

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: P484857

Luminaire Tested: **IFLD-L-SA8C-750-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484857  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-750-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

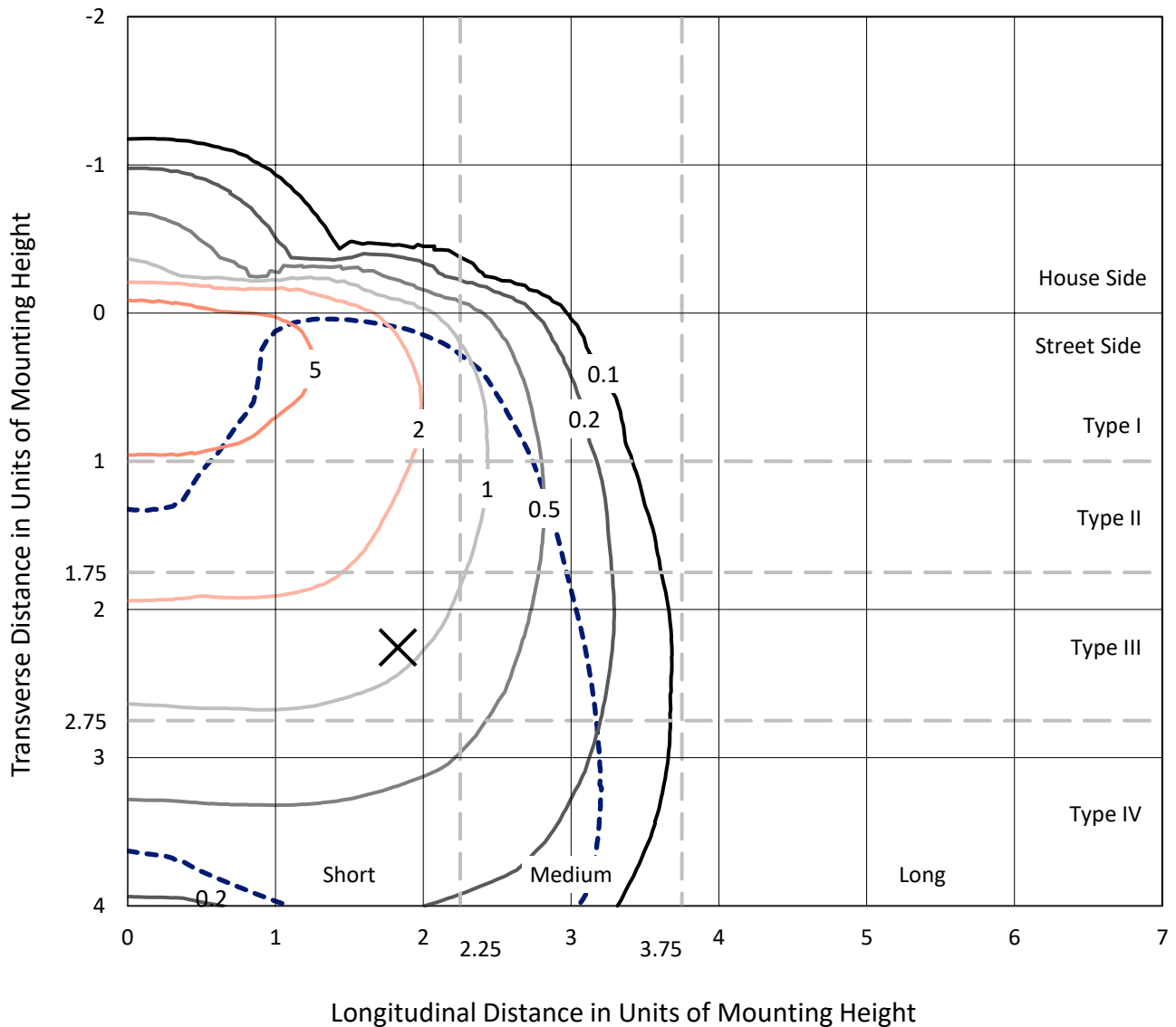
Lumens per Lamp: N/A  
Luminaire Lumens: 42812.9 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3  
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

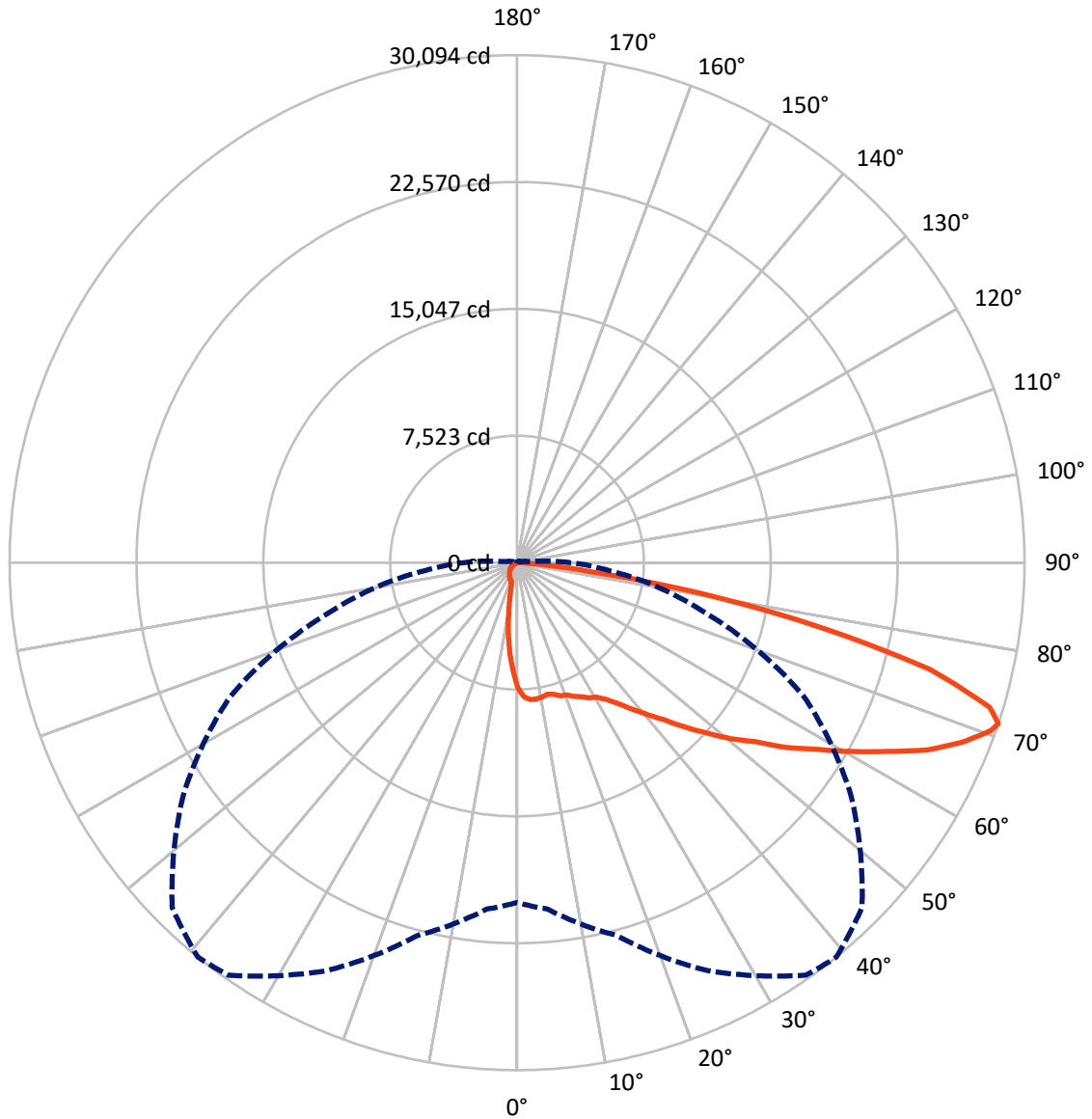
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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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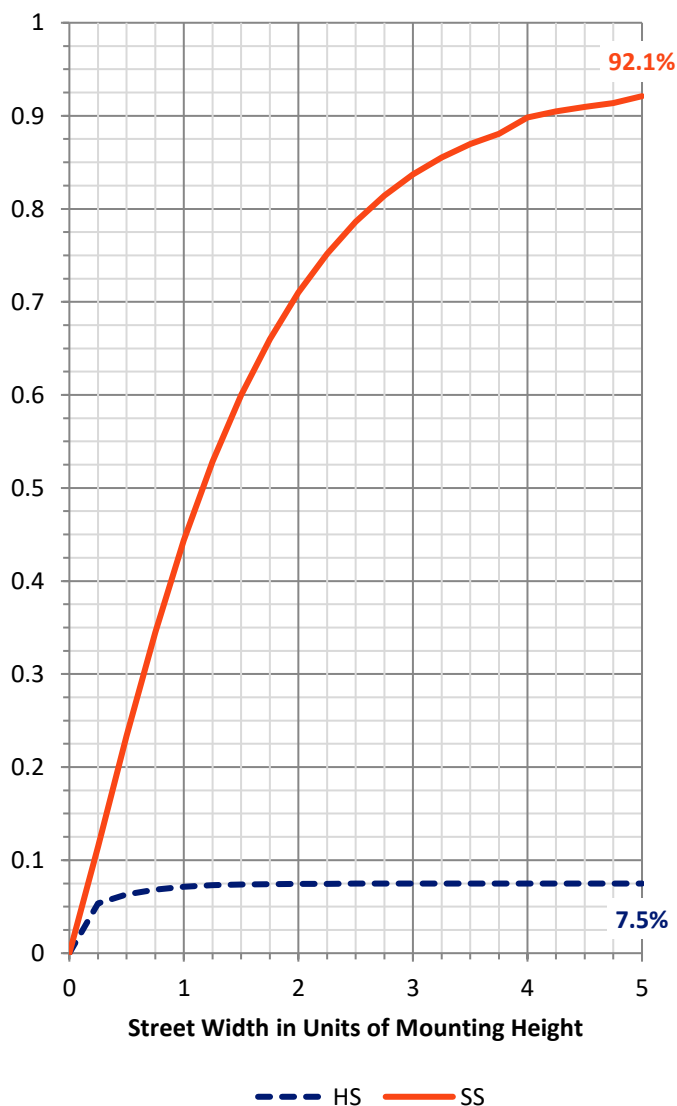
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3223.1	0.0	3223.1
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	39589.7	0.0	39589.7
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	42812.9	0.0	42812.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	623.0	1.5
10°-20°	1533.5	3.6
20°-30°	2461.7	5.8
30°-40°	3768.3	8.8
40°-50°	6048.9	14.1
50°-60°	8884.8	20.8
60°-70°	11190.1	26.1
70°-80°	7468.0	17.4
80°-90°	834.6	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°	42812.9	100.0
0°-180°	42812.9	100.0

