

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: P484750

Luminaire Tested: **IFLD-S-SA3D-735-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484750  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-735-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

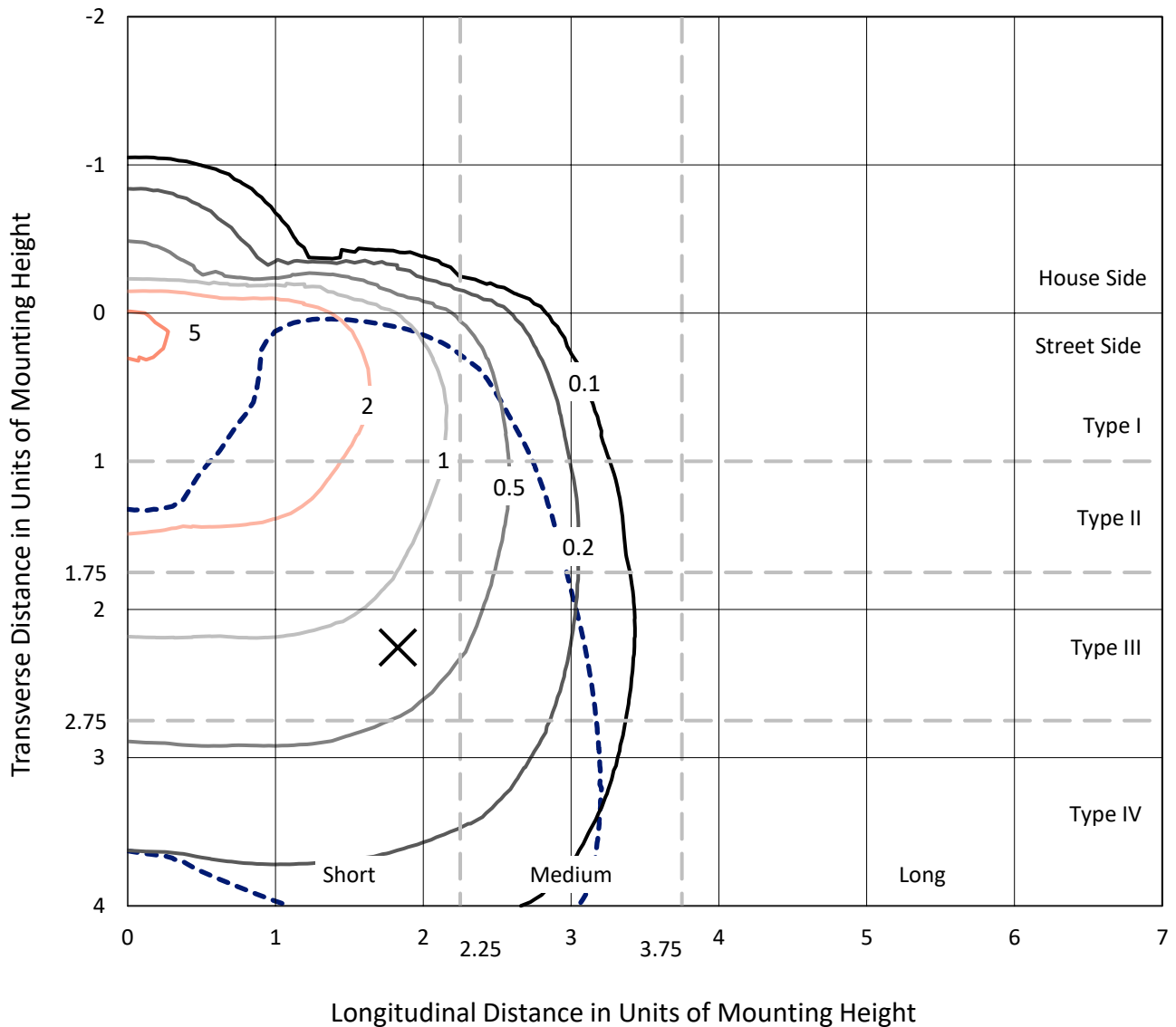
Lumens per Lamp: N/A  
Luminaire Lumens: 18990.5 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G4

Input Watts (W): 184.1  
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

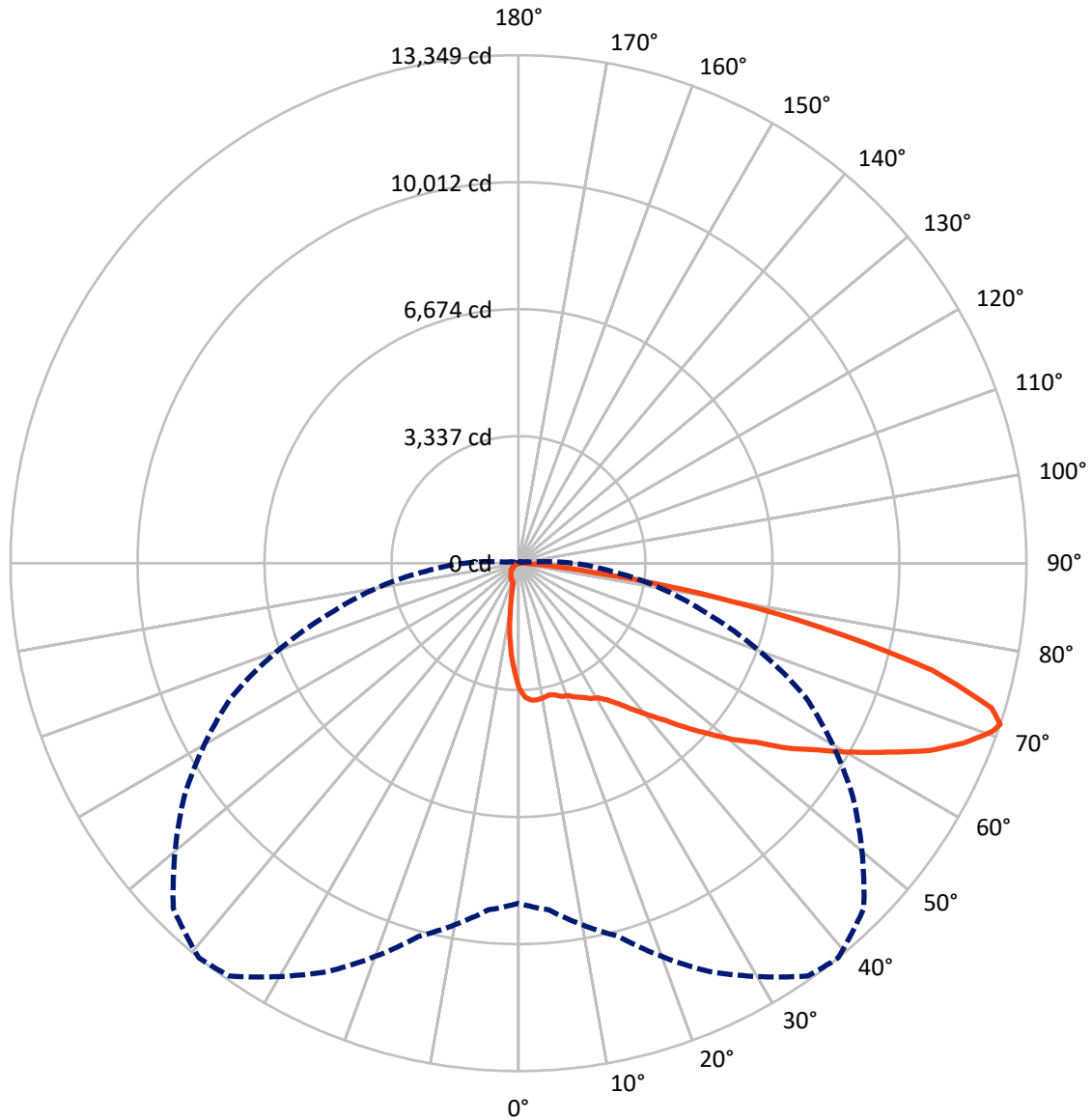
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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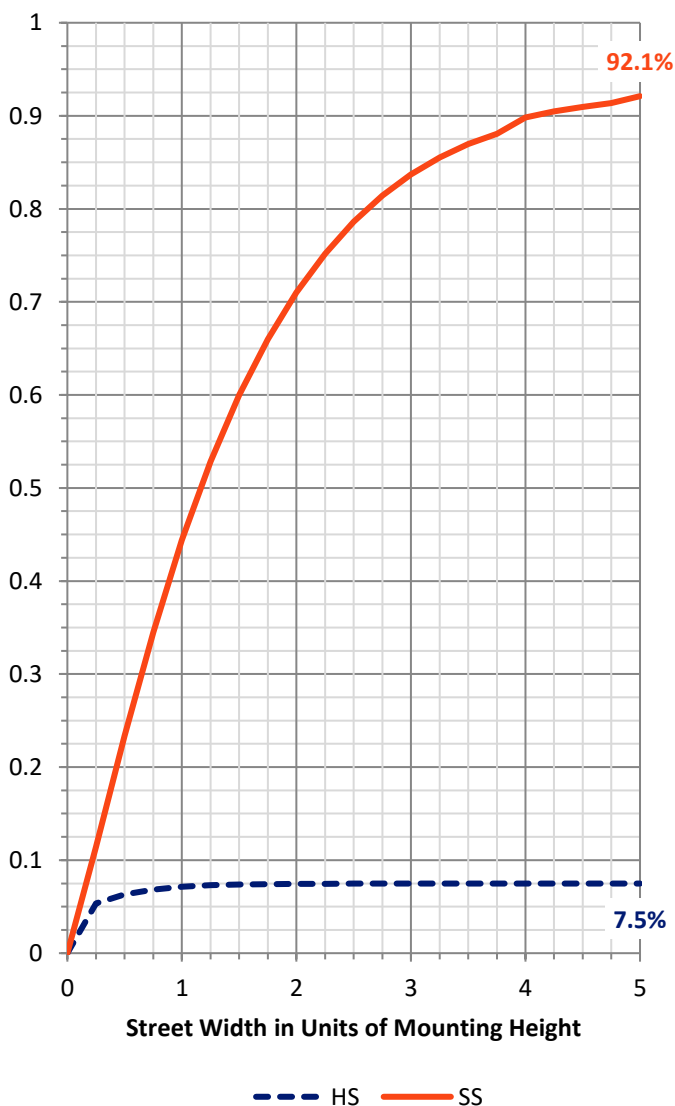
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1429.7	0.0	1429.7
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	17560.9	0.0	17560.9
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	18990.5	0.0	18990.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.4	1.5
10°-20°	680.2	3.6
20°-30°	1092.0	5.7
30°-40°	1671.5	8.8
40°-50°	2683.1	14.1
50°-60°	3941.0	20.8
60°-70°	4963.6	26.1
70°-80°	3312.6	17.4
80°-90°	370.2	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°	18990.5	100.0
0°-180°	18990.5	100.0

