

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: P285758

Luminaire Tested: **USSL-XL-C069-D-U-T2-AP-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285758
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-C069-D-U-T2-AP-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K LEDS AND TYPE II OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44621.8 lumens
Efficiency: N/A
Efficacy: 156.6 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 285
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

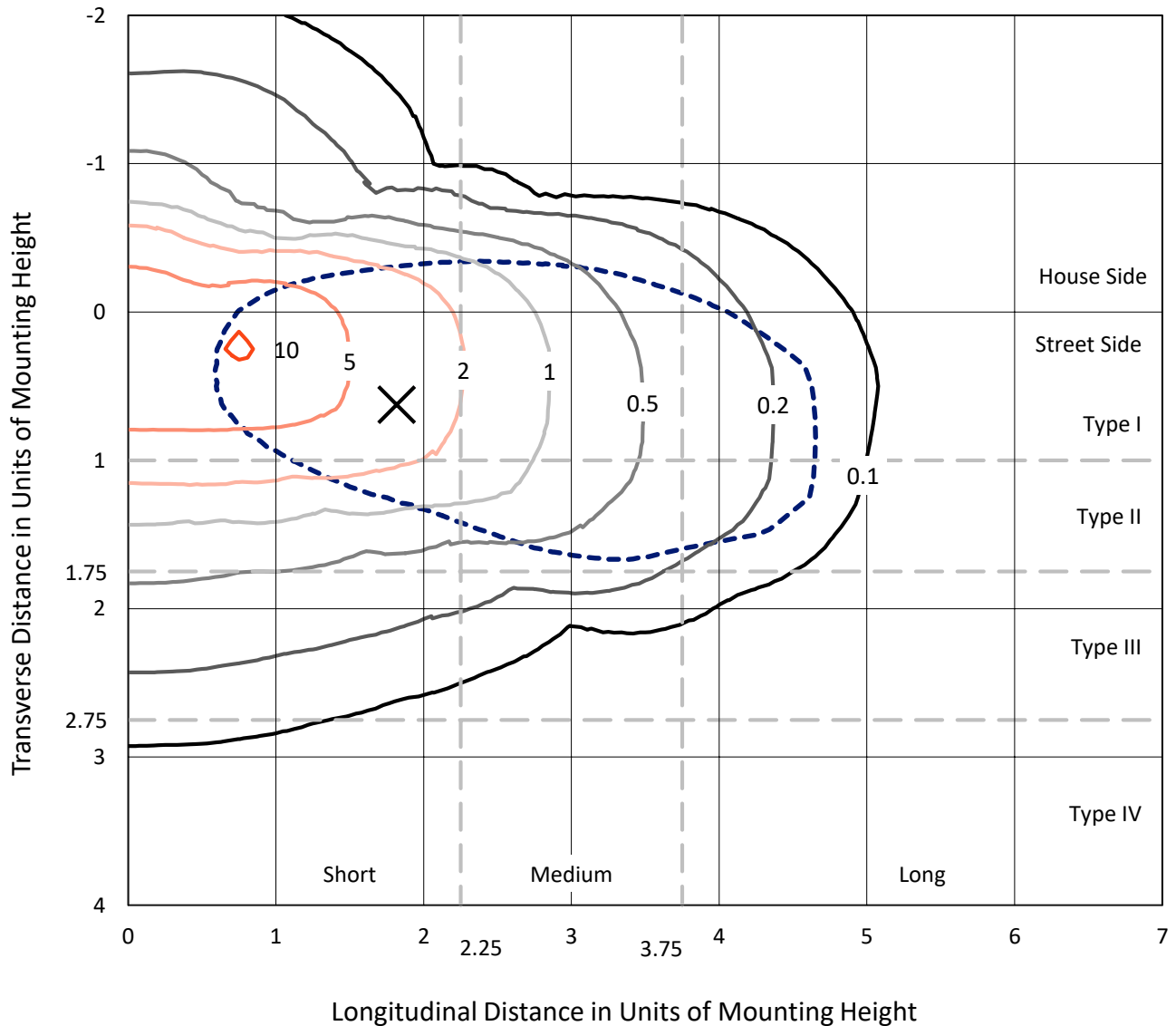


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

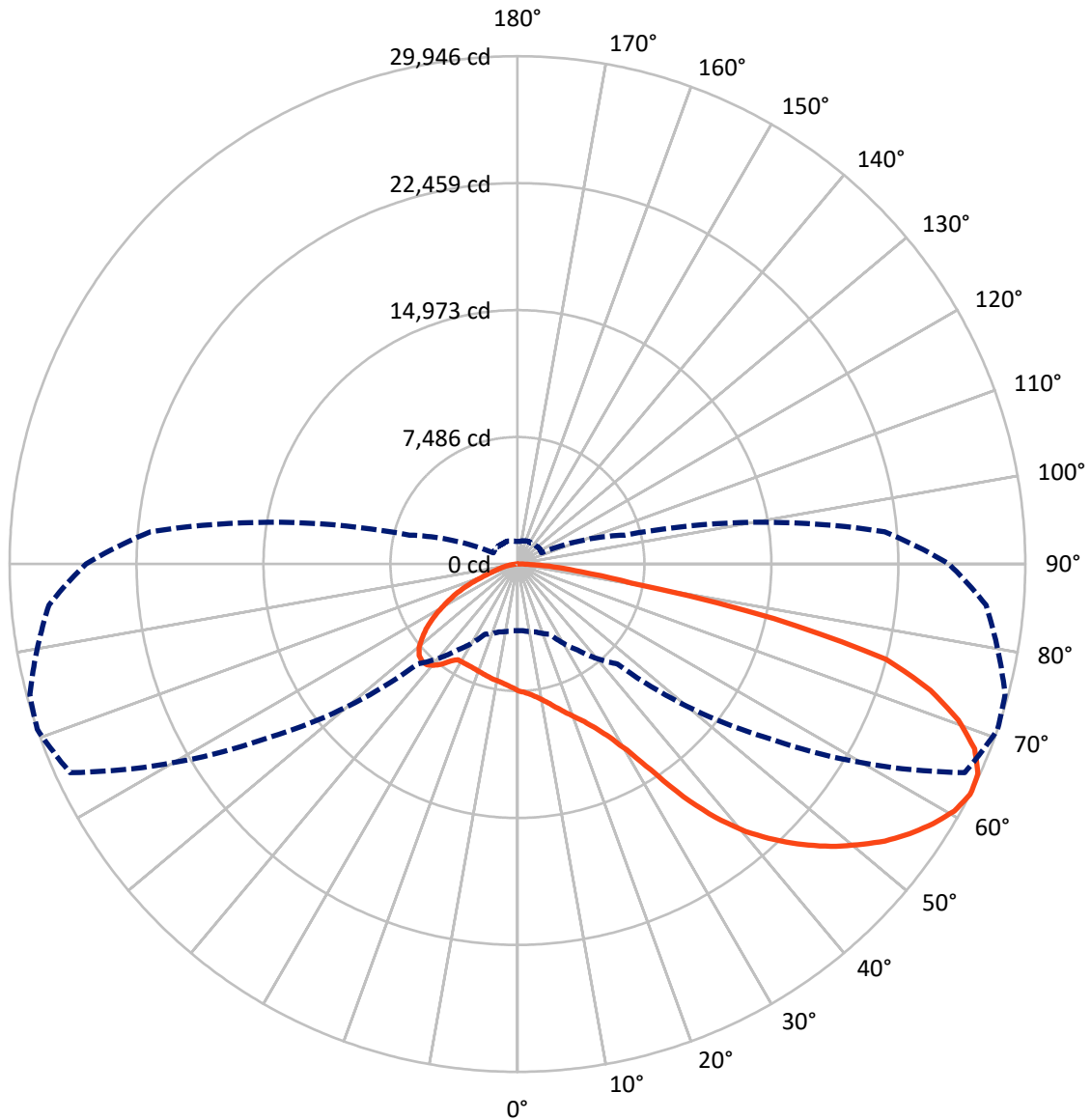


Based on 30 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - Non-Cutoff

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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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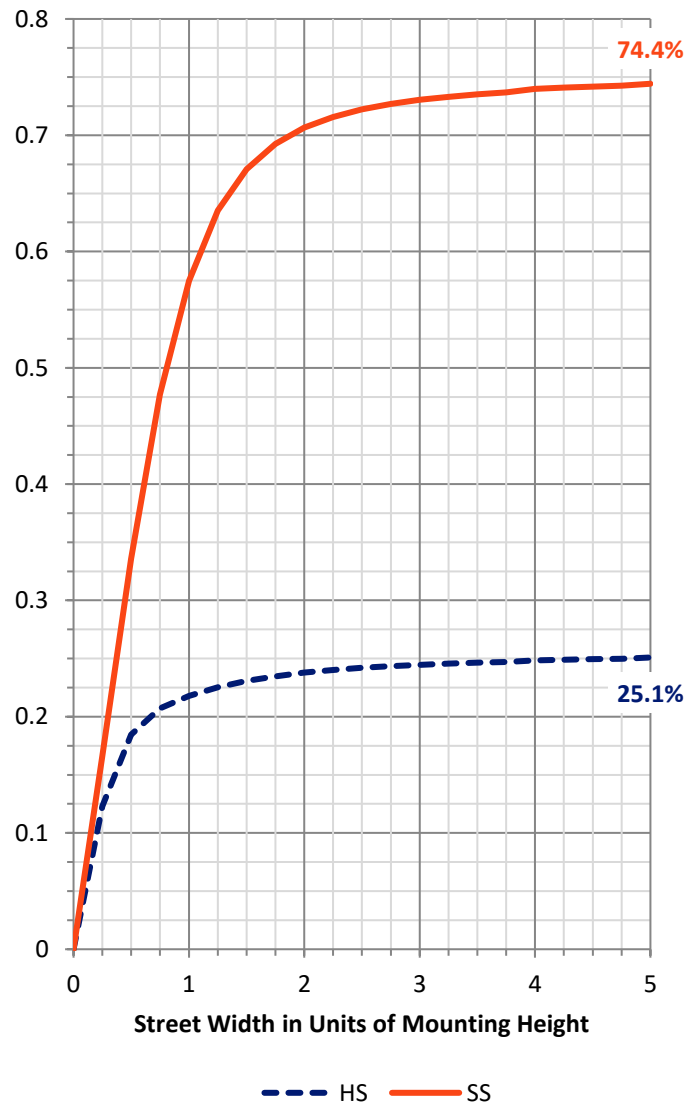
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11395.1	0.0	11395.1
	% Fixture	25.5	0.0	25.5
Street Side	Lumens	33226.7	0.0	33226.7
	% Fixture	74.5	0.0	74.5
