

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: P285746

Luminaire Tested: **USSL-XL-C049-D-U-T2-BZ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-5)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C049-D-U-T2-BZ-7030
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30664 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 217
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: 28.75 FT

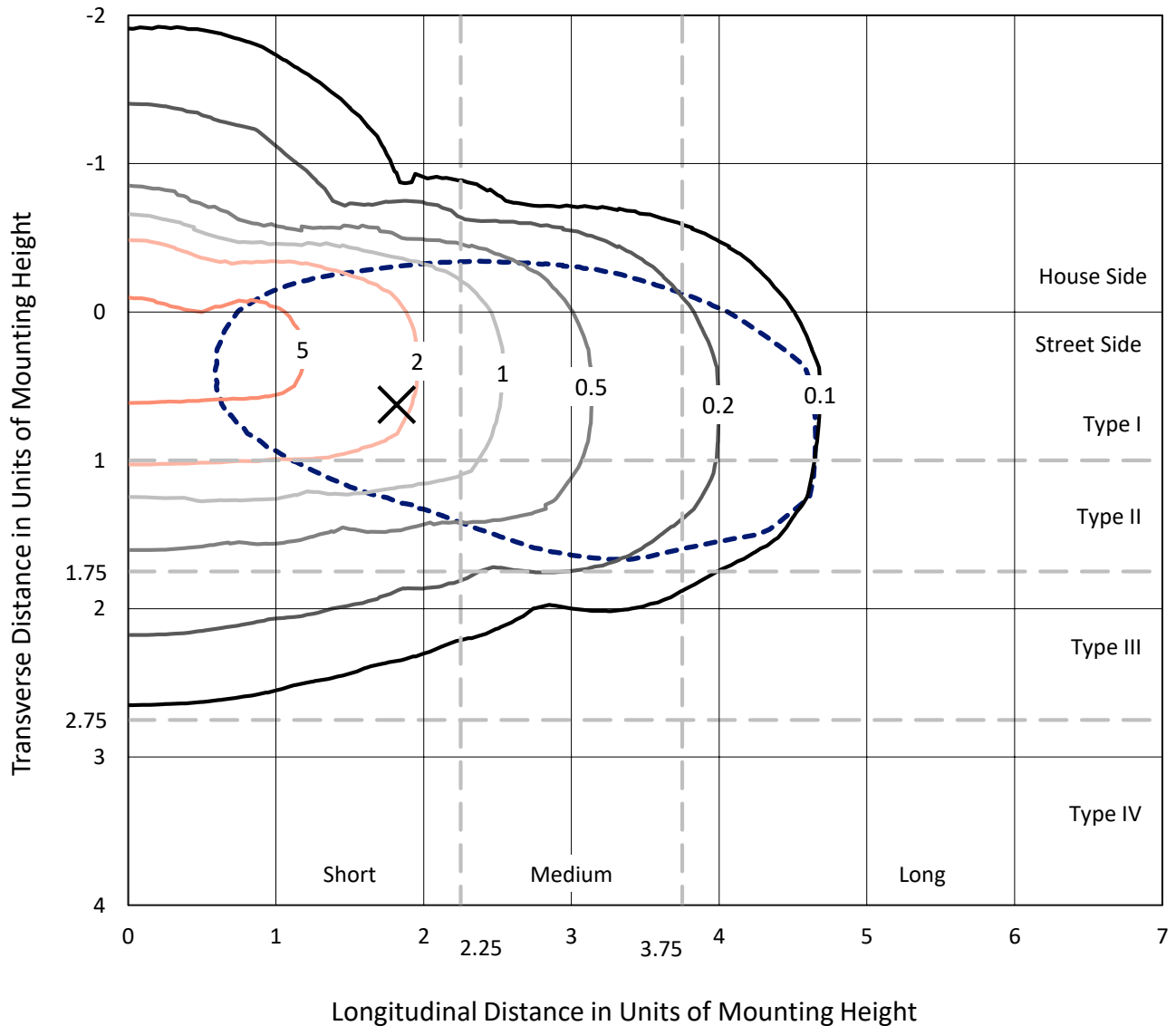


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

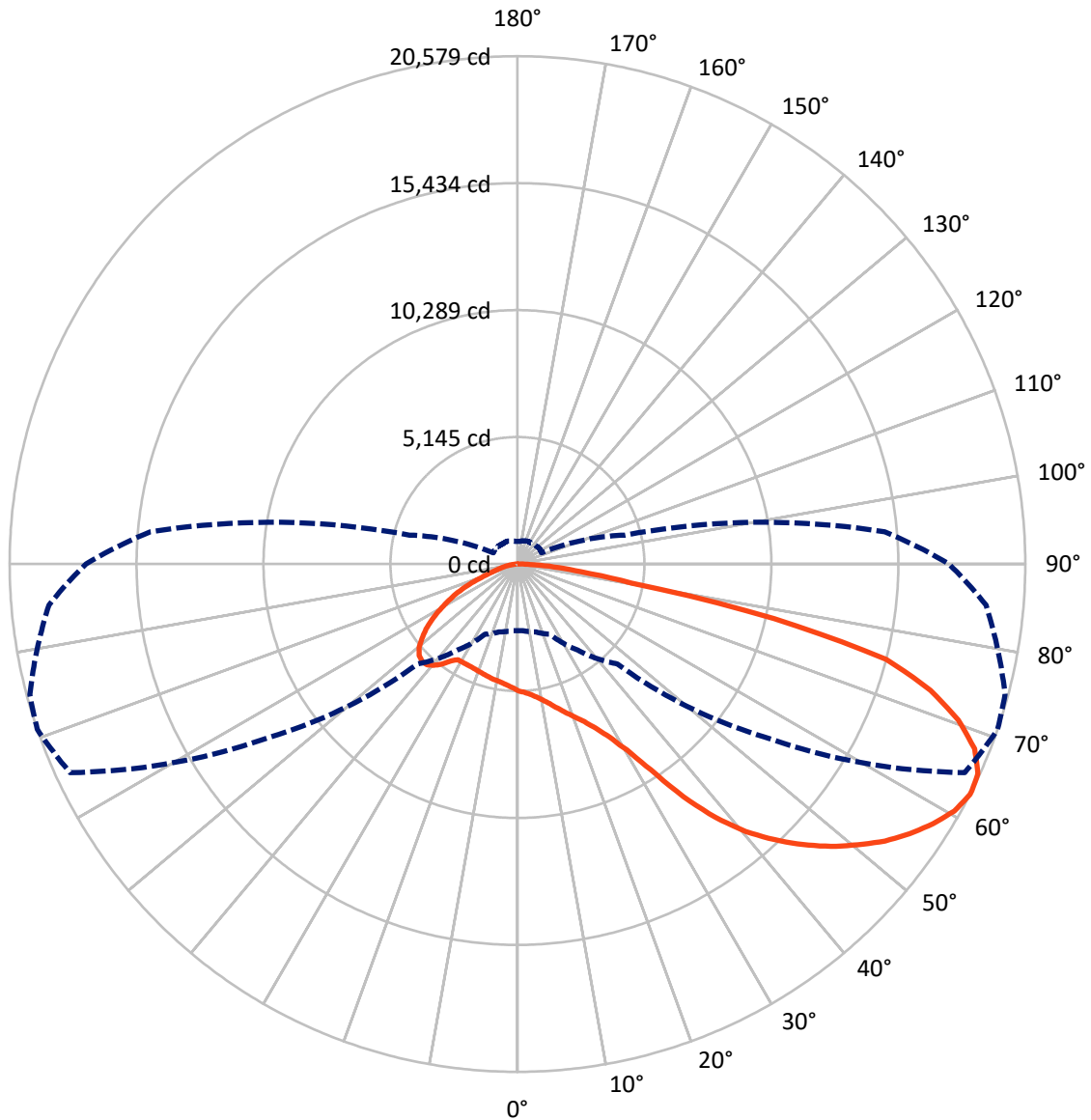


Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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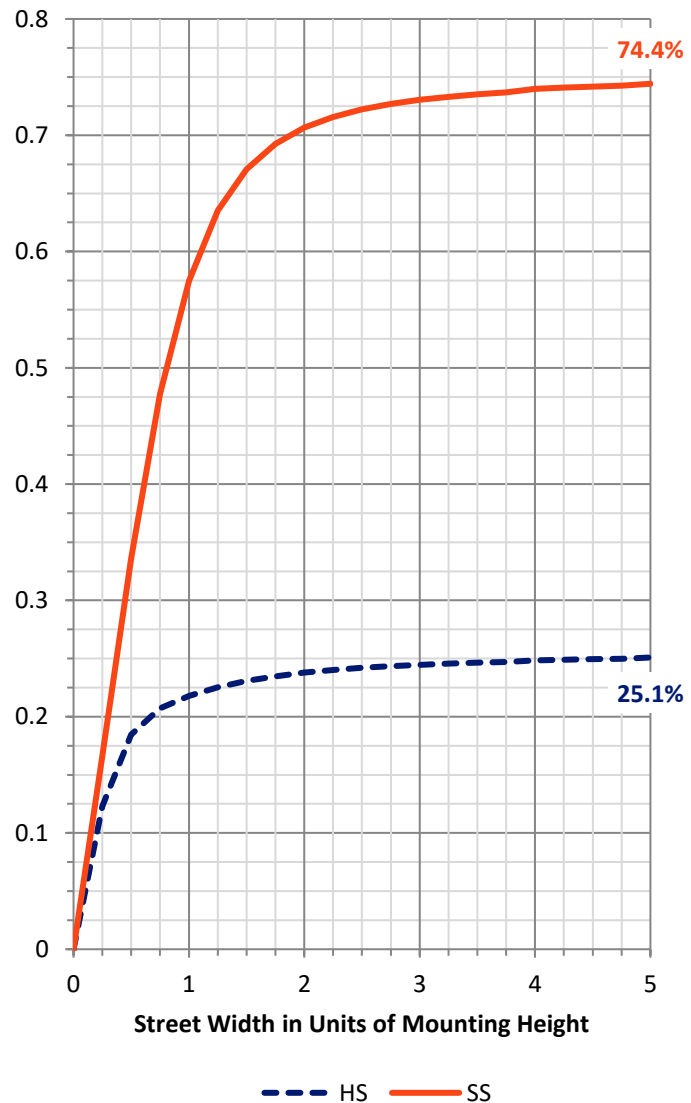
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7830.7	0.0	7830.7
	% Fixture	25.5	0.0	25.5
Street Side	Lumens	22833.3	0.0	22833.3
	% Fixture	74.5	0.0	74.5
Total	Lumens	30664.0	0.0	30664.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.3	1.6
10°-20°	1515.9	4.9
20°-30°	2569.7	8.4
30°-40°	3873.1	12.6
40°-50°	5320.7	17.4
50°-60°	6186.0	20.2
60°-70°	6103.8	19.9
70°-80°	3902.9	12.7
80°-90°	696.7	2.3
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°	30664.0	100.0
0°-180°	30664.0	100.0



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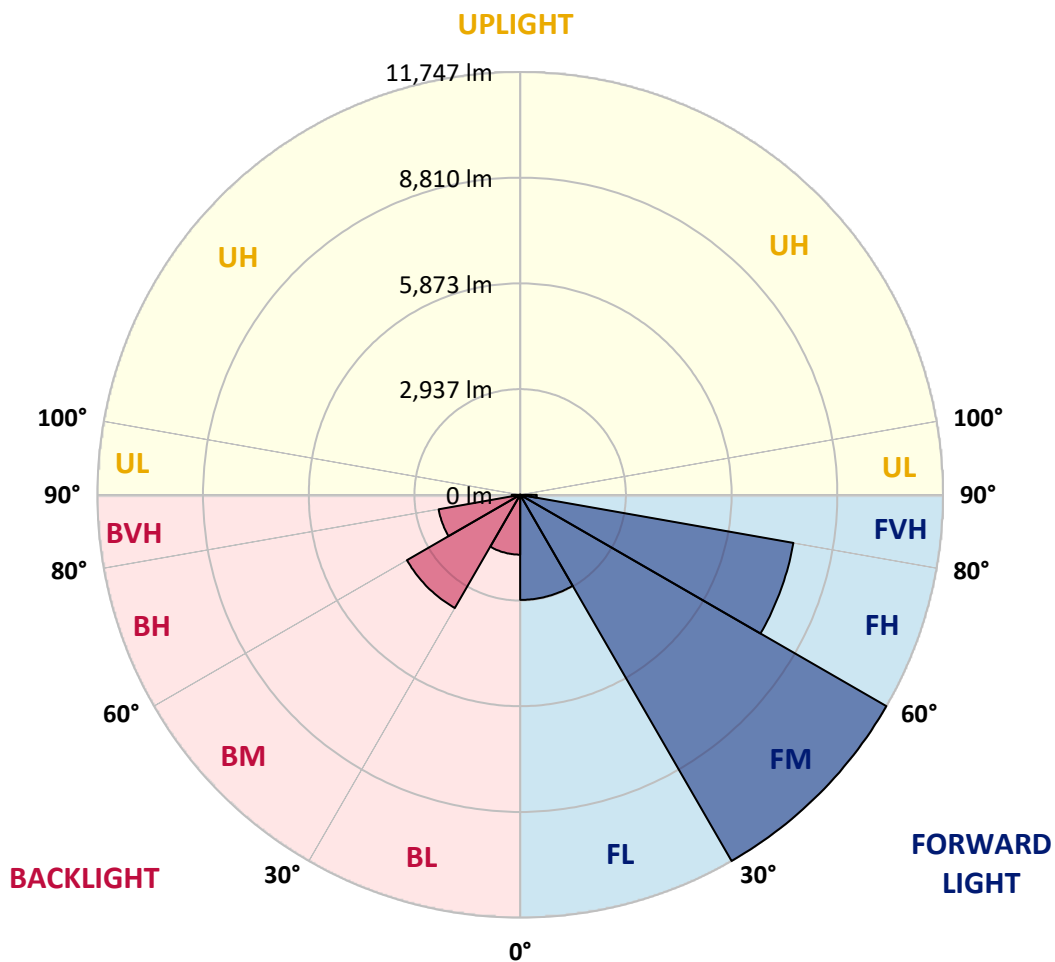