**Coefficient of Utilization**



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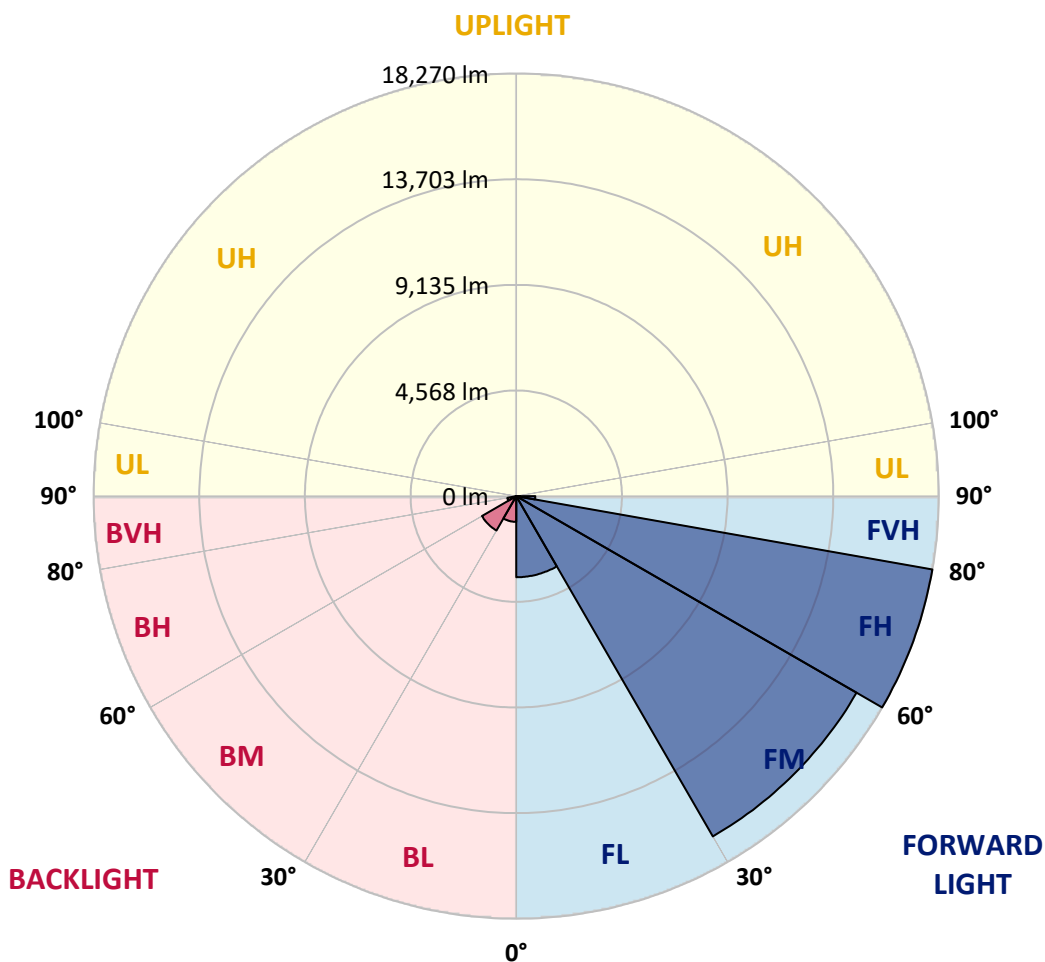
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3505.5	8.2			
FM (30°-60°)	16988.8	39.7			
FH (60°-80°)	18270.1	42.7			G5
FVH (80°-90°)	825.4	1.9			G5
BL (0°-30°)	1112.8	2.6	B3/2500		
BM (30°-60°)	1713.2	4.0	B2/2500		
BH (60°-80°)	387.9	0.9	B1/500		G1/500
BVH (80°-90°)	9.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7451.9	7451.9	7451.9	7451.9	7451.9	7451.9	7451.9	7451.9	7451.9	7451.9	7451.9
2.5°	8030.3	8108.9	8030.3	7996.6	7962.9	7968.5	7878.6	7895.5	7788.8	7648.4	7536.1
5°	8283.0	8389.7	8305.4	8266.1	8260.5	8153.8	8108.9	8002.2	7873.0	7654.0	7519.2
7.5°	8260.5	8238.0	8277.3	8243.6	8170.6	8170.6	8120.1	7968.5	7839.3	7592.2	7362.0
10°	8092.0	8159.4	8125.7	8086.4	8103.3	8108.9	8013.4	7906.7	7867.4	7620.3	7244.1
12.5°	8075.2	7962.9	8086.4	8092.0	8019.0	8013.4	8002.2	7974.1	7850.6	7625.9	7272.2
15°	8019.0	7974.1	8097.6	8103.3	8120.1	8103.3	8120.1	8097.6	7974.1	7844.9	7395.7
17.5°	8063.9	8013.4	8187.5	8271.7	8232.4	8311.0	8283.0	8181.9	8075.2	7923.6	7513.6
20°	8075.2	8148.2	8339.1	8372.8	8496.3	8367.2	8361.6	8254.9	8187.5	8024.6	7586.6
22.5°	8283.0	8316.6	8552.5	8625.5	8631.1	8614.3	8473.9	8350.3	8322.3	8120.1	7603.5