Total	Lumens	44621.8	0.0	44621.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	720.7	1.6
10°-20°	2205.9	4.9
20°-30°	3739.4	8.4
30°-40°	5636.1	12.6
40°-50°	7742.7	17.4
50°-60°	9001.7	20.2
60°-70°	8882.1	19.9
70°-80°	5679.4	12.7
80°-90°	1013.8	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°	44621.8	100.0
0°-180°	44621.8	100.0



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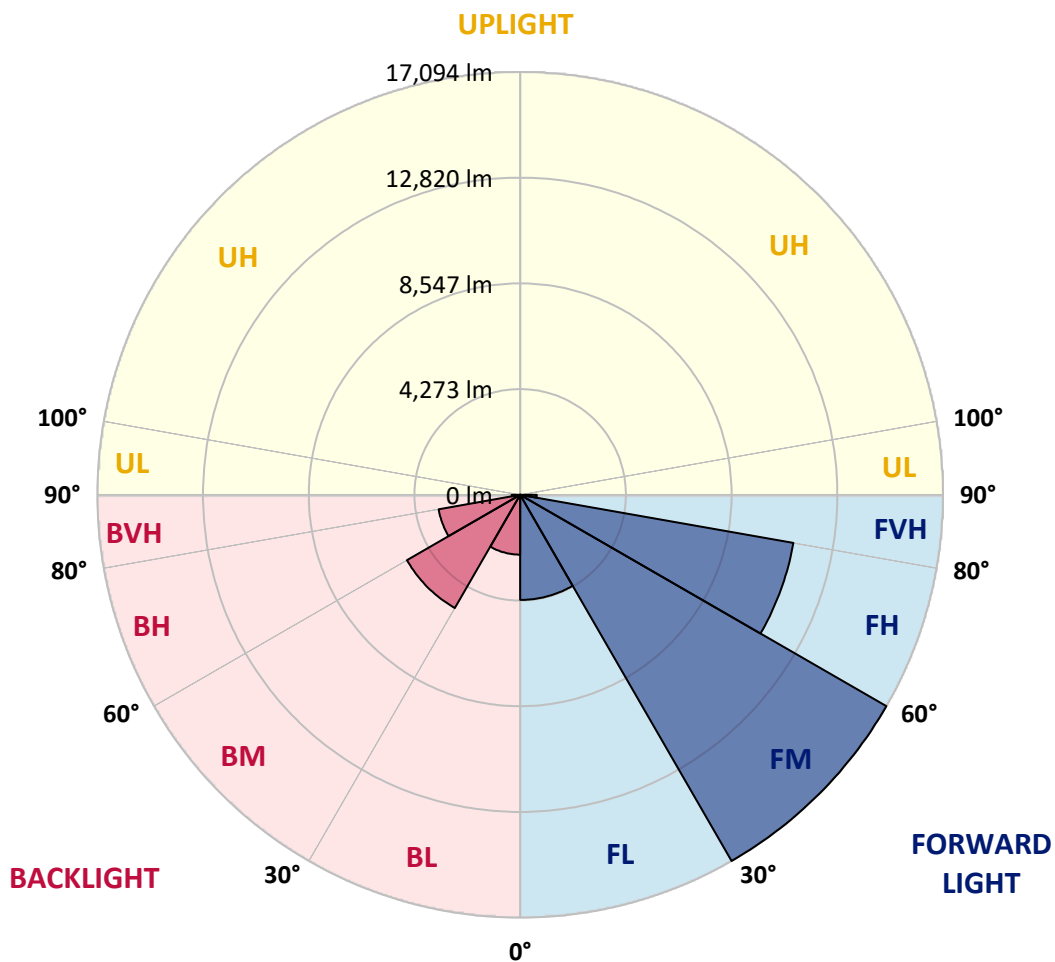
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4247.0	9.5			
FM (30°-60°)	17093.8	38.3			
FH (60°-80°)	11216.0	25.1			G4/12000
FVH (80°-90°)	669.9	1.5			G4/750
BL (0°-30°)	2419.0	5.4	B3/2500		
BM (30°-60°)	5286.6	11.8	B4/8500		
BH (60°-80°)	3345.6	7.5	B4/5000		G4/5000
BVH (80°-90°)	343.9	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	7480.9	7480.9	7480.9	7480.9	7480.9	7480.9	7480.9	7480.9	7480.9	7480.9	7480.9
2.5°	7975.3	7960.0	7941.3	7909.1	7871.7	7827.5	7781.6	7677.9	7571.0	7536.9	7463.9
5°	8413.7	8384.8	8361.0	8330.4	8259.1	8169.0	8048.4	7878.4	7711.9	7659.3	7508.0
7.5°	8801.0	8768.8	8726.3	8685.5	8607.3	8491.8	8328.7	8112.9	7912.5	7820.7	7574.4
10°	9146.0	9115.4	9093.3	9047.4	8984.6	8845.2	8651.5	8381.4	8148.6	8021.2	7679.7