**Coefficient of Utilization**



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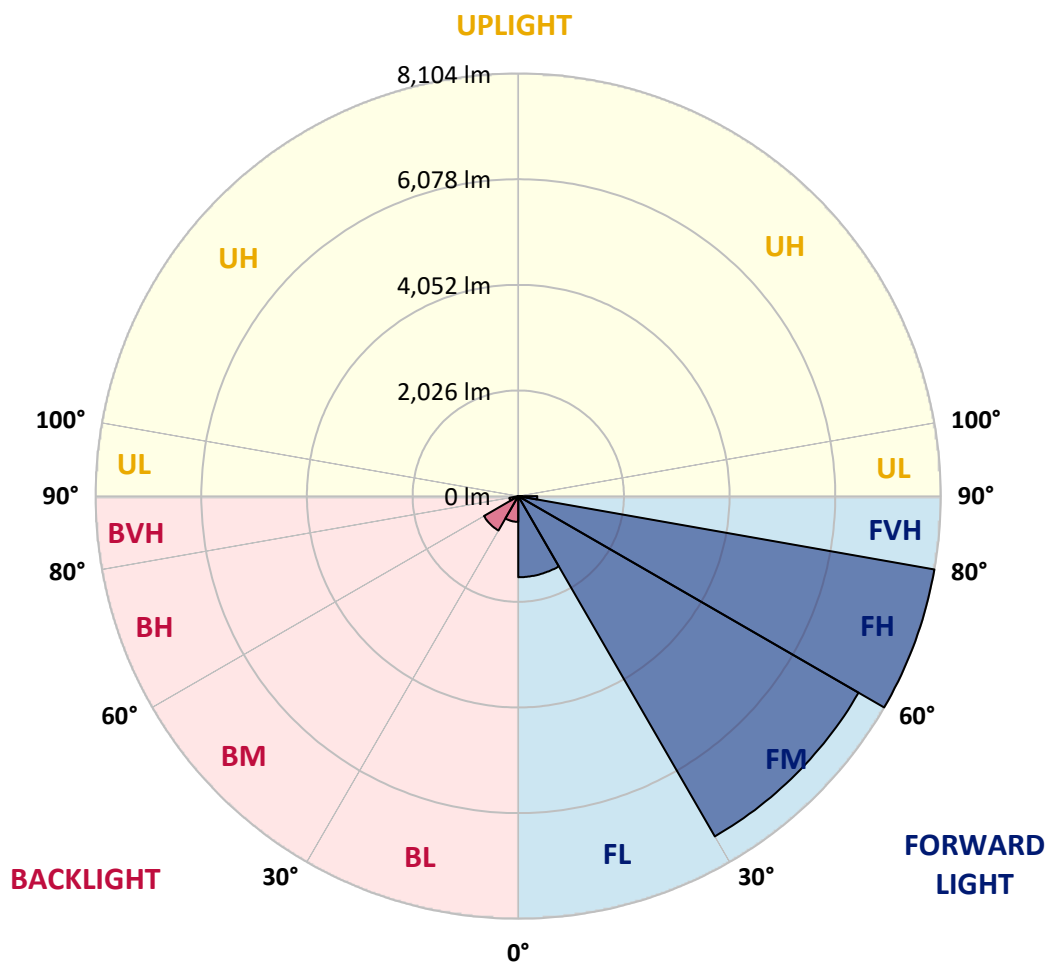
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1554.9	8.2			
FM	(30°-60°)	7535.7	39.7			
FH	(60°-80°)	8104.1	42.7			G4/12000
FVH	(80°-90°)	366.1	1.9			G3/500
BL	(0°-30°)	493.6	2.6	B1/500		
BM	(30°-60°)	759.9	4.0	B1/1000		
BH	(60°-80°)	172.1	0.9	B1/500		G1/500
BVH	(80°-90°)	4.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3305.4	3305.4	3305.4	3305.4	3305.4	3305.4	3305.4	3305.4	3305.4	3305.4	3305.4
2.5°	3562.0	3596.9	3562.0	3547.0	3532.1	3534.6	3494.7	3502.2	3454.9	3392.6	3342.8
5°	3674.1	3721.4	3684.0	3666.6	3664.1	3616.8	3596.9	3549.5	3492.2	3395.1	3335.3
7.5°	3664.1	3654.2	3671.6	3656.6	3624.3	3624.3	3601.8	3534.6	3477.3	3367.7	3265.6
10°	3589.4	3619.3	3604.3	3586.9	3594.4	3596.9	3554.5	3507.2	3489.8	3380.2	3213.3
12.5°	3581.9	3532.1	3586.9	3589.4	3557.0	3554.5	3549.5	3537.1	3482.3	3382.6	3225.7
15°	3557.0	3537.1	3591.9	3594.4	3601.8	3594.4	3601.8	3591.9	3537.1	3479.8	3280.5
17.5°	3576.9	3554.5	3631.7	3669.1	3651.7	3686.5	3674.1	3629.2	3581.9	3514.7	3332.8
20°	3581.9	3614.3	3699.0	3713.9	3768.7	3711.4	3709.0	3661.6	3631.7	3559.5	3365.2
22.5°	3674.1	3689.0	3793.6	3826.0	3828.5	3821.0	3758.8	3704.0	3691.5	3601.8	3372.7
