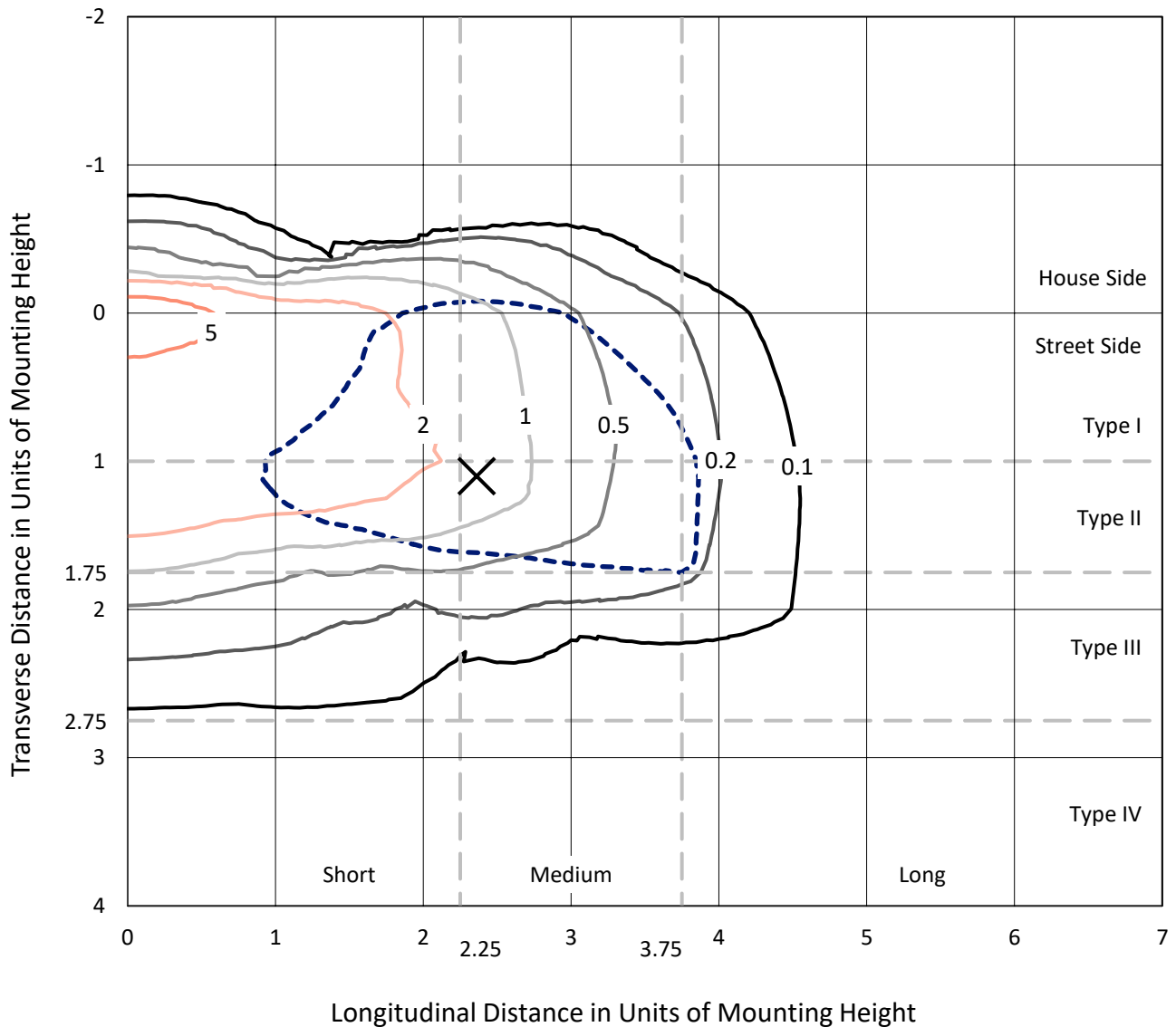
Lumens per Lamp: N/A  
Luminaire Lumens: 12711.4 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (Ain): 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

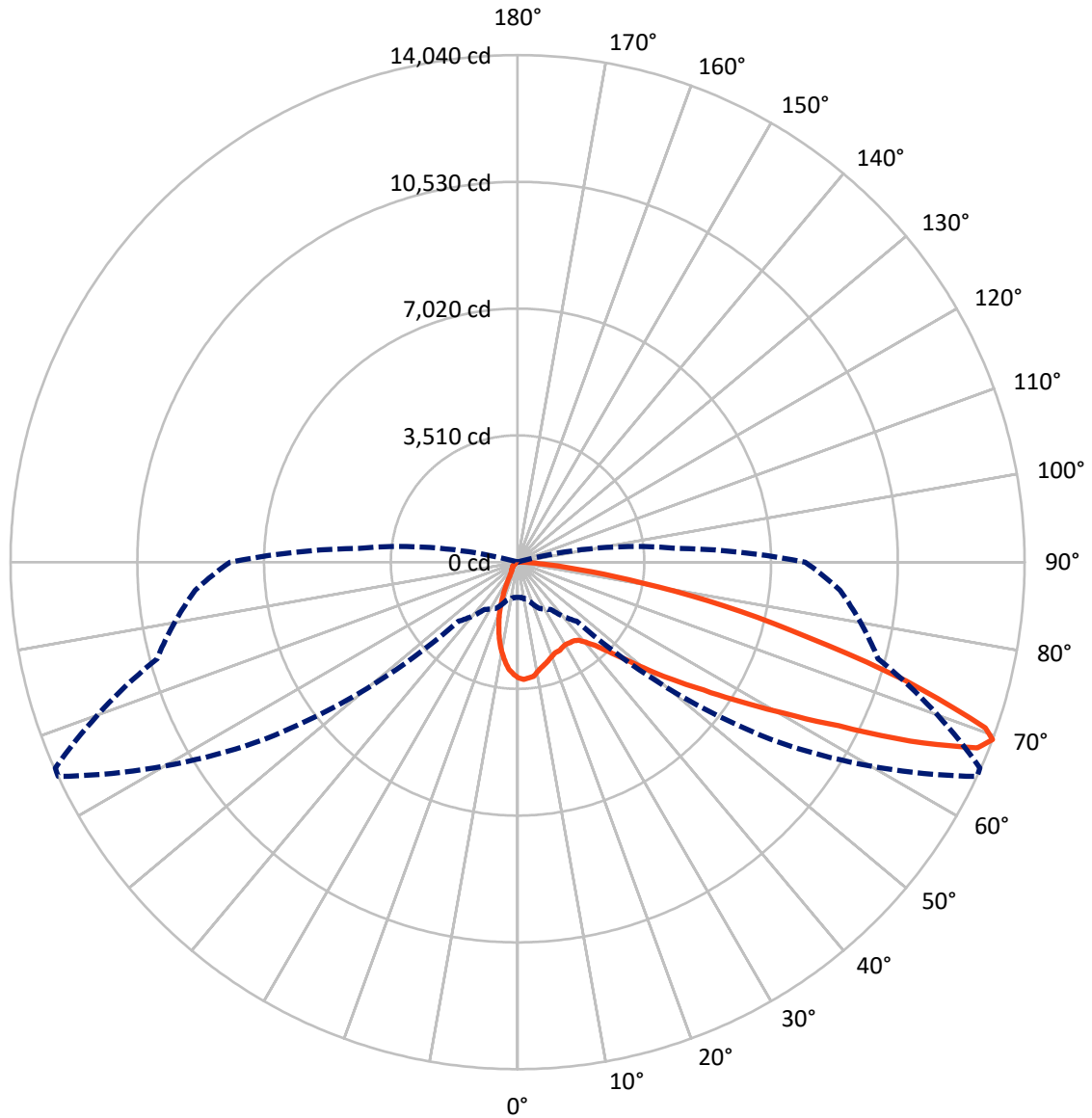
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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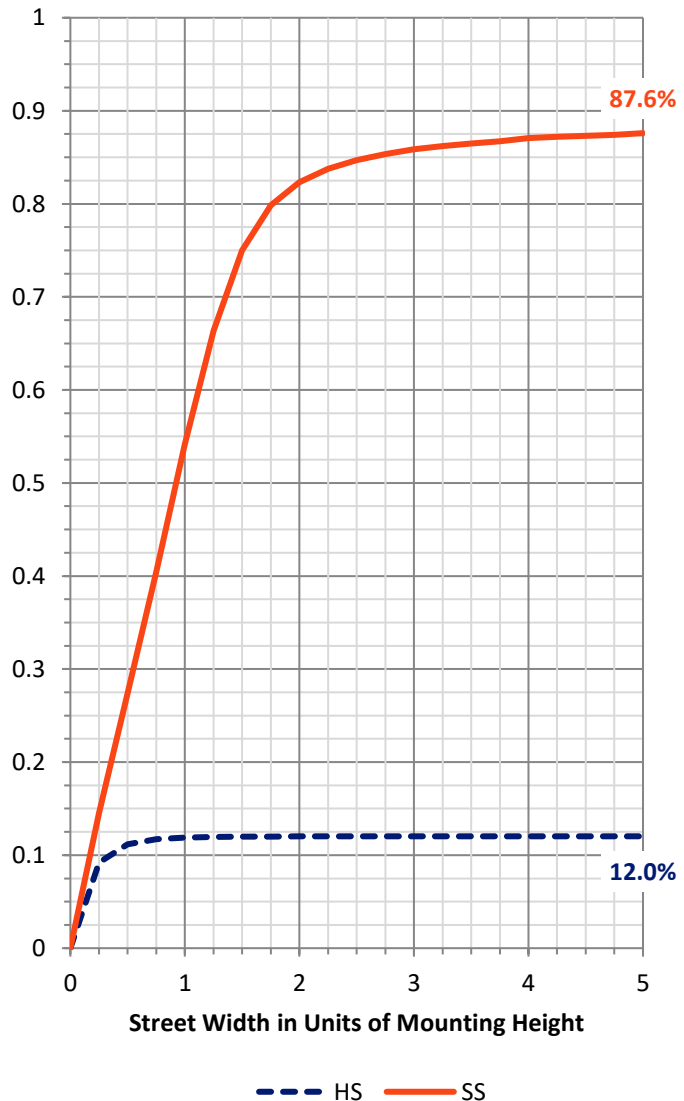
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1542.0	0.0	1542.0
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	11169.5	0.0	11169.5
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	12711.4	0.0	12711.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.3	2.1
10°-20°	573.8	4.5
20°-30°	798.9	6.3
30°-40°	1132.1	8.9
40°-50°	1784.2	14.0
50°-60°	2895.1	22.8
60°-70°	3233.2	25.4
70°-80°	1820.7	14.3
80°-90°	211.3	1.7
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°	12711.4	100.0
0°-180°	12711.4	100.0

**Coefficient of Utilization**

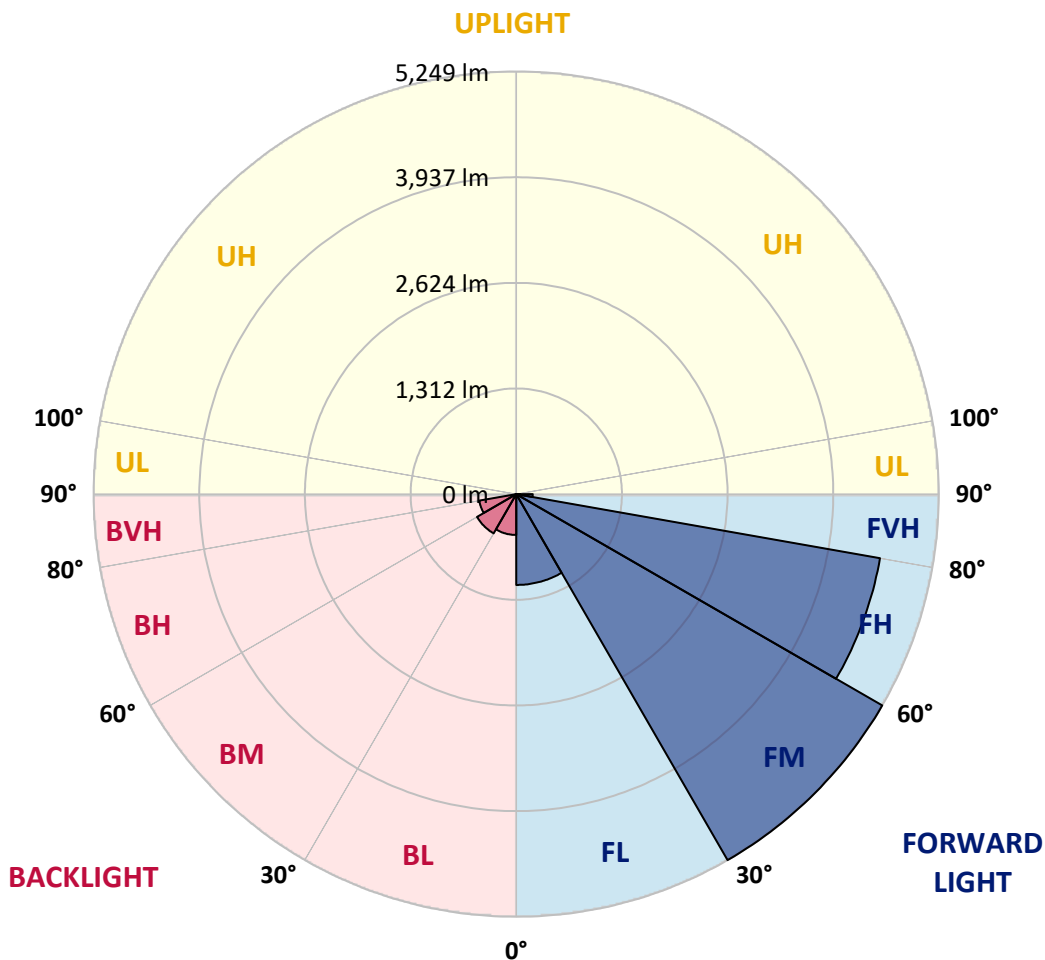


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1128.0	8.9			
FM (30°-60°)	5248.7	41.3			
FH (60°-80°)	4587.3	36.1			G2/5000
FVH (80°-90°)	205.4	1.6			G2/225