12.5°	9528.2	9502.7	9456.9	9404.2	9321.0	9186.7	8993.0	8699.1	8451.0	8296.4	7841.0
15°	9917.3	9900.3	9818.8	9788.2	9694.7	9540.2	9368.6	9066.1	8813.0	8620.9	8072.1
17.5°	10262.2	10250.3	10199.3	10163.7	10087.2	9913.9	9737.2	9460.2	9202.1	8957.3	8328.7
20°	10483.0	10500.1	10489.8	10483.0	10478.0	10335.3	10160.3	9874.9	9614.9	9372.0	8604.0
22.5°	10688.7	10695.5	10722.7	10785.5	10875.5	10812.7	10624.1	10360.7	10095.7	9805.1	8960.7
25°	10753.2	10758.3	10863.7	11053.9	11307.1	11334.3	11179.7	11003.0	10714.1	10428.7	9450.1
27.5°	10805.9	10819.5	10952.1	11285.1	11730.1	11859.3	11803.3	11745.5	11541.6	11242.6	10107.6
30°	10790.6	10794.0	11013.2	11441.3	12066.5	12414.9	12499.8	12778.5	12727.5	12523.7	11208.5
32.5°	10510.3	10484.7	10802.5	11444.7	12329.9	12972.2	13364.7	14158.1	14458.8	14513.2	13410.5
35°	9939.4	9939.4	10415.1	11312.2	12520.3	13522.6	14350.1	15836.7	16851.1	16878.3	15503.8
37.5°	9463.6	9494.3	10027.7	11064.2	12608.6	14081.6	15479.9	17889.2	18959.6	18867.8	17252.1
40°	8989.6	9027.0	9574.1	10726.1	12555.9	14564.2	16575.9	19846.5	20736.8	20526.1	18742.1
42.5°	8464.6	8493.5	9006.6	10245.2	12374.1	14915.9	17753.3	21516.6	22225.1	21968.5	20101.3
