

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: P484804

Luminaire Tested: **IFLD-S-SA6D-740-U-SL4-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P484804  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-740-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

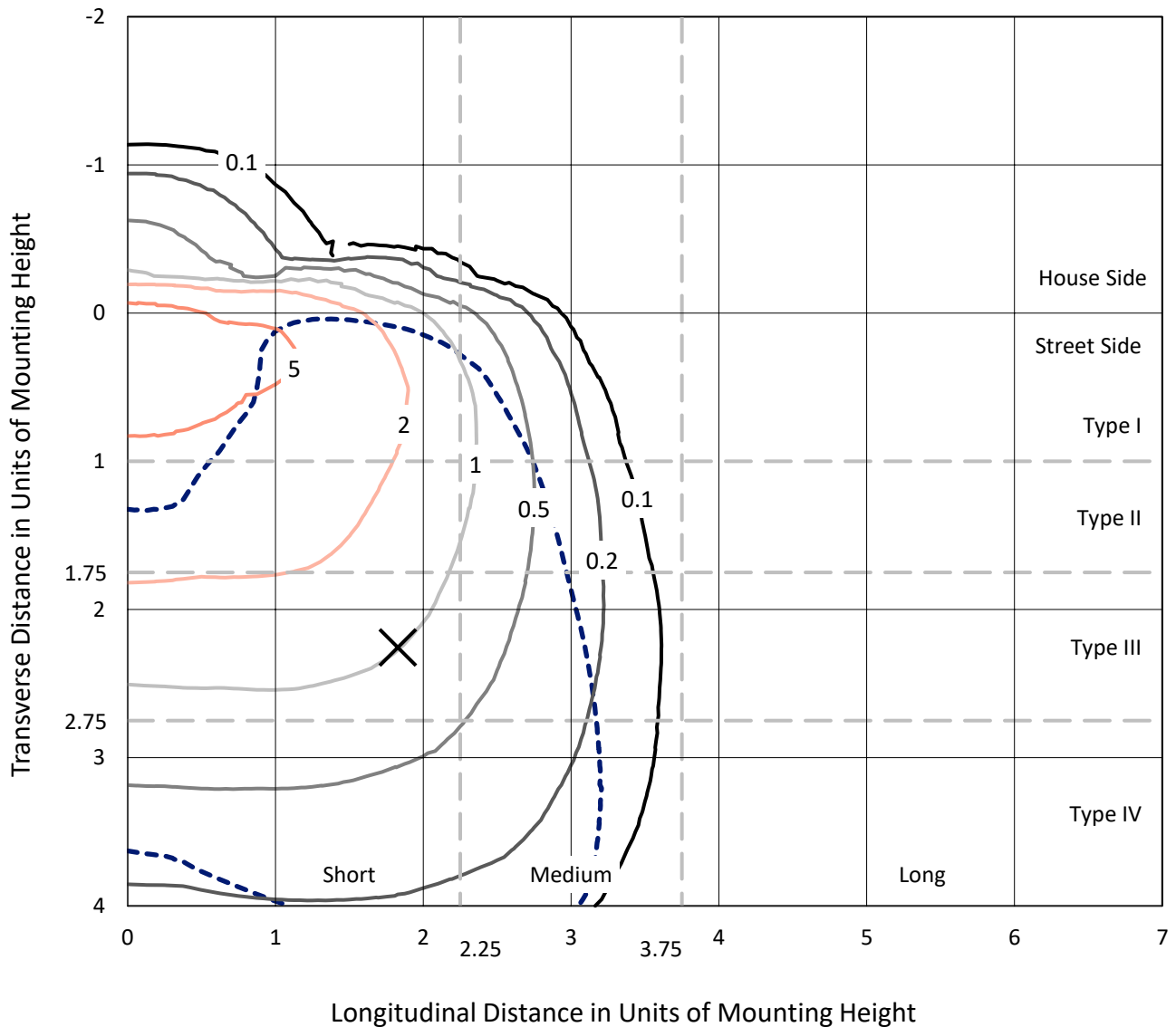
Lumens per Lamp: N/A  
Luminaire Lumens: 37771.6 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 368.2  
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

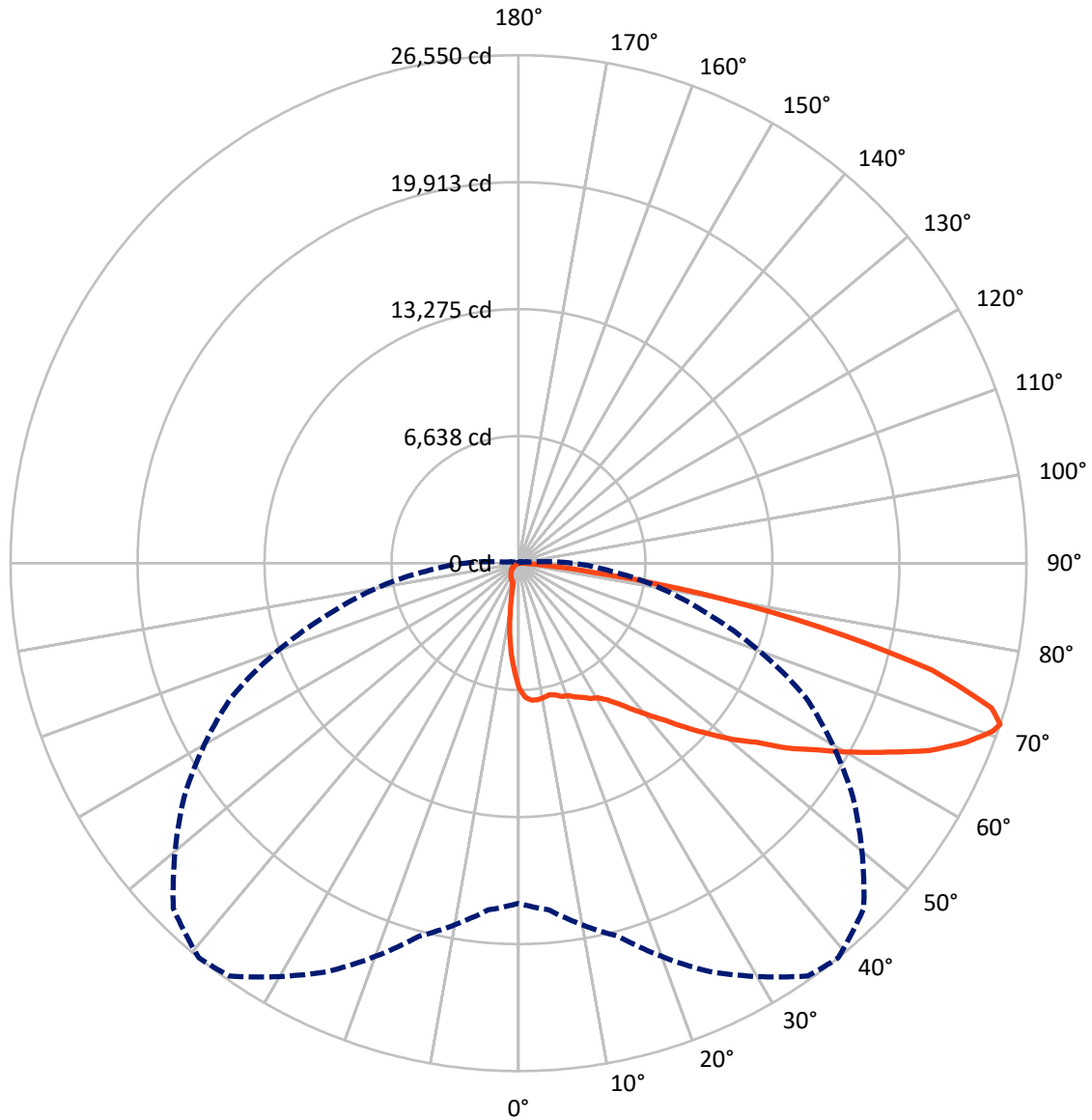
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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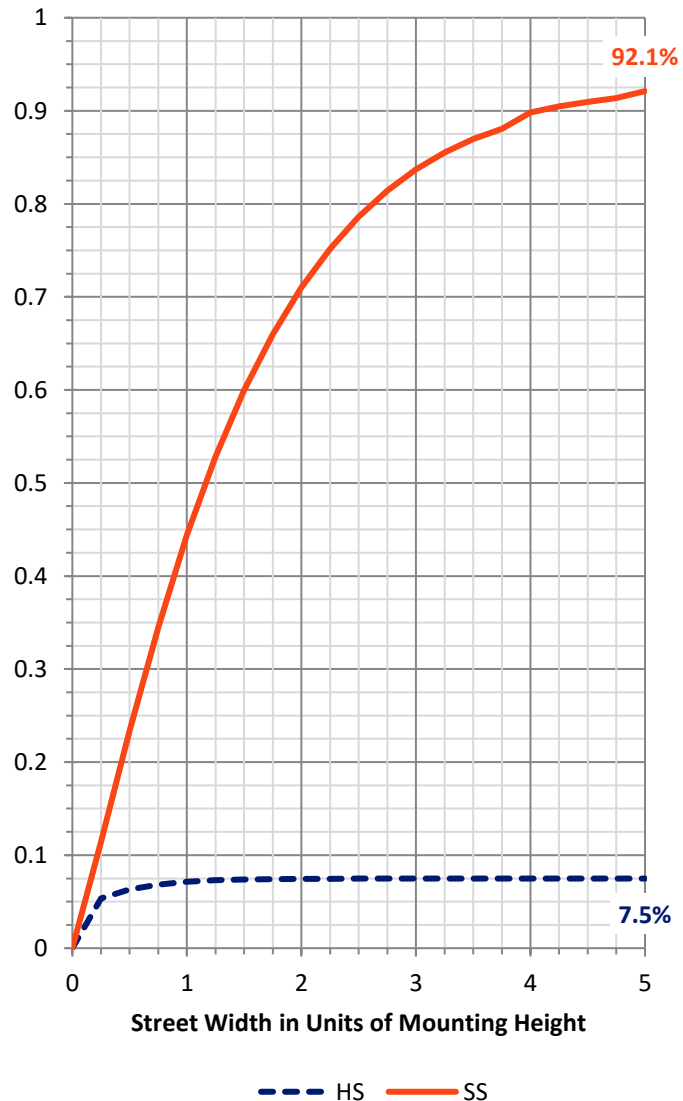
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2843.6	0.0	2843.6
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	34928.0	0.0	34928.0
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	37771.6	0.0	37771.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.7	1.5
10°-20°	1352.9	3.6
20°-30°	2171.9	5.8
30°-40°	3324.6	8.8
40°-50°	5336.6	14.1
50°-60°	7838.6	20.8
60°-70°	9872.4	26.1
70°-80°	6588.6	17.4
80°-90°	736.3	1.9
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°	37771.6	100.0
0°-180°	37771.6	100.0

