

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: P836237

Luminaire Tested: **ARCH3-160-722-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836237
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-160-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19627 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 161
Input Voltage (V): NR
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

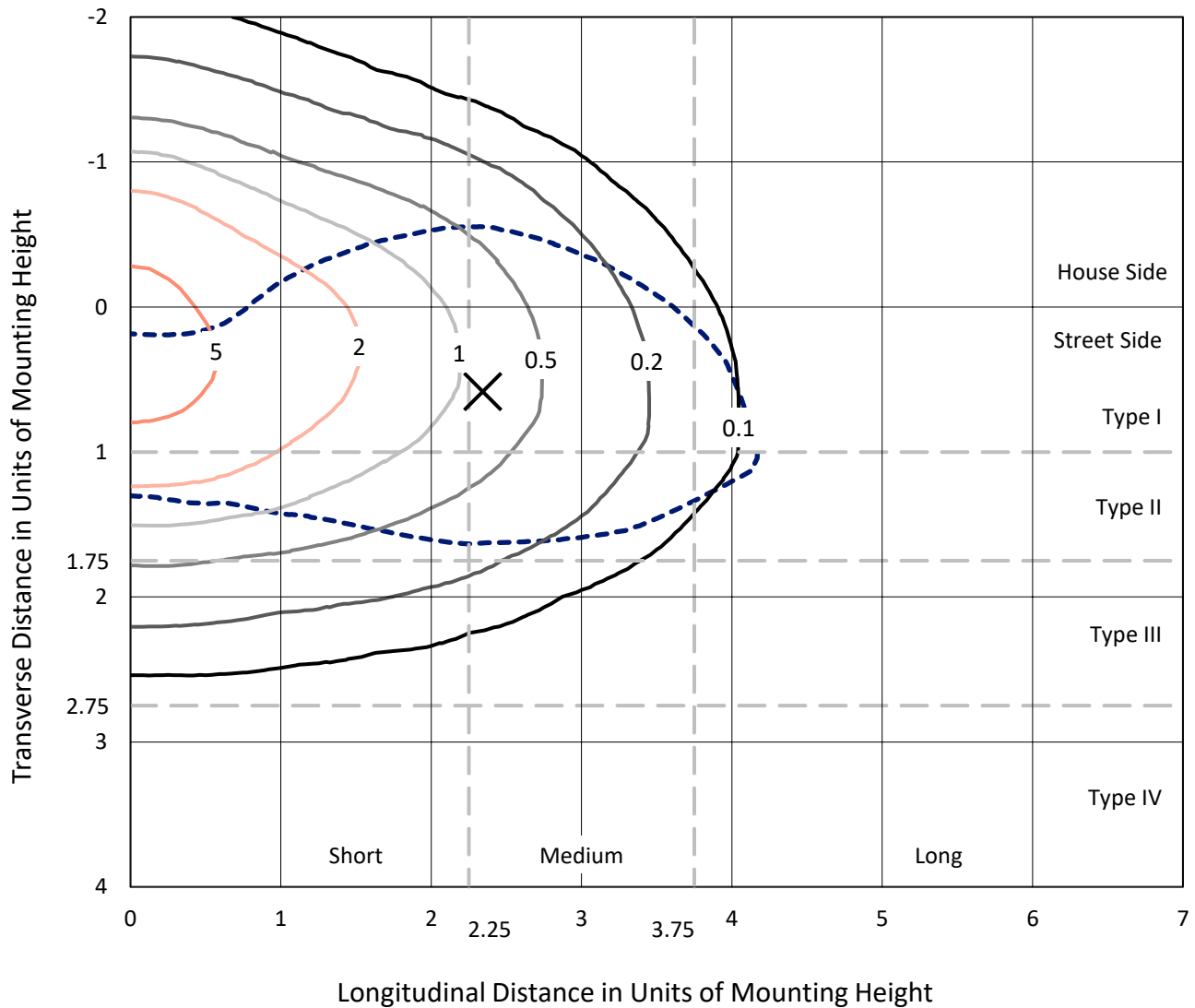


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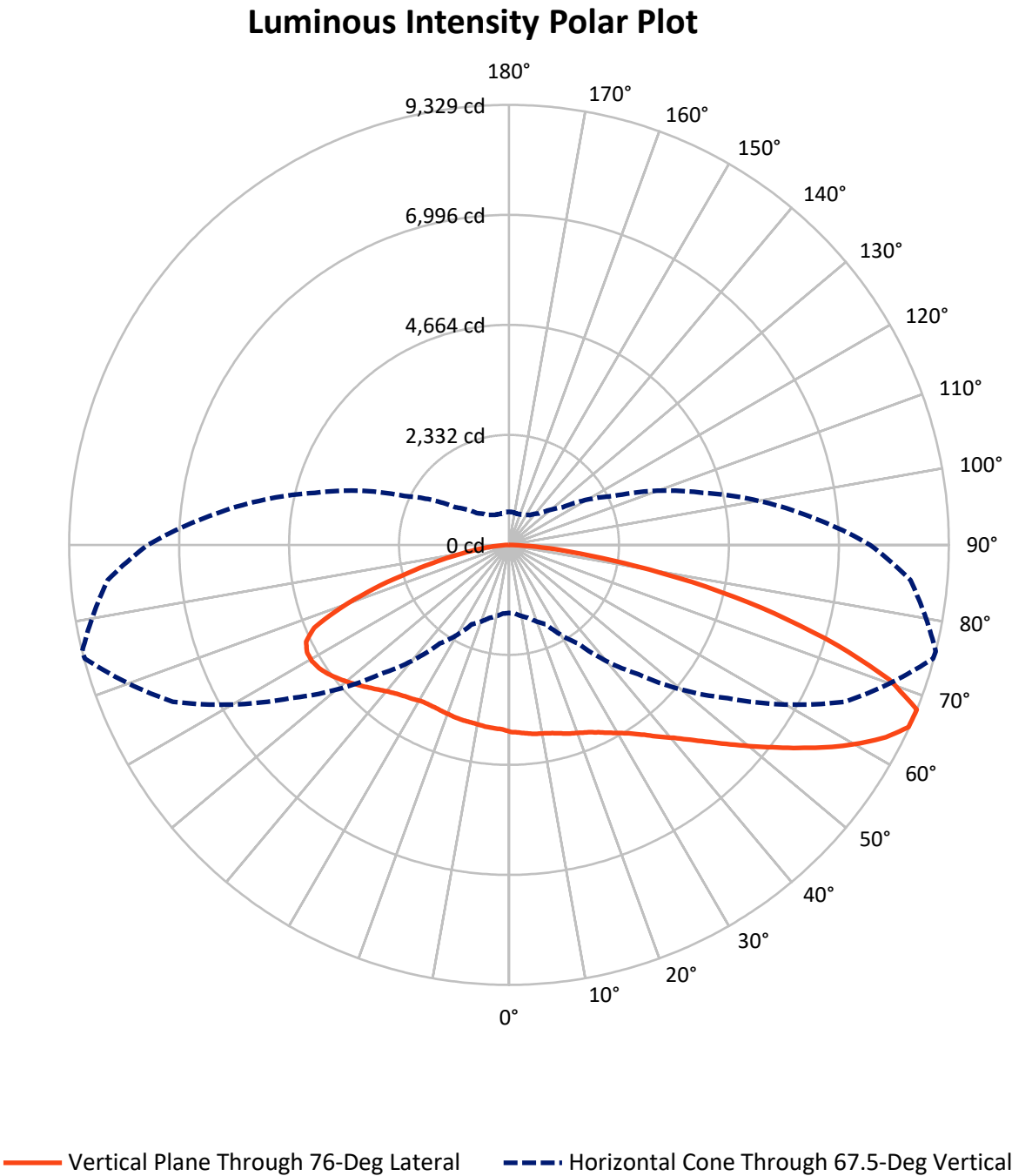
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
Type II - Medium - N/A

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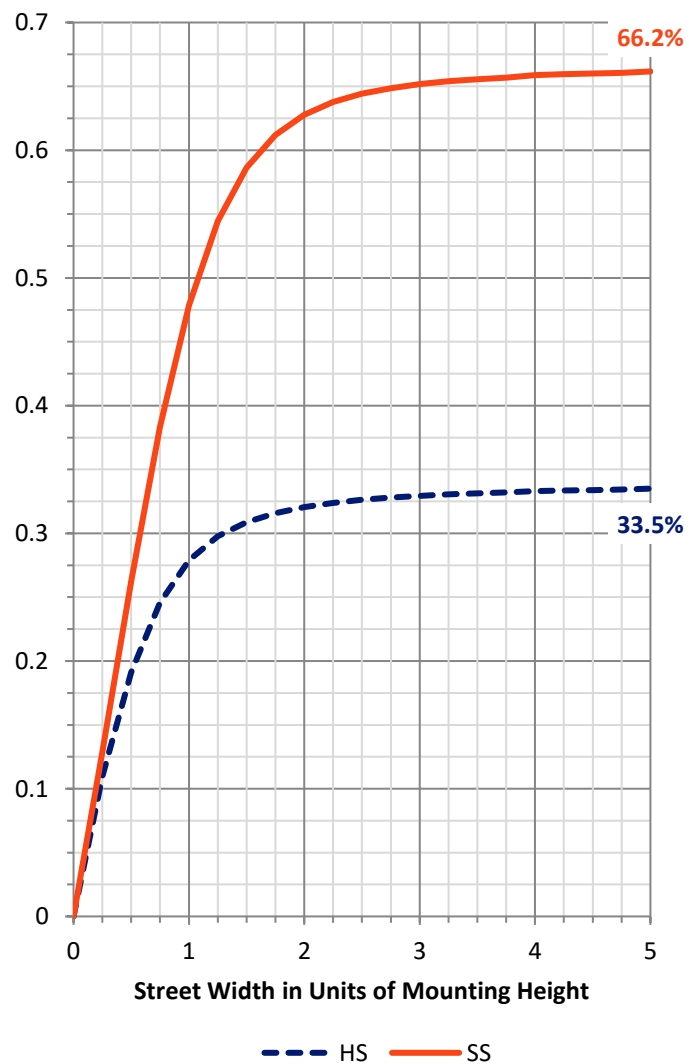
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6632.1	0.0	6632.1
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	12994.9	0.0	12994.9
	% Fixture	66.2	0.0	66.2
Total	Lumens	19627.0	0.0	19627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.3	1.9
10°-20°	1168.8	6.0
20°-30°	1985.8	10.1
30°-40°	2825.5	14.4
40°-50°	3568.4	18.2
50°-60°	3863.5	19.7
60°-70°	3593.5	18.3
70°-80°	1930.0	9.8
80°-90°	309.3	1.6
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°	19627.0	100.0
0°-180°	19627.0	100.0