45°	7939.6	7988.9	8451.0	9599.6	12019.1	15126.6	18762.5	23032.2	23606.5	23310.8	21338.2
47.5°	7166.5	7356.9	7895.4	8962.4	11375.1	15111.3	19657.9	24393.2	24880.7	24566.5	22452.8
50°	5594.9	5707.0	6894.8	8384.8	10525.5	14807.1	20364.7	25607.9	26026.0	25747.3	23579.3
52.5°	5081.8	5112.4	5496.4	7676.2	9584.3	14205.6	20888.0	26731.0	27138.7	26819.4	24598.7
55°	4818.5	4835.5	5024.0	6276.3	8785.7	13097.9	21125.9	27769.2	28076.6	27716.5	25461.9
57.5°	4460.0	4512.6	4776.0	5350.3	7968.5	11531.4	20818.3	28584.7	28892.2	28501.5	26287.5
60°	4195.0	4227.2	4453.2	4898.3	7022.2	9699.8	19754.7	29174.3	29588.8	29228.7	27053.8
62.5°	3933.3	3951.9	4142.3	4570.4	6208.3	8337.2	17768.6	29106.2	29945.6	29765.5	27733.4
63°	3878.9	3895.9	4086.2	4510.9	6087.6	8058.5	17350.6	29021.3	29945.6	29819.9	27818.3
65°	3637.7	3658.0	3846.6	4234.0	5583.0	7358.6	15485.0	28492.9	29838.5	29898.0	27939.1
67.5°	3279.1	3313.1	3469.5	3807.6	4825.3	6505.7	12717.3	27940.8	29070.6	29198.0	27271.3
70°	2856.1	2862.9	3051.5	3335.2	4067.5	5533.7	9803.4	26265.5	27570.3	27626.4	25709.9
72.5°	2405.9	2424.5	2594.4	2834.0	3374.3	4582.3	7008.6	23158.0	25473.7	25789.7	23095.1