**Coefficient of Utilization**



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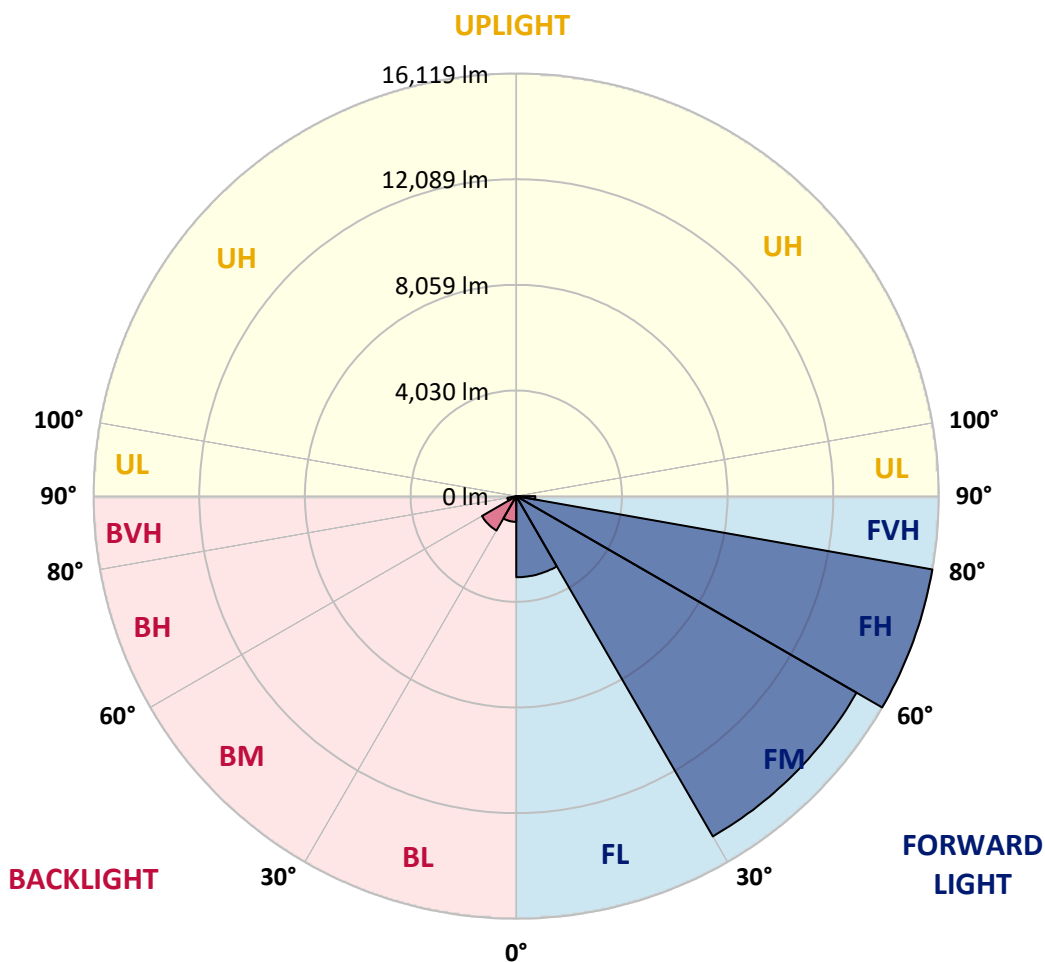
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3092.7	8.2			
FM (30°-60°)	14988.3	39.7			
FH (60°-80°)	16118.8	42.7			G5
FVH (80°-90°)	728.2	1.9			G4/750
BL (0°-30°)	981.8	2.6	B2/1000		
BM (30°-60°)	1511.5	4.0	B2/2500		
BH (60°-80°)	342.3	0.9	B1/500		G1/500
BVH (80°-90°)	8.1	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6574.4	6574.4	6574.4	6574.4	6574.4	6574.4	6574.4	6574.4	6574.4	6574.4	6574.4
2.5°	7084.7	7154.0	7084.7	7055.0	7025.2	7030.2	6950.9	6965.8	6871.6	6747.8	6648.7
5°	7307.6	7401.8	7327.4	7292.8	7287.8	7193.7	7154.0	7059.9	6946.0	6752.7	6633.8
7.5°	7287.8	7268.0	7302.7	7272.9	7208.5	7208.5	7164.0	7030.2	6916.2	6698.2	6495.1
10°	7139.2	7198.6	7168.9	7134.2	7149.1	7154.0	7069.8	6975.7	6941.0	6723.0	6391.1
12.5°	7124.3	7025.2	7134.2	7139.2	7074.8	7069.8	7059.9	7035.1	6926.1	6728.0	6415.9
15°	7074.8	7035.1	7144.1	7149.1	7164.0	7149.1	7164.0	7144.1	7035.1	6921.2	6524.8
17.5°	7114.4	7069.8	7223.4	7297.7	7263.0	7332.4	7307.6	7218.5	7124.3	6990.6	6628.9
20°	7124.3	7188.7	7357.2	7386.9	7495.9	7381.9	7377.0	7282.9	7223.4	7079.7	6693.3
22.5°	7307.6	7337.4	7545.4	7609.8	7614.8	7599.9	7476.1	7367.1	7342.3	7164.0	6708.2
