

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: P835885

Luminaire Tested: **ARCH3-110-727-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11290 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 111.9
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

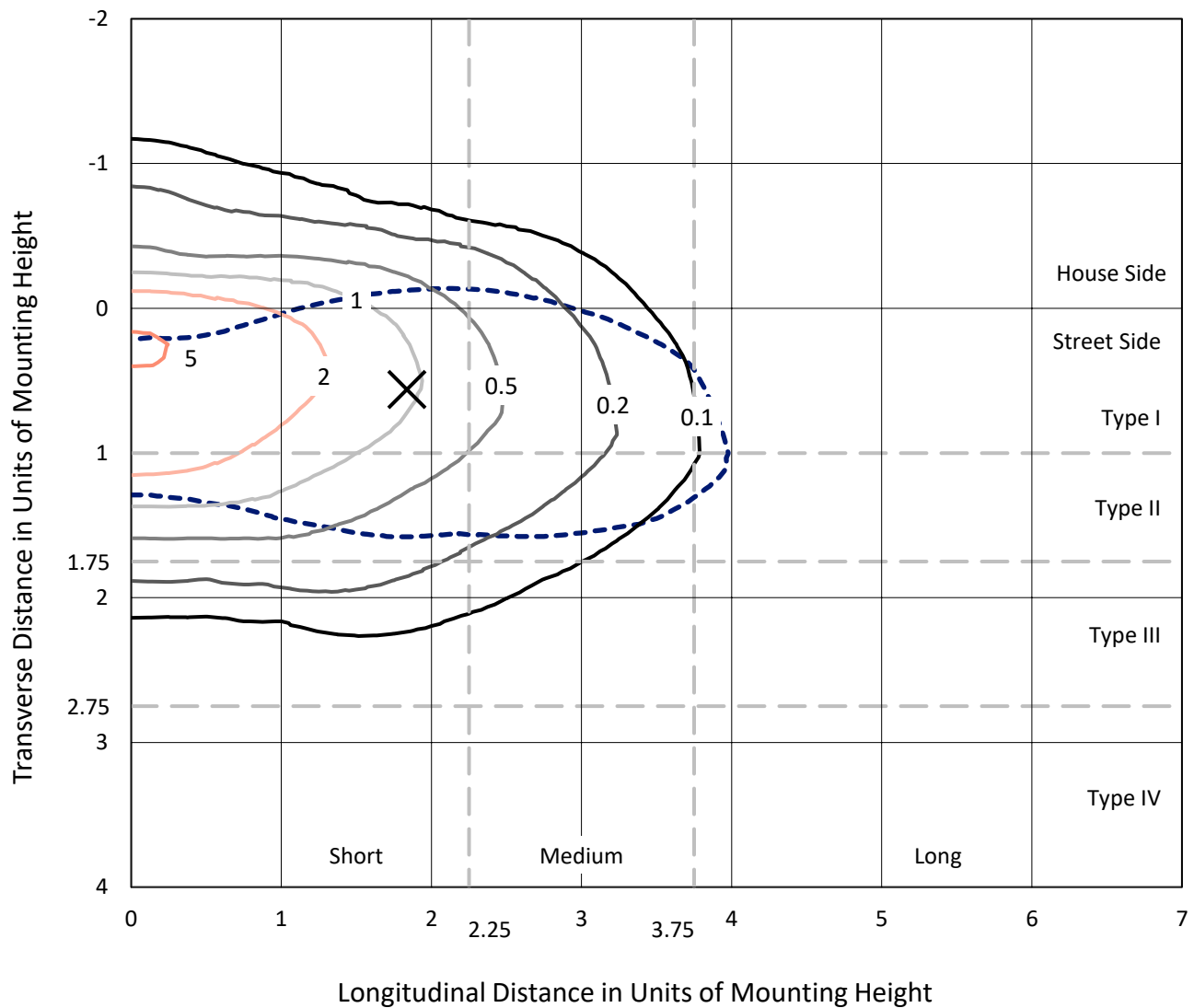


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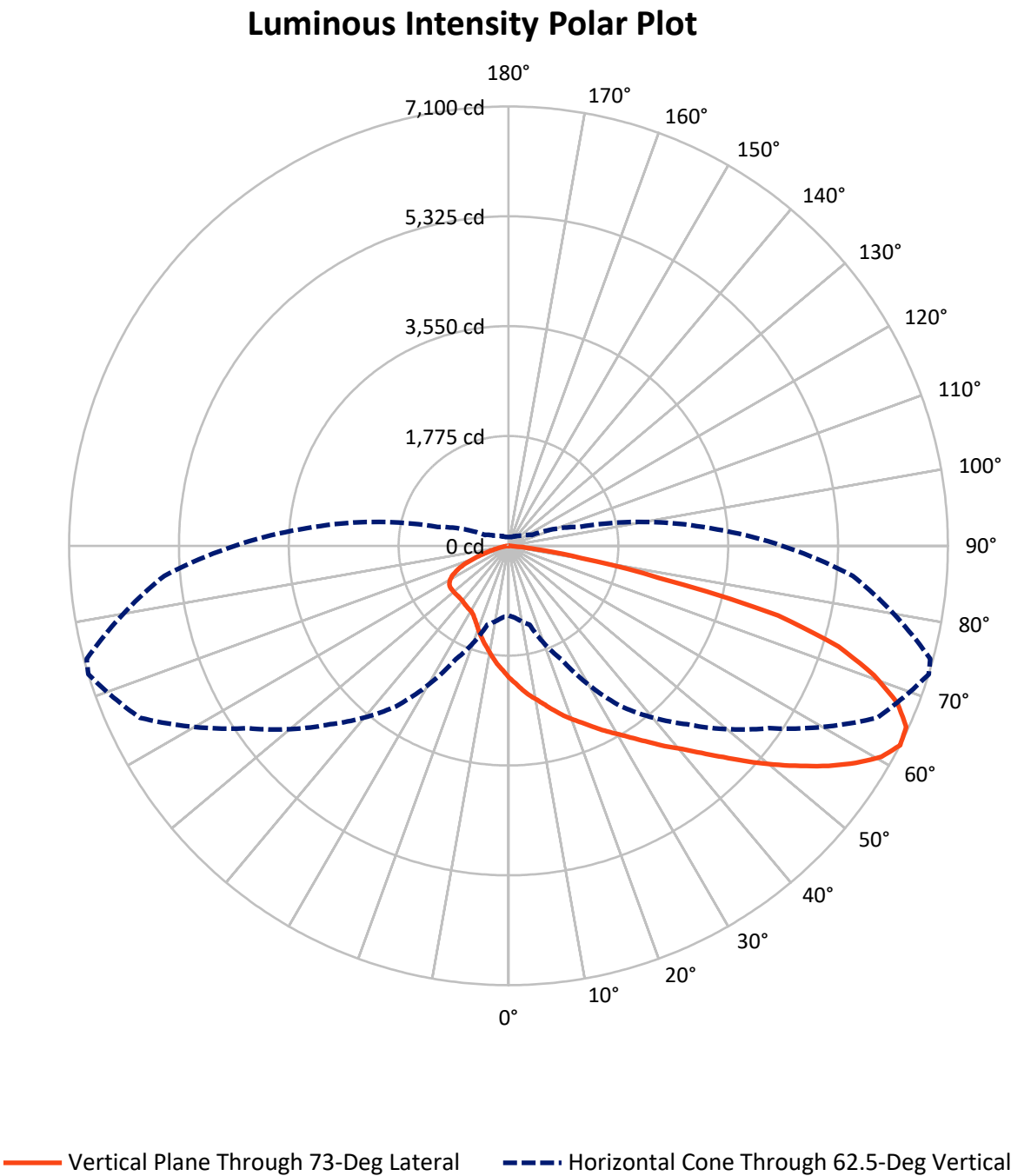
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type II - Short - N/A

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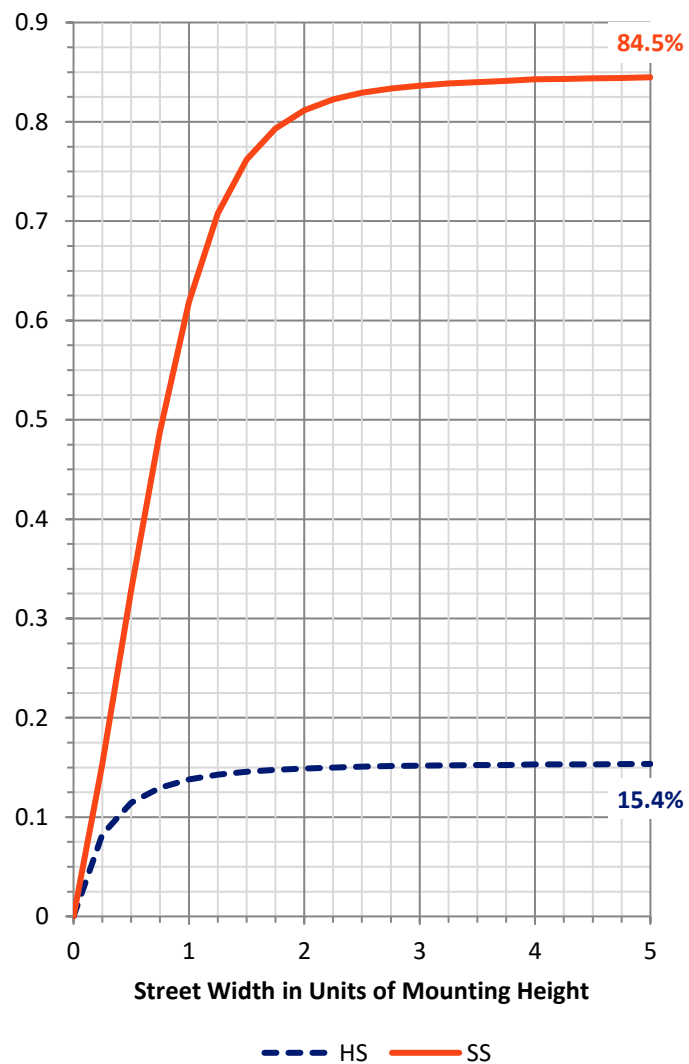
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1750.1	0.0	1750.1
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	9539.9	0.0	9539.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	11290.0	0.0	11290.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.5	1.8
10°-20°	623.2	5.5
20°-30°	1037.3	9.2
30°-40°	1565.2	13.9
40°-50°	2187.7	19.4
50°-60°	2416.4	21.4
60°-70°	2105.0	18.6
70°-80°	1063.3	9.4
80°-90°	85.3	0.8
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°	11290.0	100.0
0°-180°	11290.0	100.0

Coefficient of Utilization



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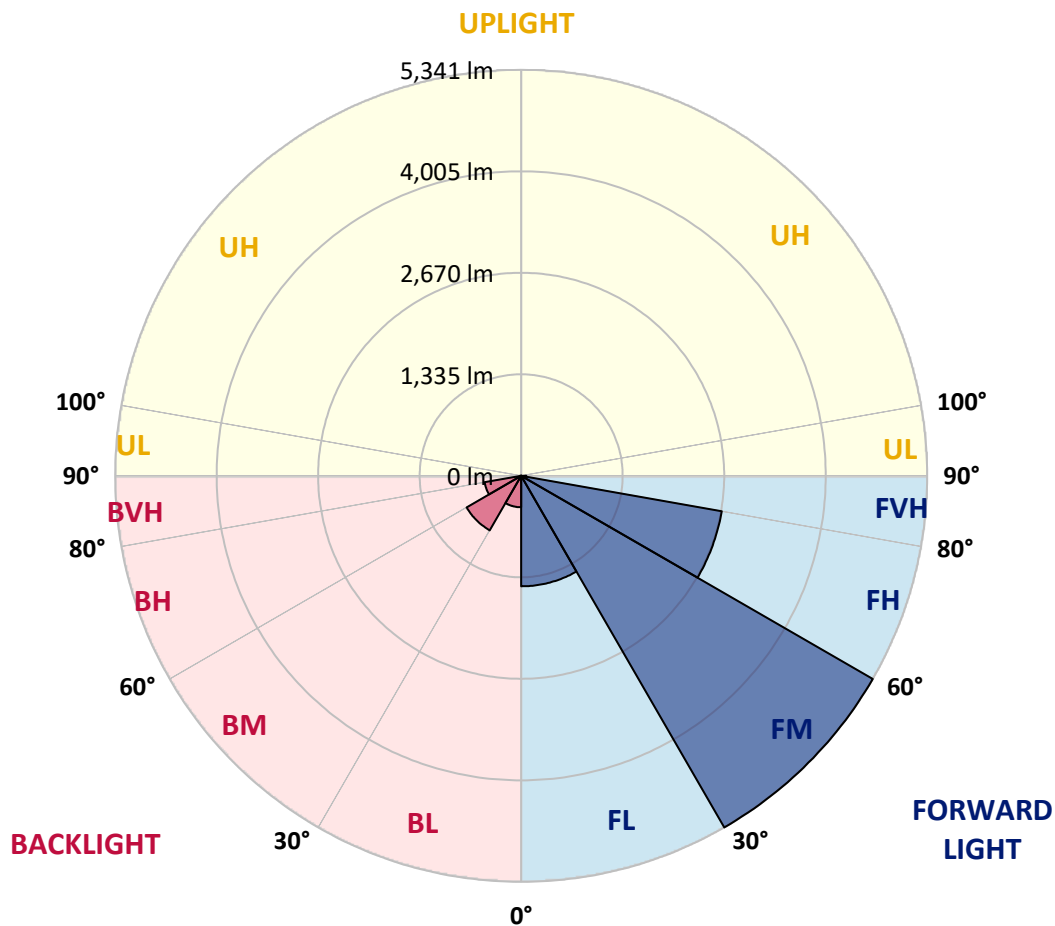
