

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: P484779

Luminaire Tested: **IFLD-L-SA8C-735-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484779  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-735-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

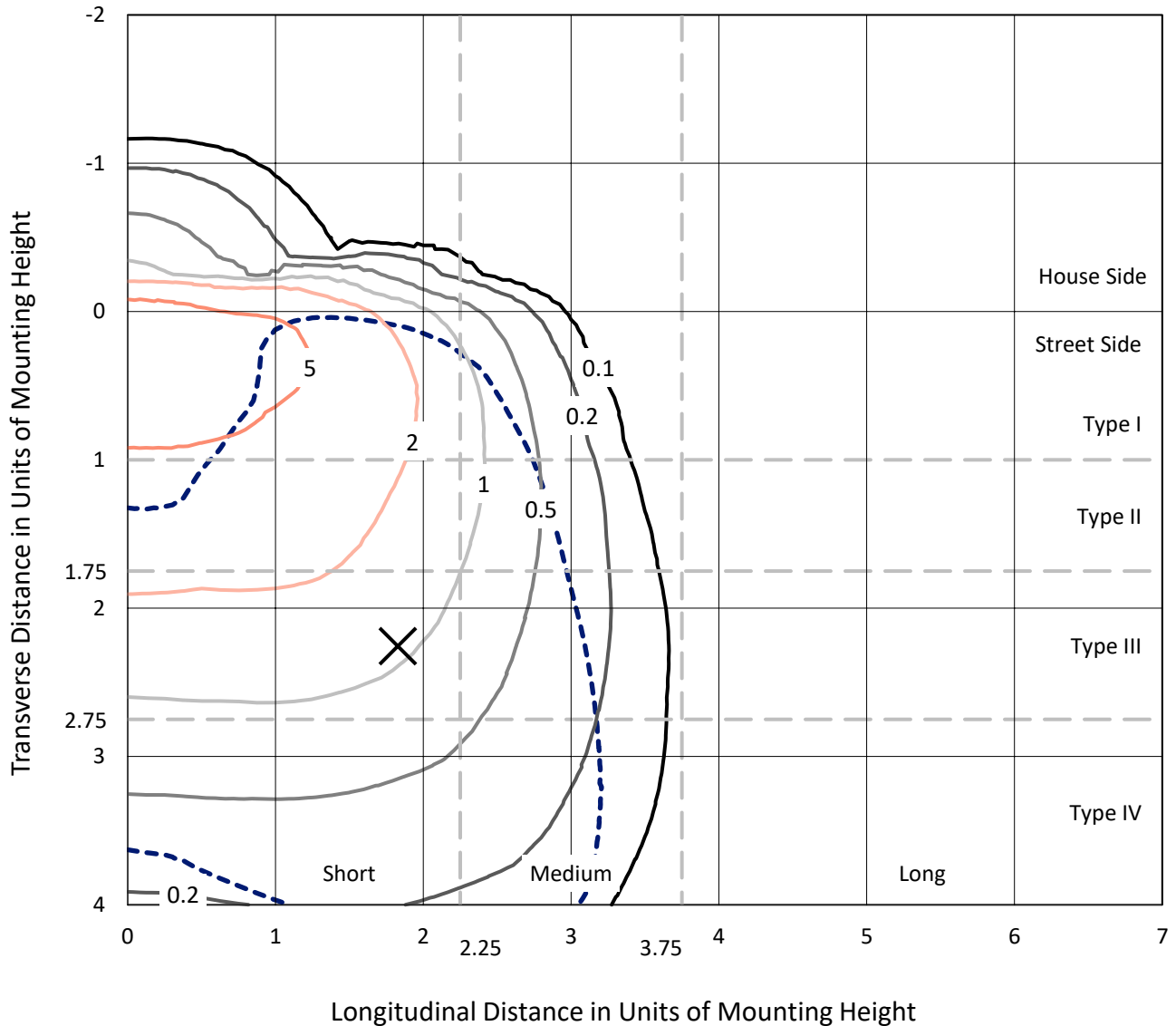
Lumens per Lamp: N/A  
Luminaire Lumens: 41281 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

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

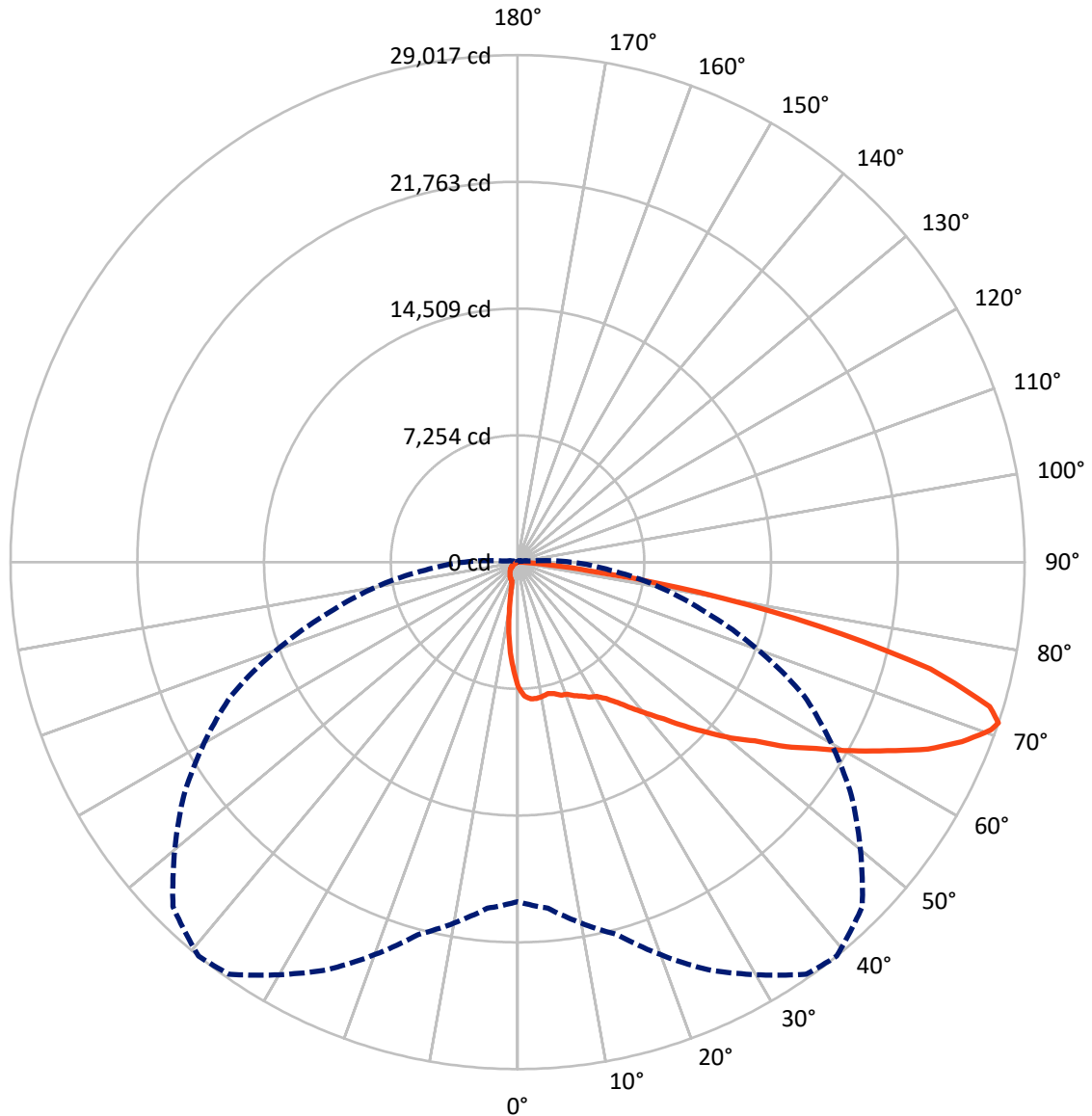
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 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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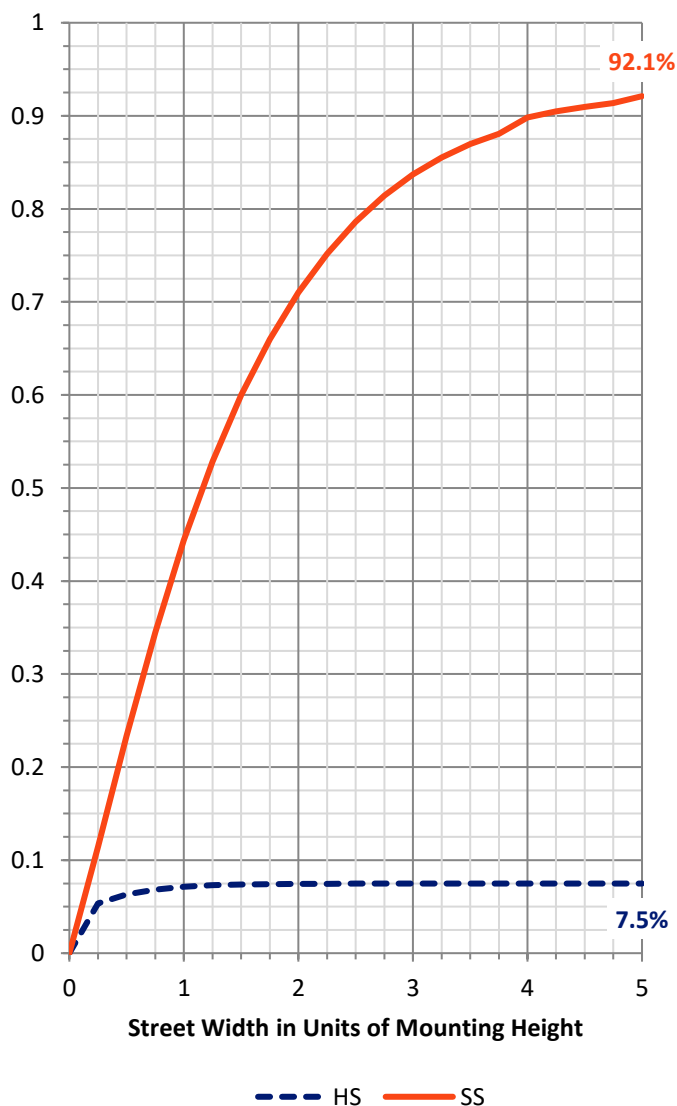
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3107.8	0.0	3107.8
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	38173.2	0.0	38173.2
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	41281.0	0.0	41281.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	600.7	1.5
10°-20°	1478.6	3.6
20°-30°	2373.7	5.8
30°-40°	3633.5	8.8
40°-50°	5832.4	14.1
50°-60°	8566.9	20.8
60°-70°	10789.7	26.1
70°-80°	7200.8	17.4
80°-90°	804.7	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°	41281.0	100.0
0°-180°	41281.0	100.0