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2918.5	9.5			
FM (30°-60°)	11746.8	38.3			
FH (60°-80°)	7707.6	25.1			G4/12000
FVH (80°-90°)	460.4	1.5			G3/500
BL (0°-30°)	1662.4	5.4	B3/2500		
BM (30°-60°)	3633.0	11.8	B3/5000		
BH (60°-80°)	2299.1	7.5	B3/2500		G3/2500
BVH (80°-90°)	236.3	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5140.8	5140.8	5140.8	5140.8	5140.8	5140.8	5140.8	5140.8	5140.8	5140.8	5140.8
2.5°	5480.6	5470.1	5457.3	5435.1	5409.4	5379.0	5347.5	5276.3	5202.7	5179.4	5129.2
5°	5781.8	5762.0	5745.6	5724.6	5675.6	5613.7	5530.8	5414.1	5299.6	5263.4	5159.5
7.5°	6048.1	6025.9	5996.7	5968.7	5914.9	5835.6	5723.5	5575.2	5437.4	5374.4	5205.1
10°	6285.1	6264.1	6248.9	6217.3	6174.1	6078.4	5945.3	5759.7	5599.7	5512.1	5277.4
12.5°	6547.8	6530.3	6498.7	6462.5	6405.3	6313.1	6180.0	5978.0	5807.5	5701.3	5388.4
15°	6815.1	6803.5	6747.4	6726.4	6662.2	6555.9	6438.0	6230.2	6056.2	5924.3	5547.2
17.5°	7052.2	7044.0	7009.0	6984.4	6931.9	6812.8	6691.4	6501.1	6323.6	6155.5	5723.5
20°	7204.0	7215.6	7208.6	7204.0	7200.4	7102.4	6982.1	6786.0	6607.3	6440.4	5912.6
22.5°	7345.2	7349.9	7368.6	7411.8	7473.7	7430.5	7300.9	7119.9	6937.7	6738.1	6157.8
25°	7389.6	7393.1	7465.5	7596.3	7770.2	7788.9	7682.7	7561.2	7362.7	7166.6	6494.1
27.5°	7425.8	7435.1	7526.2	7755.0	8061.0	8149.7	8111.2	8071.5	7931.4	7725.9	6945.9