25°	8597.4	8715.4	8822.0	8867.0	8883.8	8805.2	8659.2	8502.0	8434.6	8305.4	7777.6
27.5°	9153.4	9080.4	9175.8	9243.2	9052.3	9080.4	8895.1	8760.3	8664.8	8552.5	7979.7
30°	9647.5	9580.1	9585.8	9574.5	9411.7	9260.1	9209.5	8973.7	8855.7	8900.7	8294.2
32.5°	10091.2	9945.2	10068.7	10012.5	9709.3	9664.4	9625.1	9327.4	9349.9	9557.7	8765.9
35°	10501.1	10450.6	10551.6	10450.6	10248.4	10237.2	10197.9	9939.5	10063.1	10360.7	9574.5
37.5°	10877.3	10894.2	11017.7	10967.2	10984.0	10995.3	10972.8	10697.6	11051.4	11719.7	10517.9
40°	11225.5	11203.0	11506.3	11663.5	11697.2	11820.8	11820.8	11753.4	12298.1	13050.6	11826.4
42.5°	11596.1	11652.3	12045.4	12309.3	12629.4	12736.1	12882.1	12915.8	13758.1	14617.3	13162.9
45°	12202.6	12107.2	12606.9	13230.3	13511.0	13887.3	14111.9	14302.8	15319.3	16498.5	14499.4
47.5°	12971.9	12781.0	13219.0	14123.1	14774.5	15083.4	15487.7	15740.4	16734.4	17953.0	15762.9
50°	13825.5	13629.0	13842.4	15089.0	15847.1	16408.7	16925.3	17245.4	18447.1	19581.5	16683.8
52.5°	14791.4	14611.7	14645.4	16094.2	17211.7	17621.6	18301.1	18778.4	19974.6	20564.2	17009.5
55°	15819.0	15774.1	15667.4	17076.9	18407.8	19328.8	19738.7	20311.5	21541.3	21097.7	17363.3
57.5°	16852.3	16711.9	16863.5	18379.7	20328.3	20878.7	21445.8	21788.4	22411.7	21563.8	17228.5
60°	17823.8	17835.0	18048.4	19794.9	21962.5	22743.0	23254.0	23046.3	23304.6	21765.9	16919.7