75°	2100.0	2115.3	2258.0	2426.2	2801.7	3612.1	4687.6	16886.8	22457.9	22809.6	19977.3
77.5°	1758.5	1768.7	1918.2	2033.7	2276.7	2725.2	3236.7	8909.7	15468.1	17340.4	15607.3
80°	1252.2	1253.9	1403.4	1493.5	1649.7	1675.3	2057.6	4742.0	6806.4	8795.9	10314.8
82.5°	271.9	390.8	587.8	739.1	827.5	696.6	1012.6	2597.8	3760.0	4488.9	5591.5
85°	117.2	161.4	311.0	341.5	227.7	251.4	411.1	1384.8	2149.3	2558.7	2878.2
87.5°	22.0	28.9	79.8	107.0	66.2	69.6	83.2	443.5	752.6	883.5	985.5
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°	7480.9	7480.9	7480.9	7480.9	7480.9	7480.9	7480.9	7480.9	7480.9	7480.9	7480.9
2.5°	7419.7	7399.4	7331.3	7285.4	7256.6	7219.2	7171.6	7108.7	7090.1	7045.9	7081.6
5°	7424.8	7370.4	7227.7	7124.1	7030.6	6949.1	6853.9	6763.9	6729.9	6670.5	6694.2
7.5°	7448.6	7356.9	7136.0	6978.0	6838.7	6728.2	6595.7	6485.2	6446.2	6378.2	6390.1
10°	7511.5	7368.7	7064.7	6872.6	6680.7	6519.2	6364.6	6213.3	6145.4	6085.9	6114.9
12.5°	7621.8	7412.9	7032.3	6786.0	6531.1	6334.1	6108.1	5914.3	5819.2	5742.8	5768.3
15°	7788.4	7497.8	6994.9	6661.9	6354.4	6097.8	5820.9	5576.2	5469.2	5409.7	5438.7