30°	7415.3	7417.6	7568.2	7862.5	8292.1	8531.5	8589.9	8781.3	8746.3	8606.2	7702.5
32.5°	7222.6	7205.1	7423.5	7864.8	8473.1	8914.5	9184.2	9729.4	9936.1	9973.4	9215.7
35°	6830.3	6830.3	7157.2	7773.7	8603.9	9292.7	9861.4	10883.0	11580.0	11598.7	10654.1
37.5°	6503.4	6524.4	6891.0	7603.3	8664.6	9676.9	10637.8	12293.4	13029.0	12965.9	11855.6
40°	6177.7	6203.3	6579.3	7370.9	8628.4	10008.5	11390.9	13638.5	14250.3	14105.5	12879.5
42.5°	5816.9	5836.7	6189.3	7040.5	8503.5	10250.2	12200.0	14786.2	15273.1	15096.8	13813.6
45°	5456.1	5489.9	5807.5	6596.8	8259.4	10394.9	12893.6	15827.7	16222.3	16019.2	14663.6
47.5°	4924.8	5055.6	5425.7	6159.0	7816.9	10384.4	13508.9	16762.9	17098.0	16882.0	15429.5
50°	3844.8	3921.9	4738.0	5762.0	7233.1	10175.4	13994.6	17597.7	17884.9	17693.5	16203.6
52.5°	3492.2	3513.2	3777.1	5275.1	6586.3	9762.1	14354.2	18369.5	18649.7	18430.2	16904.2
55°	3311.2	3322.9	3452.5	4313.0	6037.5	9000.9	14517.7	19082.9	19294.2	19046.7	17497.3
57.5°	3064.9	3101.1	3282.1	3676.7	5475.9	7924.3	14306.3	19643.3	19854.7	19586.1	18064.8
60°	2882.7	2904.9	3060.2	3366.1	4825.6	6665.7	13575.4	20048.5	20333.4	20085.8	18591.3
62.5°	2702.9	2715.8	2846.6	3140.8	4266.3	5729.3	12210.5	20001.8	20578.5	20454.8	19058.4