25°	3813.6	3865.9	3913.2	3933.1	3940.6	3905.7	3841.0	3771.2	3741.3	3684.0	3449.9
27.5°	4060.2	4027.8	4070.1	4100.0	4015.3	4027.8	3945.6	3885.8	3843.5	3793.6	3539.6
30°	4279.4	4249.5	4252.0	4247.0	4174.7	4107.5	4085.1	3980.5	3928.2	3948.1	3679.1
32.5°	4476.1	4411.4	4466.2	4441.3	4306.8	4286.8	4269.4	4137.4	4147.3	4239.5	3888.3
35°	4658.0	4635.6	4680.4	4635.6	4545.9	4540.9	4523.5	4408.9	4463.7	4595.7	4247.0
37.5°	4824.9	4832.3	4887.1	4864.7	4872.2	4877.2	4867.2	4745.2	4902.1	5198.5	4665.5
40°	4979.3	4969.3	5103.9	5173.6	5188.5	5243.3	5243.3	5213.5	5455.1	5788.9	5245.8
42.5°	5143.7	5168.6	5343.0	5460.1	5602.0	5649.4	5714.1	5729.1	6102.7	6483.8	5838.7
45°	5412.7	5370.4	5592.1	5868.6	5993.1	6160.0	6259.6	6344.3	6795.2	7318.3	6431.5
47.5°	5754.0	5669.3	5863.6	6264.6	6553.6	6690.6	6869.9	6982.0	7422.9	7963.4	6992.0
50°	6132.6	6045.4	6140.1	6693.1	7029.3	7278.4	7507.6	7649.6	8182.6	8685.8	7400.5
52.5°	6561.0	6481.3	6496.3	7138.9	7634.6	7816.4	8117.8	8329.6	8860.1	9121.7	7544.9
55°	7016.9	6996.9	6949.6	7574.8	8165.2	8573.7	8755.5	9009.6	9555.1	9358.3	7701.9
57.5°	7475.2	7412.9	7480.2	8152.7	9017.1	9261.2	9512.7	9664.7	9941.2	9565.1	7642.1
60°	7906.1	7911.1	8005.8	8780.4	9741.9	10088.1	10314.8	10222.7	10337.2	9654.7	7505.1