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1453.4	12.9			
FM	(30°-60°)	5340.6	47.3			
FH	(60°-80°)	2679.9	23.7			G2/5000
FVH	(80°-90°)	66.0	0.6			G1/100
BL	(0°-30°)	413.7	3.7	B1/500		
BM	(30°-60°)	828.7	7.3	B1/1000		
BH	(60°-80°)	488.5	4.3	B1/500		G1/500
BVH	(80°-90°)	19.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2137.8	2137.8	2137.8	2137.8	2137.8	2137.8	2137.8	2137.8	2137.8	2137.8	2137.8
2.5°	2433.0	2460.1	2445.3	2455.1	2405.9	2374.0	2337.0	2265.7	2226.3	2221.4	2174.7
5°	2789.7	2819.2	2794.6	2787.2	2701.1	2627.3	2543.7	2418.2	2334.6	2319.8	2216.5
7.5°	3146.4	3173.5	3143.9	3121.8	3006.2	2875.8	2752.8	2568.3	2437.9	2413.3	2250.9
10°	3397.3	3421.9	3399.8	3377.7	3257.1	3124.3	2949.6	2708.5	2531.4	2492.0	2273.1
12.5°	3586.8	3601.5	3591.7	3572.0	3458.8	3316.2	3148.9	2866.0	2637.2	2588.0	2307.5
15°	3741.7	3766.3	3754.0	3739.3	3631.0	3488.4	3328.5	3030.8	2760.2	2698.7	2359.2
17.5°	3845.1	3862.3	3864.7	3864.7	3768.8	3628.6	3473.6	3180.8	2883.2	2804.5	2408.4
20°	3891.8	3911.5	3923.8	3943.5	3864.7	3744.2	3586.8	3308.8	2998.8	2910.2	2455.1
22.5°	3913.9	3931.2	3963.1	4007.4	3943.5	3842.6	3697.5	3426.9	3114.4	3020.9	2509.3