Coefficient of Utilization



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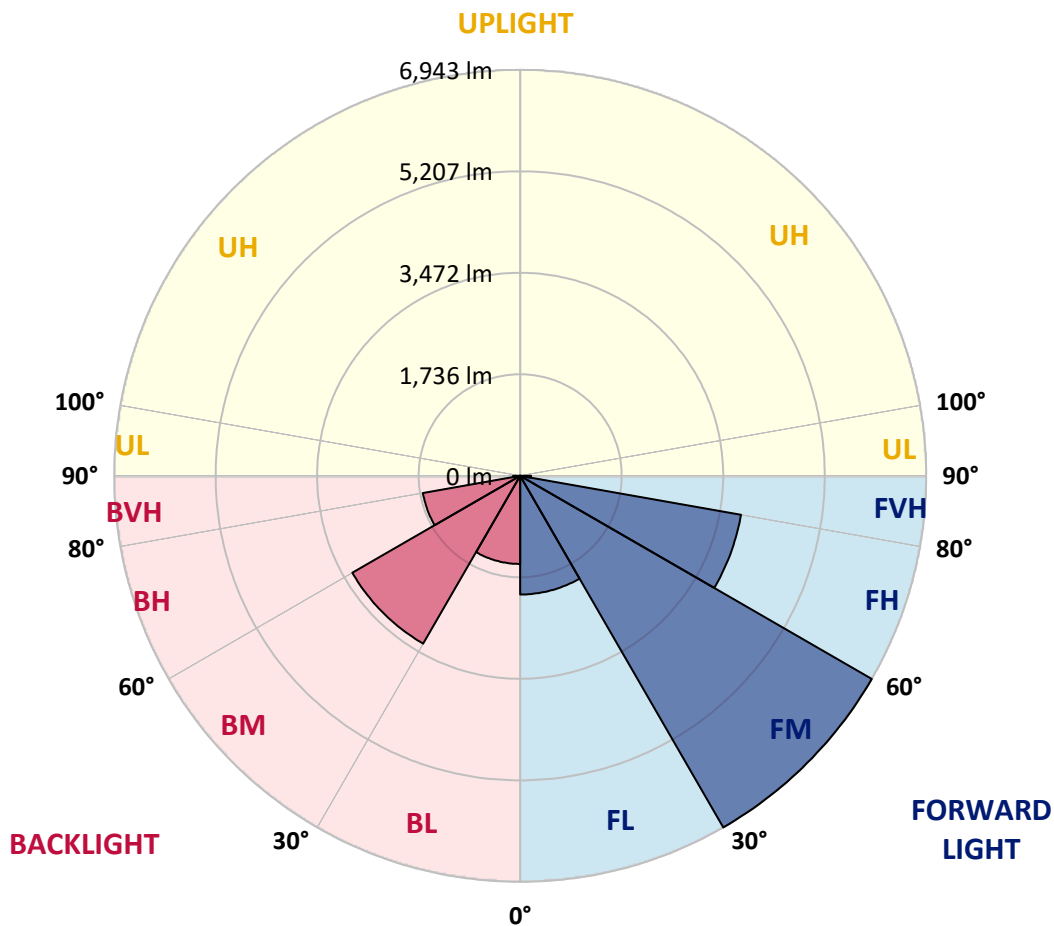
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2029.6	10.3			
FM	(30°-60°)	6943.3	35.4			
FH	(60°-80°)	3834.9	19.5			G2/5000
FVH	(80°-90°)	187.1	1.0			G2/225
BL	(0°-30°)	1507.2	7.7	B3/2500		
BM	(30°-60°)	3314.1	16.9	B3/5000		
BH	(60°-80°)	1688.6	8.6	B3/2500		G3/2500
BVH	(80°-90°)	122.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6
2.5°	4084.9	4077.6	4048.4	4052.1	4052.1	4048.4	4004.7	3986.5	3986.5	3982.8	3942.7
5°	4230.6	4219.7	4186.9	4179.6	4165.0	4146.8	4077.6	4037.5	4019.3	4015.6	3961.0
7.5°	4401.9	4387.3	4347.2	4325.4	4288.9	4241.6	4154.1	4092.1	4048.4	4044.8	3968.3
10°	4573.1	4558.6	4511.2	4471.1	4420.1	4343.6	4230.6	4139.5	4070.3	4063.0	3971.9
12.5°	4777.2	4762.6	4704.3	4653.3	4576.8	4474.8	4325.4	4201.5	4106.7	4095.8	3982.8
15°	4992.2	4970.3	4912.0	4853.7	4759.0	4627.8	4449.3	4285.3	4165.0	4146.8	4015.6
17.5°	5170.8	5141.6	5094.2	5035.9	4930.3	4777.2	4573.1	4369.1	4219.7	4205.1	4048.4
20°	5323.8	5301.9	5250.9	5196.3	5083.3	4915.7	4689.8	4452.9	4270.7	4252.5	4073.9
22.5°	5469.6	5440.4	5411.3	5371.2	5247.3	5061.4	4824.6	4554.9	4336.3	4314.4	4106.7
25°	5637.2	5604.4	5593.5	5571.6	5425.8	5236.3	4988.6	4682.5	4427.4	4401.9	4165.0