62.5°	8269.8	8259.8	8499.0	9485.4	10700.9	10935.1	11104.4	10693.4	10521.6	9741.9	7266.0
65°	8596.1	8708.2	9084.3	10324.8	11602.6	11871.6	11769.5	11139.3	10700.9	9485.4	6593.4
67.5°	8842.7	9009.6	9662.2	11114.4	12429.6	12618.9	12476.9	11478.1	10489.2	8479.0	5370.4
70°	8987.2	9156.6	10075.7	11772.0	13089.7	13226.7	12892.9	11216.5	9253.7	6140.1	3350.3
71°	8942.3	9149.1	10155.4	11841.7	13246.6	13348.7	12830.6	10733.3	8322.1	5141.2	2443.6
72.5°	8536.3	8730.6	9824.1	11791.9	13057.3	12995.0	12344.9	9572.5	6551.1	3278.0	1262.9
75°	6272.1	6481.3	8431.7	10200.2	11654.9	11226.5	9991.0	6718.0	3417.5	1003.8	368.7
77.5°	3123.6	3158.5	5233.4	7405.4	8548.8	8122.8	6695.5	3746.3	1277.8	296.4	184.3
80°	1439.7	1449.7	1962.8	3836.0	5168.6	4864.7	3751.3	1848.2	577.9	156.9	144.5
82.5°	981.4	996.4	1183.2	1589.2	2244.3	1893.1	1519.4	1183.2	331.3	94.7	142.0
85°	179.3	164.4	662.6	841.9	866.8	587.9	525.6	1023.8	124.5	54.8	124.5
87.5°	0.0	2.5	92.2	343.7	308.9	137.0	179.3	249.1	12.5	17.4	22.4
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°	3305.4	3305.4	3305.4	3305.4	3305.4	3305.4	3305.4	3305.4	3305.4	3305.4	3305.4
2.5°	3300.4	3273.0	3180.9	3078.8	2986.6	2914.4	2822.2	2779.8	2712.6	2675.2	2672.7