25°	3931.2	3953.3	4000.0	4083.7	4039.4	3953.3	3827.8	3562.2	3252.2	3156.2	2588.0
27.5°	3977.9	4005.0	4049.2	4150.1	4096.0	4054.2	3965.6	3707.3	3397.3	3298.9	2683.9
30°	4140.3	4162.4	4159.9	4223.9	4157.5	4145.2	4083.7	3847.5	3537.6	3439.2	2797.1
32.5°	4435.5	4457.6	4403.5	4378.9	4233.7	4236.2	4211.6	3997.6	3704.8	3604.0	2927.5
35°	4752.8	4777.4	4706.1	4664.3	4420.7	4349.4	4361.7	4184.5	3891.8	3790.9	3089.8
37.5°	5035.7	5065.2	5003.7	4942.2	4696.2	4531.4	4529.0	4393.7	4105.8	4002.5	3269.4
40°	5190.7	5225.2	5262.1	5227.6	4969.3	4787.3	4708.5	4607.7	4317.4	4211.6	3463.8
42.5°	5264.5	5360.5	5426.9	5404.7	5193.2	5008.7	4915.2	4831.5	4575.7	4472.4	3695.0
45°	5057.9	5060.3	5200.6	5321.1	5281.7	5158.7	5141.5	5082.5	4870.9	4772.5	3955.8
47.5°	4799.6	4779.9	4878.3	5092.3	5203.0	5235.0	5335.9	5360.5	5207.9	5109.5	4221.4
50°	4179.6	4191.9	4511.7	4819.2	5035.7	5242.4	5473.6	5645.8	5554.8	5461.3	4501.9
52.5°	3399.8	3429.3	3795.9	4472.4	4814.3	5168.6	5554.8	5931.2	5909.0	5820.5	4782.3
55°	2725.7	2772.5	3161.2	3894.3	4531.4	5003.7	5589.2	6192.0	6275.6	6194.4	5057.9
57.5°	2083.7	2132.9	2460.1	3212.8	4169.8	4735.6	5564.6	6420.7	6617.5	6565.9	5311.3