25°	7585.1	7689.1	7783.2	7822.9	7837.7	7768.4	7639.6	7500.8	7441.4	7327.4	6861.7
27.5°	8075.6	8011.1	8095.4	8154.8	7986.4	8011.1	7847.7	7728.7	7644.5	7545.4	7040.1
30°	8511.5	8452.1	8457.0	8447.1	8303.4	8169.7	8125.1	7917.0	7813.0	7852.6	7317.5
32.5°	8902.9	8774.1	8883.1	8833.6	8566.0	8526.4	8491.7	8229.1	8249.0	8432.3	7733.7
35°	9264.6	9220.0	9309.2	9220.0	9041.6	9031.7	8997.1	8769.2	8878.2	9140.7	8447.1
37.5°	9596.5	9611.4	9720.4	9675.8	9690.7	9700.6	9680.8	9438.0	9750.1	10339.7	9279.5
40°	9903.7	9883.9	10151.4	10290.1	10319.9	10428.9	10428.9	10369.4	10850.0	11513.9	10433.8
42.5°	10230.7	10280.2	10627.0	10859.9	11142.3	11236.4	11365.2	11394.9	12138.1	12896.1	11612.9
45°	10765.7	10681.5	11122.5	11672.4	11920.1	12252.0	12450.2	12618.7	13515.4	14555.8	12792.1
47.5°	11444.5	11276.0	11662.5	12460.1	13034.8	13307.3	13664.0	13887.0	14763.9	15839.0	13906.8
50°	12197.5	12024.1	12212.4	13312.3	13981.1	14476.5	14932.3	15214.7	16275.0	17275.7	14719.3
52.5°	13049.7	12891.2	12920.9	14199.1	15185.0	15546.7	16146.1	16567.3	17622.5	18142.7	15006.7
55°	13956.3	13916.7	13822.6	15066.1	16240.3	17052.8	17414.5	17919.8	19004.8	18613.4	15318.8
57.5°	14867.9	14744.1	14877.8	16215.5	17934.7	18420.2	18920.6	19222.8	19772.7	19024.6	15199.9
60°	15725.0	15734.9	15923.2	17464.0	19376.4	20065.0	20515.9	20332.6	20560.4	19203.0	14927.4