5°	3253.1	3178.4	3019.0	2847.1	2655.3	2495.9	2319.0	2219.4	2104.8	2069.9	2062.5
7.5°	3173.4	3066.3	2832.2	2590.5	2296.6	2015.1	1798.4	1566.8	1424.8	1365.0	1342.6
10°	3123.6	2994.1	2675.2	2314.0	1903.0	1507.0	1203.1	956.5	827.0	764.7	749.8
12.5°	3123.6	2984.1	2548.2	2050.0	1504.5	1031.2	744.8	602.8	560.5	545.5	545.5
15°	3116.1	2964.2	2426.1	1778.5	1113.4	692.5	555.5	525.6	520.6	518.1	515.6
17.5°	3153.5	2929.3	2301.6	1487.1	787.1	545.5	510.6	505.7	500.7	500.7	495.7
20°	3180.9	2909.4	2152.1	1178.2	587.9	505.7	490.7	483.2	480.7	478.3	483.2
22.5°	3158.5	2879.5	1967.8	881.8	513.1	480.7	470.8	463.3	458.3	458.3	460.8
25°	3200.8	2852.1	1783.5	665.1	480.7	458.3	448.4	443.4	440.9	438.4	433.4
27.5°	3258.1	2864.5	1564.3	535.5	453.3	435.9	425.9	421.0	418.5	413.5	418.5
30°	3327.8	2862.0	1322.7	468.3	428.4	411.0	401.0	398.5	393.6	391.1	393.6
32.5°	3447.4	2926.8	1073.6	433.4	401.0	386.1	376.1	373.6	371.1	368.7	366.2
35°	3704.0	3006.5	839.4	406.0	376.1	358.7	351.2	346.2	343.7	341.3	338.8
37.5°	4020.3	3183.4	640.2	381.1	351.2	333.8	326.3	323.8	313.9	311.4	308.9
40°	4416.4	3372.7	493.2	353.7	328.8	311.4	303.9	296.4	284.0	279.0	274.0
42.5°	4909.6	3557.0	406.0	328.8	303.9	291.4	279.0	266.5	256.6	246.6	241.6