BL (0°-30°)	507.0	4.0	B2/1000		
BM (30°-60°)	562.7	4.4	B1/1000		
BH (60°-80°)	466.5	3.7	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: B2-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8
2.5°	3086.5	3110.5	3117.4	3141.4	3153.4	3204.8	3234.0	3251.1	3242.6	3261.4	3263.1
5°	2867.0	2853.3	2889.3	2915.1	2969.9	3059.1	3150.0	3220.3	3252.9	3283.7	3278.6
7.5°	2632.1	2625.3	2661.3	2719.6	2769.3	2877.3	3023.1	3196.3	3189.4	3264.9	3287.2
10°	2470.9	2477.8	2489.8	2548.1	2621.8	2731.6	2913.3	3074.5	3110.5	3270.0	3314.6
12.5°	2323.5	2335.5	2357.8	2417.8	2503.5	2616.7	2793.3	2981.9	3036.8	3240.9	3330.0
15°	2275.5	2248.0	2292.6	2337.2	2426.4	2527.5	2676.7	2911.6	2935.6	3206.6	3355.7
17.5°	2236.0	2218.9	2239.4	2275.5	2369.8	2452.1	2592.7	2836.2	2880.8	3192.8	3352.3
20°	2248.0	2232.6	2241.2	2268.6	2311.5	2388.6	2519.0	2764.2	2812.2	3129.4	3347.2
22.5°	2282.3	2294.3	2278.9	2285.7	2299.5	2338.9	2479.5	2712.7	2753.9	3117.4	3376.3
25°	2436.6	2416.1	2395.5	2386.9	2306.3	2323.5	2467.5	2709.3	2738.4	3074.5	3352.3
27.5°	2597.8	2580.7	2572.1	2522.4	2412.6	2361.2	2469.2	2661.3	2700.7	3057.4	3323.2