60°	1569.5	1618.7	1827.8	2605.2	3717.1	4435.5	5441.6	6570.8	6925.0	6870.9	5495.8
62.5°	1124.2	1163.6	1318.6	2027.1	3166.1	4078.8	5139.0	6573.3	7099.7	7055.4	5584.3
65°	809.4	809.4	934.8	1446.5	2649.5	3650.7	4681.5	6270.7	7062.8	7050.5	5522.8
67.5°	583.0	588.0	688.8	1011.1	2113.2	3131.6	4088.6	5731.9	6777.4	6838.9	5301.4
70°	413.3	425.6	472.3	706.0	1596.6	2472.4	3453.9	5025.9	6263.3	6371.5	4873.4
72.5°	319.8	327.2	359.2	492.0	1166.1	1837.7	2752.8	4238.7	5576.9	5699.9	4290.3
75°	246.0	253.4	278.0	361.6	836.4	1289.1	1955.7	3289.1	4497.0	4715.9	3446.5
77.5°	179.6	189.4	206.6	263.2	487.1	819.2	1185.7	1850.0	2482.2	2585.5	1805.7
80°	83.6	95.9	120.5	169.7	263.2	386.2	420.7	713.4	1193.1	1247.2	979.1
82.5°	46.7	59.0	68.9	103.3	132.8	137.8	142.7	179.6	450.2	496.9	410.8
85°	22.1	29.5	32.0	44.3	44.3	39.4	46.7	34.4	73.8	88.6	86.1
87.5°	0.0	2.5	4.9	12.3	9.8	7.4	7.4	7.4	7.4	9.8	7.4
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°	2137.8	2137.8	2137.8	2137.8	2137.8	2137.8	2137.8	2137.8	2137.8	2137.8	2137.8
2.5°	2152.5	2120.6	2046.8	1982.8	1941.0	1904.1	1854.9	1832.7	1793.4	1800.8	1778.6
5°	2164.8	2105.8	1975.4	1854.9	1766.3	1687.6	1601.5	1552.3	1498.2	1493.3	1476.0
7.5°	2172.2	2081.2	1894.2	1724.5	1589.2	1468.7	1353.0	1289.1	1222.6	1207.9	1193.1