27.5°	5844.9	5808.4	5786.6	5786.6	5611.7	5414.9	5163.5	4831.9	4533.1	4511.2	4237.9
30°	6063.5	6019.8	5987.0	5987.0	5790.2	5593.5	5334.7	4981.3	4653.3	4627.8	4332.6
32.5°	6256.7	6212.9	6176.5	6172.8	5968.8	5772.0	5513.3	5145.2	4799.1	4766.3	4449.3
35°	6406.1	6366.0	6333.2	6340.5	6147.3	5954.2	5713.7	5363.9	4981.3	4944.8	4602.3
37.5°	6497.2	6482.6	6464.4	6489.9	6311.3	6129.1	5921.4	5575.2	5189.0	5156.2	4791.8
40°	6544.5	6533.6	6606.5	6639.3	6449.8	6285.8	6129.1	5793.9	5414.9	5378.5	5010.4
42.5°	6613.8	6704.9	6734.0	6726.7	6551.8	6406.1	6318.6	6030.7	5680.9	5648.1	5272.8
45°	6366.0	6344.1	6504.4	6591.9	6559.1	6482.6	6497.2	6315.0	5990.6	5957.8	5575.2
47.5°	6034.4	6005.2	6096.3	6311.3	6438.8	6511.7	6657.5	6610.1	6347.7	6318.6	5928.7
50°	5334.7	5374.8	5713.7	6001.6	6253.0	6504.4	6792.3	6927.1	6741.3	6712.1	6307.7
52.5°	4558.6	4598.7	4952.1	5615.3	6027.1	6449.8	6890.7	7244.2	7167.6	7134.8	6712.1
55°	3993.8	4081.2	4482.1	4963.1	5706.4	6278.5	6949.0	7568.5	7626.8	7597.6	7153.1
57.5°	3432.6	3498.2	3800.6	4227.0	5269.1	5979.7	6945.4	7870.9	8107.8	8078.6	7601.3
60°	2773.0	2856.9	3097.4	3556.5	4686.1	5622.6	6843.3	8107.8	8570.6	8548.7	8034.9
62.5°	2321.2	2346.7	2518.0	2915.2	3935.5	5170.8	6613.8	8235.3	8989.6	8975.0	8424.8