30°	2793.3	2815.6	2781.3	2721.3	2568.7	2441.8	2488.1	2637.3	2692.1	2992.2	3304.3
32.5°	2999.1	3011.1	3028.2	2983.6	2786.5	2563.5	2544.7	2659.6	2663.0	2992.2	3261.4
35°	3232.3	3215.1	3259.7	3263.1	3090.0	2779.6	2652.7	2675.0	2711.0	2978.5	3246.0
37.5°	3432.9	3462.1	3513.5	3595.8	3417.5	3084.8	2820.7	2747.0	2762.4	3041.9	3258.0
40°	3652.4	3681.5	3798.1	3880.5	3779.3	3427.8	3076.2	2915.1	2927.1	3136.3	3319.7
42.5°	3894.2	3950.8	4089.7	4233.7	4206.3	3863.3	3405.5	3162.0	3156.8	3371.2	3446.6
45°	4221.7	4297.1	4448.0	4614.4	4638.4	4362.3	3844.4	3530.6	3547.8	3678.1	3709.0
47.5°	4677.8	4674.4	4821.8	5007.0	5145.9	4880.1	4369.2	4026.2	4024.5	4163.4	4098.2
50°	5118.5	5120.2	5159.7	5374.0	5734.1	5598.6	5019.0	4684.7	4665.8	4734.4	4629.8
52.5°	5322.6	5298.5	5269.4	5528.3	6186.8	6504.0	5842.1	5430.6	5415.1	5374.0	5346.6
55°	5108.2	5116.8	5115.1	5384.3	6425.1	7459.1	6898.4	6251.9	6226.2	6097.6	6135.3
57.5°	4420.6	4393.2	4453.2	4873.3	6152.5	8110.7	8409.1	7287.6	7220.8	6793.8	6708.1
60°	3290.6	3299.2	3348.9	3844.4	5475.2	8247.9	9854.6	8503.4	8215.3	7284.2	7165.9
62.5°	2297.8	2280.6	2299.5	2577.3	3914.7	7699.2	10832.0	9981.5	9703.7	7841.5	7772.9