**Coefficient of Utilization**



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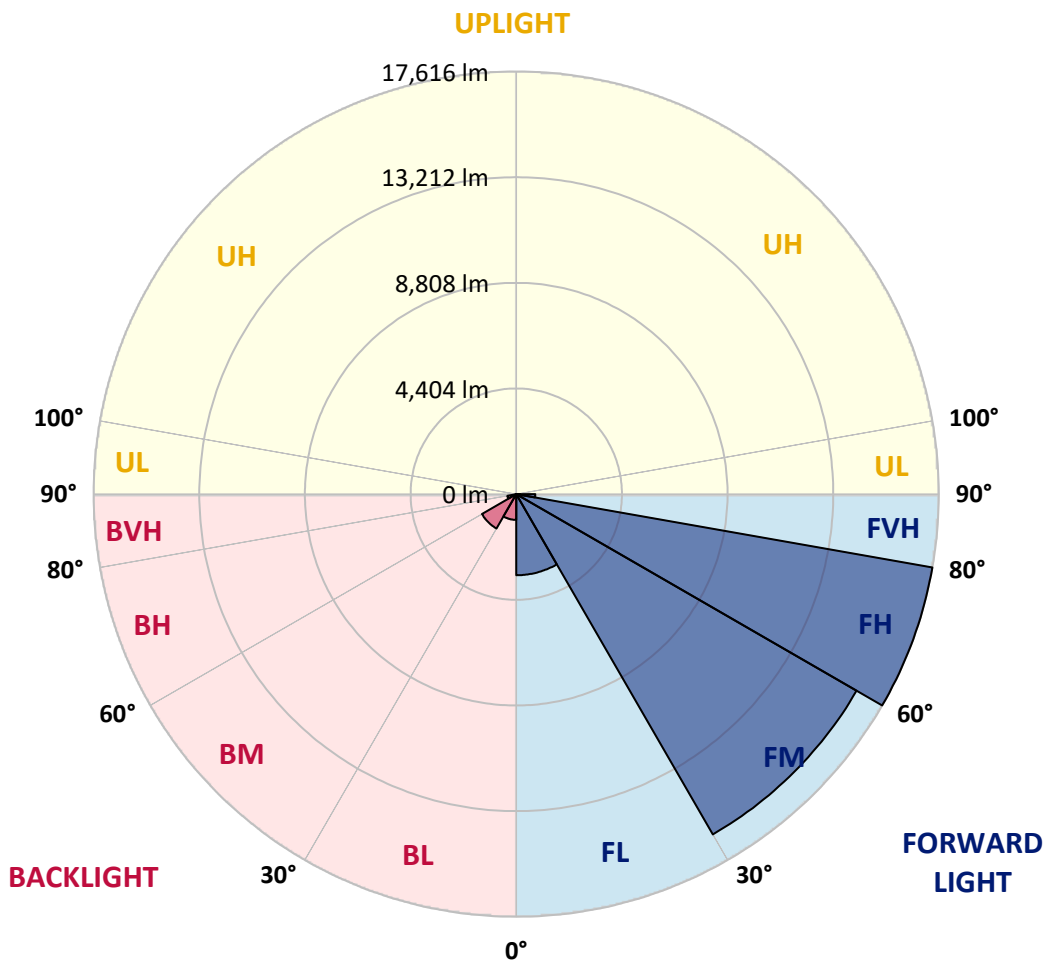
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3380.0	8.2			
FM (30°-60°)	16380.9	39.7			
FH (60°-80°)	17616.4	42.7			G5
FVH (80°-90°)	795.9	1.9			G5
BL (0°-30°)	1073.0	2.6	B3/2500		
BM (30°-60°)	1651.9	4.0	B2/2500		
BH (60°-80°)	374.0	0.9	B1/500		G1/500
BVH (80°-90°)	8.9	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°	7185.2	7185.2	7185.2	7185.2	7185.2	7185.2	7185.2	7185.2	7185.2	7185.2	7185.2
2.5°	7742.9	7818.7	7742.9	7710.4	7678.0	7683.4	7596.7	7613.0	7510.1	7374.7	7266.4
5°	7986.6	8089.5	8008.2	7970.3	7964.9	7862.0	7818.7	7715.9	7591.3	7380.1	7250.2
7.5°	7964.9	7943.3	7981.2	7948.7	7878.3	7878.3	7829.6	7683.4	7558.8	7320.6	7098.6
10°	7802.5	7867.5	7835.0	7797.1	7813.3	7818.7	7726.7	7623.8	7585.9	7347.7	6984.9
12.5°	7786.2	7678.0	7797.1	7802.5	7732.1	7726.7	7715.9	7688.8	7569.7	7353.1	7012.0
15°	7732.1	7688.8	7807.9	7813.3	7829.6	7813.3	7829.6	7807.9	7688.8	7564.2	7131.1
17.5°	7775.4	7726.7	7894.5	7975.8	7937.9	8013.7	7986.6	7889.1	7786.2	7640.0	7244.8
20°	7786.2	7856.6	8040.7	8073.2	8192.3	8067.8	8062.4	7959.5	7894.5	7737.5	7315.2
22.5°	7986.6	8019.1	8246.5	8316.9	8322.3	8306.0	8170.7	8051.6	8024.5	7829.6	7331.4