65°	1869.3	1873.0	2029.7	2361.3	3210.3	4609.6	6223.9	8187.9	9306.6	9313.9	8705.4
67.5°	1443.0	1461.2	1603.3	1854.8	2550.8	3880.8	5666.3	7867.3	9310.3	9328.5	8545.0
70°	998.4	1013.0	1228.0	1472.2	1971.4	3093.7	4912.0	7018.2	8545.0	8559.6	7659.6
72.5°	703.3	710.6	940.1	1177.0	1541.4	2332.1	3705.9	5804.8	7284.2	7295.2	6442.5
75°	524.7	532.0	663.2	892.8	1180.6	1614.3	2532.5	4445.6	5819.4	5819.4	5086.9
77.5°	371.7	375.3	430.0	615.8	787.1	1089.5	1523.2	2911.5	4270.7	4278.0	3705.9
80°	251.4	255.1	280.6	415.4	491.9	590.3	827.2	1526.8	2692.9	2703.8	2354.0
82.5°	131.2	138.5	156.7	211.3	247.8	328.0	426.3	776.2	1490.4	1519.5	1413.9
85°	51.0	51.0	58.3	69.2	91.1	127.5	196.8	295.2	674.1	696.0	623.1
87.5°	18.2	18.2	21.9	21.9	25.5	29.2	32.8	43.7	76.5	76.5	72.9
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°	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6
2.5°	3928.2	3928.2	3910.0	3917.2	3913.6	3906.3	3899.0	3910.0	3899.0	3873.5	3869.9
5°	3935.5	3928.2	3899.0	3895.4	3884.4	3869.9	3851.6	3858.9	3840.7	3818.9	3815.2
7.5°	3939.1	3924.5	3884.4	3869.9	3848.0	3818.9	3789.7	3789.7	3764.2	3742.3	3738.7
10°	3931.8	3913.6	3858.9	3829.8	3789.7	3746.0	3705.9	3695.0	3665.8	3640.3	3640.3