45°	5402.8	3771.2	356.2	306.4	284.0	269.0	259.1	241.6	224.2	209.2	206.7
47.5°	5813.8	3848.4	326.3	281.5	264.0	251.6	236.6	214.2	189.3	174.4	171.9
50°	6120.1	3803.6	296.4	256.6	241.6	229.2	209.2	181.8	156.9	142.0	137.0
52.5°	6179.9	3606.8	269.0	236.6	219.2	204.3	181.8	151.9	124.5	109.6	107.1
55°	6137.6	3280.5	246.6	219.2	199.3	176.9	151.9	122.1	97.1	82.2	79.7
57.5°	6050.4	2894.4	221.7	196.8	174.4	151.9	124.5	99.6	72.2	57.3	57.3
60°	5754.0	2368.8	196.8	171.9	149.5	129.5	102.1	72.2	49.8	37.4	34.9
62.5°	5340.5	1820.8	171.9	147.0	129.5	107.1	79.7	52.3	29.9	19.9	19.9
65°	4585.7	1275.3	144.5	122.1	107.1	87.2	59.8	32.4	17.4	7.5	7.5
67.5°	3484.8	789.6	119.6	102.1	92.2	69.7	42.3	19.9	7.5	2.5	0.0
70°	2000.2	411.0	94.7	82.2	72.2	52.3	29.9	10.0	5.0	0.0	0.0
71°	1397.4	303.9	84.7	72.2	64.8	47.3	24.9	7.5	2.5	0.0	0.0
72.5°	699.9	201.8	72.2	59.8	52.3	37.4	19.9	7.5	2.5	0.0	0.0
75°	249.1	129.5	49.8	39.9	37.4	27.4	12.5	5.0	2.5	0.0	0.0
77.5°	171.9	104.6	34.9	24.9	24.9	17.4	7.5	2.5	2.5	0.0	0.0
80°	156.9	57.3	22.4	14.9	12.5	10.0	5.0	2.5	0.0	0.0	0.0
82.5°	156.9	42.3	12.5	10.0	7.5	5.0	2.5	0.0	0.0	0.0	0.0
85°	109.6	22.4	7.5	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	17.4	7.5	5.0	2.5	2.5	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)