63°	2665.6	2677.3	2808.0	3099.9	4183.4	5537.8	11923.3	19943.4	20578.5	20492.1	19116.7
65°	2499.8	2513.8	2643.4	2909.6	3836.7	5056.8	10641.3	19580.3	20505.0	20545.9	19199.6
67.5°	2253.4	2276.8	2384.2	2616.5	3315.9	4470.7	8739.3	19200.8	19977.2	20064.8	18740.8
70°	1962.7	1967.4	2097.0	2292.0	2795.2	3802.8	6736.9	18049.6	18946.3	18984.8	17667.8
72.5°	1653.3	1666.1	1782.9	1947.5	2318.8	3149.0	4816.3	15914.1	17505.5	17722.7	15870.9
75°	1443.1	1453.6	1551.7	1667.3	1925.3	2482.3	3221.3	11604.6	15433.0	15674.7	13728.4
77.5°	1208.4	1215.4	1318.2	1397.6	1564.6	1872.8	2224.2	6122.8	10629.6	11916.3	10725.4
80°	860.5	861.7	964.4	1026.3	1133.7	1151.2	1413.9	3258.7	4677.3	6044.5	7088.4
82.5°	186.8	268.5	404.0	507.9	568.6	478.7	695.9	1785.2	2583.8	3084.7	3842.5
85°	80.6	110.9	213.7	234.7	156.5	172.8	282.6	951.6	1477.0	1758.4	1977.9
87.5°	15.2	19.8	54.9	73.6	45.5	47.9	57.2	304.7	517.2	607.1	677.2
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°	5140.8	5140.8	5140.8	5140.8	5140.8	5140.8	5140.8	5140.8	5140.8	5140.8	5140.8
2.5°	5098.8	5084.8	5038.1	5006.6	4986.7	4961.0	4928.3	4885.1	4872.3	4841.9	4866.5
5°	5102.3	5065.0	4966.9	4895.7	4831.4	4775.4	4710.0	4648.1	4624.8	4583.9	4600.3
7.5°	5118.7	5055.6	4903.8	4795.2	4699.5	4623.6	4532.5	4456.6	4429.8	4383.1	4391.3
10°	5161.9	5063.8	4854.8	4722.9	4590.9	4480.0	4373.7	4269.8	4223.1	4182.3	4202.1