12.5°	3935.5	3910.0	3840.7	3793.3	3738.7	3684.0	3633.0	3618.4	3592.9	3567.4	3563.8
15°	3957.3	3920.9	3833.4	3771.5	3691.3	3629.4	3574.7	3563.8	3541.9	3523.7	3523.7
17.5°	3979.2	3931.8	3822.5	3735.0	3636.7	3567.4	3516.4	3516.4	3501.8	3490.9	3490.9
20°	3990.1	3935.5	3800.6	3684.0	3571.1	3498.2	3450.8	3458.1	3454.5	3450.8	3450.8
22.5°	4015.6	3942.7	3782.4	3636.7	3501.8	3425.3	3381.6	3392.5	3388.9	3388.9	3392.5
25°	4055.7	3961.0	3767.8	3592.9	3436.2	3352.4	3305.1	3312.3	3312.3	3312.3	3312.3
27.5°	4110.4	3997.4	3764.2	3552.8	3370.6	3275.9	3217.6	3217.6	3203.0	3206.7	3210.3
30°	4194.2	4066.6	3771.5	3516.4	3301.4	3181.2	3111.9	3101.0	3097.4	3104.6	3108.3
32.5°	4296.2	4161.4	3815.2	3490.9	3228.5	3075.5	2988.0	2984.4	2973.5	2973.5	2973.5
35°	4423.7	4252.5	3855.3	3487.3	3155.7	2962.5	2867.8	2856.9	2831.3	2820.4	2820.4
37.5°	4587.7	4394.6	3902.7	3461.7	3093.7	2853.2	2740.2	2703.8	2674.7	2671.0	2671.0
40°	4788.1	4554.9	3971.9	3432.6	3028.1	2740.2	2590.8	2528.9	2532.5	2547.1	2547.1
42.5°	5025.0	4751.7	4059.4	3418.0	2933.4	2623.6	2415.9	2343.1	2368.6	2383.1	2386.8
45°	5301.9	4984.9	4157.7	3399.8	2845.9	2492.5	2230.1	2139.0	2149.9	2153.6	2157.2
47.5°	5622.6	5243.6	4259.8	3385.2	2747.5	2328.5	2026.0	1905.8	1902.1	1880.3	1887.6