10°	2164.8	2044.3	1810.6	1589.2	1409.6	1259.5	1129.2	1048.0	979.1	961.9	947.1
12.5°	2172.2	2024.6	1731.9	1463.7	1249.7	1080.0	932.4	848.7	784.8	767.5	757.7
15°	2189.4	2012.3	1665.5	1350.6	1107.0	917.6	772.5	701.1	649.5	632.2	627.3
17.5°	2204.2	2000.0	1594.1	1239.9	964.3	774.9	649.5	590.4	546.1	528.9	524.0
20°	2223.9	1982.8	1522.8	1134.1	838.9	661.8	551.1	499.4	464.9	452.6	450.2
22.5°	2241.1	1970.5	1456.4	1028.3	723.3	570.7	477.3	435.4	410.8	398.5	398.5
25°	2285.4	1975.4	1399.8	929.9	637.2	499.4	420.7	388.7	369.0	361.6	361.6
27.5°	2337.0	1995.1	1355.5	846.3	563.4	445.3	381.3	354.2	344.4	334.6	337.0
30°	2410.9	2034.5	1326.0	777.4	509.2	403.4	349.3	329.6	319.8	317.3	317.3
32.5°	2504.3	2098.4	1323.5	733.1	469.9	371.5	327.2	310.0	305.0	302.6	302.6
35°	2615.0	2155.0	1308.7	713.4	445.3	349.3	310.0	297.7	295.2	295.2	295.2
37.5°	2747.9	2248.5	1298.9	686.4	433.0	337.0	297.7	287.8	287.8	287.8	287.8
40°	2885.6	2324.7	1284.1	661.8	428.0	329.6	290.3	278.0	278.0	278.0	278.0
42.5°	3050.5	2435.5	1279.2	649.5	420.7	324.7	280.4	265.7	268.1	268.1	270.6
45°	3249.7	2560.9	1276.8	637.2	418.2	319.8	270.6	253.4	255.8	253.4	253.4