12.5°	5237.8	5094.1	4832.6	4663.3	4488.2	4352.7	4197.4	4064.3	3999.0	3946.4	3963.9
15°	5352.2	5152.5	4806.9	4578.1	4366.7	4190.4	4000.1	3832.0	3758.4	3717.6	3737.4
17.5°	5468.9	5237.8	4791.7	4474.2	4220.8	3991.9	3808.6	3649.8	3515.6	3485.2	3496.9
20°	5606.7	5325.3	4803.4	4364.4	4049.2	3778.3	3561.1	3454.9	3280.9	3220.2	3223.7
22.5°	5788.8	5461.9	4813.9	4257.0	3844.8	3542.4	3289.1	3184.0	3017.0	2909.6	2914.3
25°	6050.4	5631.2	4838.4	4157.7	3644.0	3283.2	2990.2	2815.0	2711.1	2574.5	2575.7
27.5°	6408.8	5863.6	4887.5	4064.3	3430.3	2985.5	2627.0	2430.9	2339.8	2249.9	2238.2
30°	7020.6	6247.7	4959.9	3961.6	3177.0	2625.9	2244.1	2072.4	1995.4	1921.8	1913.7
32.5°	8312.0	7180.6	5060.3	3832.0	2903.8	2217.2	1905.5	1770.0	1661.5	1589.1	1599.6
35°	9637.2	8349.3	5485.3	3677.9	2595.5	1860.0	1651.0	1482.8	1343.9	1287.8	1291.3
37.5°	10772.1	9408.3	6123.9	3510.9	2254.6	1629.9	1395.3	1233.0	1122.0	1094.0	1129.0
40°	11716.6	10278.2	6636.5	3334.6	1896.1	1436.1	1137.2	1048.5	977.3	969.1	1000.6
42.5°	12609.8	11064.0	7067.3	3131.4	1562.2	1186.3	944.6	965.6	955.1	953.9	958.6
45°	13421.3	11792.5	7307.9	2829.0	1326.4	971.4	892.0	971.4	988.9	986.6	973.8
47.5°	14160.4	12458.0	7471.3	2391.2	1123.2	910.7	921.2	974.9	1007.6	1013.5	999.4
50°	14927.5	13108.4	7497.0	1861.1	1042.6	958.6	946.9	939.9	999.4	998.3	999.4