62.5°	16448.4	16428.5	16904.2	18866.1	21283.8	21749.5	22086.4	21268.9	20927.1	19376.4	14451.8
65°	17097.4	17320.3	18068.4	20535.7	23077.2	23612.3	23409.2	22155.7	21283.8	18866.1	13114.1
67.5°	17587.9	17919.8	19217.8	22106.2	24722.1	25098.6	24816.2	22829.5	20862.7	16864.5	10681.5
70°	17875.2	18212.1	20040.2	23414.1	26035.0	26307.5	25643.6	22309.3	18405.3	12212.4	6663.6
71°	17786.0	18197.2	20198.8	23552.9	26347.1	26550.2	25519.7	21348.2	16552.4	10225.7	4860.2
72.5°	16978.5	17364.9	19539.9	23453.8	25970.6	25846.7	24553.6	19039.5	13029.9	6519.9	2511.8
75°	12475.0	12891.2	16770.4	20288.0	23181.3	22329.1	19871.8	13361.8	6797.3	1996.6	733.2
77.5°	6212.7	6282.1	10409.0	14729.2	17003.2	16156.1	13317.2	7451.3	2541.6	589.6	366.6
80°	2863.6	2883.4	3904.0	7629.7	10280.2	9675.8	7461.2	3676.1	1149.4	312.1	287.4
82.5°	1952.0	1981.7	2353.3	3160.9	4463.8	3765.3	3022.1	2353.3	658.9	188.3	282.4
85°	356.7	327.0	1317.9	1674.6	1724.1	1169.2	1045.4	2036.2	247.7	109.0	247.7
87.5°	0.0	5.0	183.3	683.7	614.3	272.5	356.7	495.4	24.8	34.7	44.6
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°	6574.4	6574.4	6574.4	6574.4	6574.4	6574.4	6574.4	6574.4	6574.4	6574.4	6574.4
2.5°	6564.5	6510.0	6326.7	6123.5	5940.2	5796.6	5613.3	5529.0	5395.3	5320.9	5316.0