62.5°	18643.7	18621.2	19160.3	21384.1	24124.5	24652.3	25034.2	24107.6	23720.1	21962.5	16380.6
65°	19379.3	19632.0	20480.0	23276.5	26157.3	26763.8	26533.5	25112.8	24124.5	21384.1	14864.4
67.5°	19935.2	20311.5	21782.8	25056.6	28021.7	28448.4	28128.4	25876.5	23647.1	19115.4	12107.2
70°	20260.9	20642.8	22715.0	26539.1	29509.8	29818.6	29066.2	25286.9	20861.8	13842.4	7552.9
71°	20159.9	20626.0	22894.6	26696.4	29863.6	30093.8	28925.8	24197.5	18761.6	11590.5	5508.9
72.5°	19244.5	19682.5	22147.8	26584.1	29436.8	29296.4	27830.7	21580.6	14768.9	7390.1	2847.1
75°	14140.0	14611.7	19008.7	22995.7	26275.2	25309.3	22524.0	15145.2	7704.6	2263.1	831.1
77.5°	7041.9	7120.5	11798.3	16695.1	19272.6	18312.3	15094.6	8445.8	2880.8	668.3	415.6
80°	3245.8	3268.3	4425.1	8648.0	11652.3	10967.2	8457.0	4166.7	1302.8	353.8	325.7
82.5°	2212.5	2246.2	2667.4	3582.7	5059.6	4267.8	3425.5	2667.4	746.9	213.4	320.1
85°	404.3	370.6	1493.7	1898.1	1954.2	1325.3	1184.9	2308.0	280.8	123.5	280.8
87.5°	0.0	5.6	207.8	774.9	696.3	308.9	404.3	561.6	28.1	39.3	50.5
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°	7451.9	7451.9	7451.9	7451.9	7451.9	7451.9	7451.9	7451.9	7451.9	7451.9	7451.9
2.5°	7440.6	7378.8	7171.1	6940.8	6733.1	6570.2	6362.4	6267.0	6115.3	6031.1	6025.5