50°	5957.8	5516.9	4365.4	3359.7	2627.3	2135.4	1811.0	1668.9	1639.8	1607.0	1610.6
52.5°	6315.0	5797.5	4463.8	3319.6	2477.9	1938.6	1607.0	1453.9	1395.6	1359.2	1366.5
55°	6708.5	6085.4	4558.6	3257.7	2321.2	1741.8	1424.8	1268.1	1195.2	1166.1	1169.7
57.5°	7069.3	6362.3	4627.8	3181.2	2149.9	1563.3	1264.4	1111.4	1064.0	1060.4	1064.0
60°	7419.1	6595.5	4657.0	3075.5	1975.0	1399.3	1115.0	998.4	965.6	983.9	987.5
62.5°	7714.2	6744.9	4642.4	2933.4	1796.5	1242.6	994.8	911.0	889.1	925.6	929.2
65°	7885.5	6792.3	4540.4	2729.3	1603.3	1089.5	881.8	790.7	779.8	801.7	812.6
67.5°	7659.6	6497.2	4263.4	2448.7	1388.3	947.4	772.5	699.6	681.4	699.6	699.6
70°	6788.7	5629.9	3607.5	2004.2	1151.5	809.0	670.5	619.5	604.9	619.5	615.8
72.5°	5655.4	4682.5	2842.3	1563.3	907.3	681.4	583.0	535.7	521.1	506.5	499.2
75°	4387.3	3556.5	2062.5	1147.8	685.1	546.6	488.3	444.6	408.1	422.7	415.4
77.5°	3214.0	2496.1	1461.2	794.4	491.9	422.7	382.6	349.8	324.3	353.5	349.8
80°	2069.8	1614.3	976.6	532.0	338.9	295.2	280.6	262.4	287.9	375.3	382.6
82.5°	1264.4	1023.9	583.0	346.2	222.3	196.8	182.2	182.2	295.2	324.3	328.0
85°	564.8	542.9	317.0	178.6	123.9	113.0	102.0	131.2	120.3	87.5	91.1
87.5°	91.1	94.7	69.2	61.9	47.4	47.4	36.4	25.5	18.2	10.9	10.9
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)