25°	8289.8	8403.5	8506.4	8549.7	8566.0	8490.1	8349.4	8197.8	8132.8	8008.2	7499.3
27.5°	8825.9	8755.5	8847.5	8912.5	8728.4	8755.5	8576.8	8446.8	8354.8	8246.5	7694.2
30°	9302.3	9237.4	9242.8	9232.0	9074.9	8928.7	8880.0	8652.6	8538.9	8582.2	7997.4
32.5°	9730.1	9589.3	9708.4	9654.3	9361.9	9318.6	9280.7	8993.7	9015.4	9215.7	8452.2
35°	10125.4	10076.6	10174.1	10076.6	9881.7	9870.9	9833.0	9583.9	9703.0	9990.0	9232.0
37.5°	10488.1	10504.4	10623.5	10574.8	10591.0	10601.9	10580.2	10314.9	10656.0	11300.3	10141.6
40°	10823.9	10802.2	11094.6	11246.2	11278.7	11397.8	11397.8	11332.8	11858.0	12583.6	11403.2
42.5°	11181.2	11235.4	11614.4	11868.9	12177.5	12280.4	12421.2	12453.7	13265.9	14094.3	12691.9
45°	11766.0	11674.0	12155.9	12756.9	13027.6	13390.4	13607.0	13791.1	14771.1	15908.2	13980.6
47.5°	12507.8	12323.7	12746.0	13617.8	14245.9	14543.7	14933.6	15177.2	16135.6	17310.6	15198.9
50°	13330.8	13141.3	13347.1	14549.1	15280.1	15821.6	16319.7	16628.3	17787.1	18880.8	16086.9
52.5°	14262.1	14088.9	14121.4	15518.3	16595.9	16991.1	17646.3	18106.5	19259.9	19828.4	16400.9
55°	15253.0	15209.7	15106.8	16465.9	17749.2	18637.2	19032.4	19584.7	20770.5	20342.8	16742.0
57.5°	16249.3	16114.0	16260.1	17722.1	19601.0	20131.6	20678.5	21008.8	21609.8	20792.2	16612.1
60°	17186.0	17196.9	17402.6	19086.6	21176.6	21929.3	22422.0	22221.7	22470.7	20987.1	16314.3