5°	7333.9	7165.5	6806.1	6418.6	5986.2	5626.8	5228.1	5003.5	4745.2	4666.5	4649.7
7.5°	7154.2	6912.8	6384.9	5840.2	5177.5	4543.0	4054.4	3532.2	3212.1	3077.3	3026.8
10°	7041.9	6749.9	6031.1	5216.9	4290.3	3397.4	2712.3	2156.4	1864.4	1724.0	1690.3
12.5°	7041.9	6727.4	5744.7	4621.6	3391.8	2324.8	1679.1	1359.0	1263.5	1229.8	1229.8
15°	7025.1	6682.5	5469.6	4009.5	2510.2	1561.1	1252.3	1184.9	1173.7	1168.0	1162.4
17.5°	7109.3	6603.9	5188.8	3352.5	1774.5	1229.8	1151.2	1140.0	1128.7	1128.7	1117.5
20°	7171.1	6559.0	4851.8	2656.2	1325.3	1140.0	1106.3	1089.4	1083.8	1078.2	1089.4
22.5°	7120.5	6491.6	4436.3	1987.9	1156.8	1083.8	1061.3	1044.5	1033.3	1033.3	1038.9
25°	7216.0	6429.8	4020.7	1499.4	1083.8	1033.3	1010.8	999.6	994.0	988.3	977.1
27.5°	7345.2	6457.9	3526.6	1207.3	1022.0	982.7	960.3	949.0	943.4	932.2	943.4
30°	7502.4	6452.3	2981.9	1055.7	965.9	926.6	904.1	898.5	887.3	881.6	887.3
32.5°	7771.9	6598.3	2420.3	977.1	904.1	870.4	847.9	842.3	836.7	831.1	825.5
35°	8350.3	6778.0	1892.4	915.3	847.9	808.6	791.8	780.6	774.9	769.3	763.7
37.5°	9063.5	7176.7	1443.2	859.2	791.8	752.5	735.6	730.0	707.6	701.9	696.3
40°	9956.4	7603.5	1111.9	797.4	741.3	701.9	685.1	668.3	640.2	628.9	617.7
42.5°	11068.3	8019.0	915.3	741.3	685.1	657.0	628.9	600.9	578.4	555.9	544.7