52.5°	15612.8	13666.5	7216.8	1446.6	1084.7	1008.8	967.9	927.1	960.9	962.1	938.7
55°	16128.9	14124.2	6736.9	1268.0	1119.7	1050.8	1028.6	946.9	925.9	911.9	920.1
57.5°	16661.3	14532.8	6085.4	1187.4	1130.2	1060.2	1082.3	951.6	920.1	855.8	851.2
60°	17173.9	14863.3	5313.6	1133.7	1117.4	1055.5	1048.5	987.8	927.1	831.3	798.6
62.5°	17485.6	14935.6	4524.4	1081.2	1092.9	1048.5	1011.1	1014.6	972.6	920.1	913.0
63°	17521.8	14911.1	4373.7	1068.3	1087.0	1047.3	1011.1	1017.0	972.6	941.1	942.2
65°	17476.3	14626.2	3783.0	1013.5	1066.0	1028.6	995.9	966.8	894.4	914.2	937.6
67.5°	16964.9	13694.5	2908.4	924.7	1019.3	998.3	950.4	878.0	812.6	799.8	813.8
70°	15583.7	12168.5	2060.8	788.1	935.2	959.7	938.7	830.1	764.8	753.1	781.1
72.5°	13666.5	10565.4	1415.1	630.5	783.4	893.2	887.4	799.8	741.4	707.6	721.6
75°	11504.1	8522.1	988.9	531.2	603.6	804.5	841.8	774.1	729.7	698.2	693.5
77.5°	8857.2	6436.9	777.6	454.2	498.6	651.5	774.1	768.3	823.1	971.4	938.7
80°	6034.0	4280.3	560.4	340.9	397.0	456.5	666.7	792.8	1041.5	611.8	600.1
82.5°	3507.4	2515.0	350.3	226.5	237.0	310.6	418.0	837.2	697.0	275.5	347.9
85°	1694.2	1095.2	175.1	156.5	108.6	116.8	193.8	779.9	493.9	122.6	24.5
87.5°	540.6	266.2	18.7	14.0	16.3	23.4	92.2	476.4	290.7	105.1	15.2
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)