62.5°	17976.6	17954.9	18474.7	20618.9	23261.3	23770.2	24138.4	23245.0	22871.4	21176.6	15794.5
65°	18685.9	18929.6	19747.2	22443.7	25221.4	25806.1	25584.1	24214.2	23261.3	20618.9	14332.5
67.5°	19222.0	19584.7	21003.4	24160.1	27019.0	27430.5	27121.9	24950.6	22801.0	18431.4	11674.0
70°	19536.0	19904.2	21902.2	25589.6	28453.9	28751.7	28026.1	24382.1	20115.4	13347.1	7282.7
71°	19438.5	19888.0	22075.5	25741.2	28795.0	29017.0	27890.8	23331.7	18090.3	11175.8	5311.8
72.5°	18556.0	18978.3	21355.3	25632.9	28383.5	28248.1	26834.9	20808.4	14240.5	7125.7	2745.2
75°	13634.0	14088.9	18328.5	22172.9	25335.1	24403.8	21718.1	14603.3	7428.9	2182.1	801.4
77.5°	6790.0	6865.8	11376.1	16097.7	18583.0	17657.1	14554.5	8143.6	2777.7	644.3	400.7
80°	3129.7	3151.3	4266.7	8338.5	11235.4	10574.8	8154.4	4017.7	1256.2	341.1	314.0
82.5°	2133.4	2165.9	2572.0	3454.5	4878.6	4115.1	3302.9	2572.0	720.1	205.8	308.6
85°	389.9	357.4	1440.3	1830.1	1884.3	1277.9	1142.5	2225.4	270.7	119.1	270.7
87.5°	0.0	5.4	200.3	747.2	671.4	297.8	389.9	541.5	27.1	37.9	48.7
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°	7185.2	7185.2	7185.2	7185.2	7185.2	7185.2	7185.2	7185.2	7185.2	7185.2	7185.2
2.5°	7174.4	7114.8	6914.5	6692.5	6492.1	6335.1	6134.8	6042.7	5896.5	5815.3	5809.9