65°	1644.4	1622.1	1697.6	1867.4	2350.9	5886.7	10970.9	11950.0	11701.4	8731.5	8566.8
67.5°	1183.2	1179.7	1267.2	1575.8	1670.2	3390.0	9942.1	13733.3	13582.4	9787.7	9050.4
69°	979.1	980.8	1064.9	1411.2	1594.7	2314.9	8554.8	14040.3	14012.8	10333.0	8959.5
70°	853.9	860.8	958.5	1313.5	1563.8	1903.4	7375.1	13738.5	13711.1	10439.3	8659.4
72.5°	526.4	531.6	660.2	1052.8	1486.7	1553.6	4410.3	11240.1	11334.4	9952.3	7460.8
75°	252.1	253.8	346.4	761.3	1433.5	1473.0	2362.9	8294.2	8493.1	8035.3	5830.1
77.5°	133.7	133.7	166.3	404.7	1160.9	1385.5	1402.7	5850.7	6015.3	5080.8	3314.6
80°	66.9	68.6	101.2	210.9	720.2	1358.1	1095.7	3489.5	3578.7	2073.1	1032.3
82.5°	25.7	27.4	48.0	126.9	373.8	1147.2	962.0	1716.5	1694.2	485.3	252.1
85°	3.4	3.4	17.1	75.4	159.5	505.8	793.9	716.8	692.8	106.3	121.7
87.5°	0.0	0.0	3.4	22.3	48.0	147.5	306.9	197.2	219.5	29.2	60.0
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°	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8
2.5°	3254.6	3218.6	3163.7	3110.5	3054.0	2985.4	2909.9	2882.5	2834.5	2831.0	2858.5
5°	3251.1	3192.8	3096.8	2983.6	2822.5	2700.7	2568.7	2472.7	2398.9	2350.9	2362.9