5°	6470.3	6321.7	6004.6	5662.8	5281.3	4964.2	4612.5	4414.3	4186.4	4117.0	4102.2
7.5°	6311.8	6098.8	5633.1	5152.5	4567.9	4008.0	3577.0	3116.3	2833.9	2715.0	2670.4
10°	6212.7	5955.1	5320.9	4602.6	3785.1	2997.4	2392.9	1902.5	1644.8	1521.0	1491.3
12.5°	6212.7	5935.3	5068.3	4077.4	2992.4	2051.1	1481.3	1198.9	1114.7	1085.0	1085.0
15°	6197.9	5895.6	4825.5	3537.4	2214.6	1377.3	1104.8	1045.4	1035.5	1030.5	1025.5
17.5°	6272.2	5826.3	4577.8	2957.7	1565.6	1085.0	1015.6	1005.7	995.8	995.8	985.9
20°	6326.7	5786.7	4280.5	2343.4	1169.2	1005.7	976.0	961.1	956.2	951.2	961.1
22.5°	6282.1	5727.2	3913.9	1753.8	1020.6	956.2	936.4	921.5	911.6	911.6	916.6
25°	6366.3	5672.7	3547.3	1322.8	956.2	911.6	891.8	881.9	876.9	872.0	862.1
27.5°	6480.3	5697.5	3111.3	1065.2	901.7	867.0	847.2	837.3	832.3	822.4	832.3
30°	6619.0	5692.5	2630.7	931.4	852.1	817.5	797.6	792.7	782.8	777.8	782.8
32.5°	6856.8	5821.3	2135.3	862.1	797.6	767.9	748.1	743.1	738.2	733.2	728.3
35°	7367.1	5979.9	1669.6	807.6	748.1	713.4	698.6	688.7	683.7	678.7	673.8
37.5°	7996.3	6331.6	1273.3	758.0	698.6	663.9	649.0	644.1	624.2	619.3	614.3
40°	8784.0	6708.2	981.0	703.5	654.0	619.3	604.4	589.6	564.8	554.9	545.0
42.5°	9765.0	7074.8	807.6	654.0	604.4	579.7	554.9	530.1	510.3	490.5	480.6