5°	7071.5	6909.1	6562.5	6188.9	5772.0	5425.5	5041.0	4824.4	4575.4	4499.6	4483.3
7.5°	6898.2	6665.4	6156.4	5631.2	4992.3	4380.4	3909.4	3405.8	3097.2	2967.2	2918.5
10°	6790.0	6508.4	5815.3	5030.2	4136.8	3275.9	2615.3	2079.2	1797.7	1662.3	1629.8
12.5°	6790.0	6486.7	5539.2	4456.2	3270.4	2241.7	1619.0	1310.3	1218.3	1185.8	1185.8
15°	6773.7	6443.4	5273.9	3866.0	2420.3	1505.3	1207.5	1142.5	1131.7	1126.2	1120.8
17.5°	6854.9	6367.6	5003.1	3232.5	1711.0	1185.8	1110.0	1099.2	1088.3	1088.3	1077.5
20°	6914.5	6324.3	4678.2	2561.1	1277.9	1099.2	1066.7	1050.4	1045.0	1039.6	1050.4
22.5°	6865.8	6259.3	4277.6	1916.8	1115.4	1045.0	1023.4	1007.1	996.3	996.3	1001.7
25°	6957.8	6199.8	3876.9	1445.7	1045.0	996.3	974.6	963.8	958.4	953.0	942.1
27.5°	7082.3	6226.8	3400.4	1164.1	985.5	947.6	925.9	915.1	909.7	898.8	909.7
30°	7234.0	6221.4	2875.2	1018.0	931.3	893.4	871.8	866.3	855.5	850.1	855.5
32.5°	7493.9	6362.2	2333.7	942.1	871.8	839.3	817.6	812.2	806.8	801.4	796.0
35°	8051.6	6535.5	1824.7	882.6	817.6	779.7	763.5	752.6	747.2	741.8	736.4
37.5°	8739.2	6919.9	1391.6	828.4	763.5	725.6	709.3	703.9	682.2	676.8	671.4
40°	9600.1	7331.4	1072.1	768.9	714.7	676.8	660.6	644.3	617.3	606.4	595.6
42.5°	10672.2	7732.1	882.6	714.7	660.6	633.5	606.4	579.4	557.7	536.0	525.2