7.5°	3268.3	3198.0	3031.7	2788.2	2580.7	2338.9	2134.9	1994.2	1865.6	1802.2	1795.3
10°	3240.9	3146.5	2903.1	2561.8	2256.6	1918.8	1620.4	1431.8	1239.8	1169.5	1172.9
12.5°	3256.3	3124.3	2764.2	2328.6	1908.5	1469.5	1112.9	855.7	675.6	617.3	610.4
15°	3266.6	3076.2	2630.4	2049.1	1522.7	1001.4	644.7	485.3	428.7	418.4	416.7
17.5°	3227.1	3017.9	2441.8	1773.0	1128.3	608.7	428.7	396.1	385.8	379.0	375.5
20°	3225.4	2983.6	2278.9	1490.1	752.8	415.0	370.4	358.4	342.9	337.8	337.8
22.5°	3196.3	2911.6	2083.4	1179.7	480.1	356.7	332.7	313.8	296.6	289.8	288.1
25°	3187.7	2827.6	1899.9	886.5	365.2	318.9	294.9	267.5	246.9	236.6	231.5
27.5°	3163.7	2755.6	1714.7	624.2	318.9	284.6	253.8	224.6	200.6	185.2	183.5
30°	3078.0	2680.1	1509.0	432.1	289.8	252.1	217.8	183.5	159.5	149.2	145.8
32.5°	3041.9	2609.8	1284.3	332.7	264.1	222.9	183.5	152.6	133.7	123.5	121.7
35°	2999.1	2506.9	1066.6	289.8	240.1	193.8	154.3	128.6	113.2	104.6	104.6
37.5°	3004.2	2424.6	862.5	262.4	214.3	166.3	132.0	109.7	96.0	87.5	87.5
40°	2988.8	2359.5	670.5	238.3	190.3	142.3	111.5	92.6	80.6	72.0	70.3
42.5°	3059.1	2342.3	505.8	217.8	166.3	121.7	96.0	78.9	66.9	56.6	56.6
45°	3177.4	2369.8	394.4	198.9	142.3	104.6	82.3	65.2	53.2	46.3	44.6