47.5°	3451.5	2706.1	1284.1	629.8	415.7	314.9	263.2	241.1	241.1	238.6	238.6
50°	3663.0	2838.9	1289.1	622.4	410.8	305.0	250.9	231.2	226.3	221.4	223.9
52.5°	3862.3	2961.9	1291.5	610.1	396.1	290.3	241.1	218.9	211.6	204.2	206.6
55°	4061.5	3080.0	1296.4	595.3	376.4	275.5	228.8	206.6	196.8	187.0	187.0
57.5°	4241.1	3183.3	1284.1	558.4	354.2	260.8	216.5	191.9	177.1	167.3	167.3
60°	4364.1	3257.1	1247.2	504.3	324.7	243.5	204.2	177.1	159.9	152.5	152.5
62.5°	4423.2	3269.4	1180.8	415.7	287.8	226.3	189.4	162.4	147.6	142.7	142.7
65°	4366.6	3215.3	1077.5	312.4	248.5	206.6	174.7	150.1	135.3	123.0	123.0
67.5°	4169.8	3062.8	934.8	236.2	211.6	187.0	159.9	137.8	120.5	110.7	110.7
70°	3773.7	2745.4	723.3	189.4	179.6	162.4	145.1	123.0	108.2	95.9	95.9
72.5°	3254.6	2327.2	509.2	152.5	152.5	137.8	123.0	108.2	93.5	83.6	83.6
75°	2497.0	1722.0	341.9	123.0	125.5	115.6	100.9	88.6	78.7	71.3	71.3
77.5°	1362.9	851.2	209.1	91.0	93.5	88.6	78.7	71.3	66.4	59.0	59.0
80°	661.8	373.9	120.5	64.0	66.4	64.0	59.0	51.7	51.7	46.7	46.7
82.5°	278.0	140.2	64.0	44.3	44.3	39.4	36.9	36.9	36.9	34.4	34.4
85°	68.9	27.1	27.1	24.6	24.6	24.6	22.1	22.1	22.1	17.2	19.7
87.5°	9.8	9.8	9.8	9.8	9.8	9.8	7.4	2.5	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)