45°	11744.3	8197.8	774.3	666.0	617.3	584.8	563.1	525.2	487.3	454.8	449.4
47.5°	12637.8	8365.6	709.3	611.9	574.0	546.9	514.4	465.7	411.5	379.0	373.6
50°	13303.8	8268.1	644.3	557.7	525.2	498.1	454.8	395.3	341.1	308.6	297.8
52.5°	13433.7	7840.4	584.8	514.4	476.5	444.0	395.3	330.3	270.7	238.2	232.8
55°	13341.7	7131.1	536.0	476.5	433.2	384.4	330.3	265.3	211.2	178.7	173.3
57.5°	13152.1	6291.8	481.9	427.8	379.0	330.3	270.7	216.6	157.0	124.5	124.5
60°	12507.8	5149.3	427.8	373.6	324.9	281.6	222.0	157.0	108.3	81.2	75.8
62.5°	11609.0	3958.1	373.6	319.5	281.6	232.8	173.3	113.7	65.0	43.3	43.3
65°	9968.3	2772.3	314.0	265.3	232.8	189.5	130.0	70.4	37.9	16.2	16.2
67.5°	7575.1	1716.4	259.9	222.0	200.3	151.6	92.0	43.3	16.2	5.4	0.0
70°	4348.0	893.4	205.8	178.7	157.0	113.7	65.0	21.7	10.8	0.0	0.0
71°	3037.6	660.6	184.1	157.0	140.8	102.9	54.1	16.2	5.4	0.0	0.0
72.5°	1521.5	438.6	157.0	130.0	113.7	81.2	43.3	16.2	5.4	0.0	0.0
75°	541.5	281.6	108.3	86.6	81.2	59.6	27.1	10.8	5.4	0.0	0.0
77.5°	373.6	227.4	75.8	54.1	54.1	37.9	16.2	5.4	5.4	0.0	0.0
80°	341.1	124.5	48.7	32.5	27.1	21.7	10.8	5.4	0.0	0.0	0.0
82.5°	341.1	92.0	27.1	21.7	16.2	10.8	5.4	0.0	0.0	0.0	0.0
85°	238.2	48.7	16.2	16.2	10.8	5.4	0.0	0.0	0.0	0.0	0.0
87.5°	37.9	16.2	10.8	5.4	5.4	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)