45°	12180.2	8502.0	803.0	690.7	640.2	606.5	584.0	544.7	505.4	471.7	466.1
47.5°	13106.7	8676.0	735.6	634.6	595.2	567.2	533.5	482.9	426.8	393.1	387.5
50°	13797.4	8575.0	668.3	578.4	544.7	516.6	471.7	409.9	353.8	320.1	308.9
52.5°	13932.2	8131.3	606.5	533.5	494.2	460.5	409.9	342.5	280.8	247.1	241.5
55°	13836.7	7395.7	555.9	494.2	449.2	398.7	342.5	275.2	219.0	185.3	179.7
57.5°	13640.2	6525.3	499.8	443.6	393.1	342.5	280.8	224.6	162.9	129.2	129.2
60°	12971.9	5340.4	443.6	387.5	336.9	292.0	230.2	162.9	112.3	84.2	78.6
62.5°	12039.8	4105.0	387.5	331.3	292.0	241.5	179.7	117.9	67.4	44.9	44.9
65°	10338.3	2875.2	325.7	275.2	241.5	196.5	134.8	73.0	39.3	16.8	16.8
67.5°	7856.2	1780.1	269.5	230.2	207.8	157.2	95.5	44.9	16.8	5.6	0.0
70°	4509.3	926.6	213.4	185.3	162.9	117.9	67.4	22.5	11.2	0.0	0.0
71°	3150.3	685.1	190.9	162.9	146.0	106.7	56.2	16.8	5.6	0.0	0.0
72.5°	1578.0	454.9	162.9	134.8	117.9	84.2	44.9	16.8	5.6	0.0	0.0
75°	561.6	292.0	112.3	89.8	84.2	61.8	28.1	11.2	5.6	0.0	0.0
77.5°	387.5	235.9	78.6	56.2	56.2	39.3	16.8	5.6	5.6	0.0	0.0
80°	353.8	129.2	50.5	33.7	28.1	22.5	11.2	5.6	0.0	0.0	0.0
82.5°	353.8	95.5	28.1	22.5	16.8	11.2	5.6	0.0	0.0	0.0	0.0
85°	247.1	50.5	16.8	16.8	11.2	5.6	0.0	0.0	0.0	0.0	0.0
87.5°	39.3	16.8	11.2	5.6	5.6	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)