45°	10745.9	7500.8	708.5	609.4	564.8	535.1	515.2	480.6	445.9	416.2	411.2
47.5°	11563.4	7654.4	649.0	559.8	525.2	500.4	470.7	426.1	376.5	346.8	341.8
50°	12172.8	7565.3	589.6	510.3	480.6	455.8	416.2	361.7	312.1	282.4	272.5
52.5°	12291.7	7173.9	535.1	470.7	436.0	406.3	361.7	302.2	247.7	218.0	213.0
55°	12207.5	6524.8	490.5	436.0	396.3	351.8	302.2	242.8	193.2	163.5	158.5
57.5°	12034.1	5756.9	440.9	391.4	346.8	302.2	247.7	198.2	143.7	113.9	113.9
60°	11444.5	4711.6	391.4	341.8	297.3	257.6	203.1	143.7	99.1	74.3	69.4
62.5°	10622.1	3621.6	341.8	292.3	257.6	213.0	158.5	104.0	59.5	39.6	39.6
65°	9120.9	2536.6	287.4	242.8	213.0	173.4	118.9	64.4	34.7	14.9	14.9
67.5°	6931.1	1570.5	237.8	203.1	183.3	138.7	84.2	39.6	14.9	5.0	0.0
70°	3978.3	817.5	188.3	163.5	143.7	104.0	59.5	19.8	9.9	0.0	0.0
71°	2779.4	604.4	168.4	143.7	128.8	94.1	49.5	14.9	5.0	0.0	0.0
72.5°	1392.2	401.3	143.7	118.9	104.0	74.3	39.6	14.9	5.0	0.0	0.0
75°	495.4	257.6	99.1	79.3	74.3	54.5	24.8	9.9	5.0	0.0	0.0
77.5°	341.8	208.1	69.4	49.5	49.5	34.7	14.9	5.0	5.0	0.0	0.0
80°	312.1	113.9	44.6	29.7	24.8	19.8	9.9	5.0	0.0	0.0	0.0
82.5°	312.1	84.2	24.8	19.8	14.9	9.9	5.0	0.0	0.0	0.0	0.0
85°	218.0	44.6	14.9	14.9	9.9	5.0	0.0	0.0	0.0	0.0	0.0
87.5°	34.7	14.9	9.9	5.0	5.0	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)