47.5°	3492.9	2477.8	308.7	183.5	121.7	90.9	68.6	53.2	42.9	36.0	34.3
50°	3950.8	2719.6	262.4	161.2	102.9	77.2	56.6	41.2	34.3	27.4	25.7
52.5°	4602.4	3126.0	238.3	142.3	85.7	63.4	44.6	32.6	25.7	20.6	18.9
55°	5312.3	3633.5	216.1	120.0	72.0	51.4	36.0	25.7	18.9	13.7	12.0
57.5°	5866.1	4072.5	197.2	99.5	58.3	41.2	27.4	18.9	13.7	8.6	6.9
60°	6471.4	4381.2	173.2	78.9	48.0	30.9	20.6	13.7	10.3	5.1	5.1
62.5°	7095.6	4743.0	142.3	61.7	37.7	24.0	15.4	10.3	6.9	1.7	1.7
65°	7963.2	5025.9	109.7	48.0	29.2	17.1	12.0	8.6	3.4	0.0	0.0
67.5°	8208.5	4887.0	80.6	37.7	20.6	12.0	8.6	5.1	1.7	0.0	0.0
69°	7963.2	4401.7	70.3	32.6	17.1	10.3	6.9	3.4	1.7	0.0	0.0
70°	7515.7	4024.5	61.7	27.4	15.4	10.3	5.1	3.4	1.7	0.0	0.0
72.5°	6286.2	3086.5	48.0	20.6	12.0	8.6	5.1	3.4	0.0	0.0	0.0
75°	4610.9	1906.8	36.0	15.4	10.3	6.9	5.1	3.4	0.0	0.0	0.0
77.5°	2470.9	696.2	25.7	10.3	6.9	5.1	5.1	3.4	0.0	0.0	0.0
80°	677.3	205.8	18.9	6.9	5.1	3.4	3.4	1.7	0.0	0.0	0.0
82.5°	185.2	53.2	12.0	6.9	5.1	3.4	1.7	0.0	0.0	0.0	0.0
85°	99.5	20.6	6.9	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	51.4	6.9	5.1	3.4	3.4	1.7	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)