17.5°	7958.3	7621.8	6972.9	6510.8	6142.0	5809.0	5542.3	5311.2	5115.8	5071.6	5088.6
20°	8158.8	7749.4	6989.8	6351.0	5892.3	5498.1	5182.1	5027.4	4774.3	4685.9	4691.0
22.5°	8423.9	7948.1	7005.2	6194.7	5594.9	5154.9	4786.2	4633.2	4390.3	4234.0	4240.8
25°	8804.4	8194.5	7040.8	6050.3	5302.7	4777.7	4351.2	4096.4	3945.2	3746.4	3748.1
27.5°	9326.1	8532.6	7112.1	5914.3	4991.8	4344.4	3822.8	3537.4	3404.9	3274.0	3257.1
30°	10216.4	9091.6	7217.5	5764.8	4623.1	3821.2	3265.6	3015.8	2903.7	2796.7	2784.7
32.5°	12095.5	10449.1	7363.7	5576.2	4225.5	3226.4	2772.8	2575.8	2417.7	2312.4	2327.6
35°	14023.9	12149.8	7982.1	5352.0	3777.0	2706.6	2402.5	2157.7	1955.6	1874.0	1879.1
37.5°	15675.4	13690.8	8911.4	5109.0	3280.8	2371.8	2030.3	1794.2	1632.8	1592.0	1643.0
40°	17049.9	14956.7	9657.4	4852.4	2759.2	2089.8	1654.8	1525.7	1422.1	1410.2	1456.1
42.5°	18349.6	16100.1	10284.3	4556.8	2273.3	1726.3	1374.5	1405.1	1389.8	1388.2	1394.9
45°	19530.5	17160.3	10634.3	4116.8	1930.1	1413.6	1298.1	1413.6	1439.1	1435.7	1417.0
47.5°	20605.9	18128.7	10872.1	3479.7	1634.5	1325.3	1340.6	1418.7	1466.3	1474.7	1454.4
50°	21722.2	19075.1	10909.6	2708.3	1517.2	1394.9	1377.9	1367.7	1454.4	1452.7	1454.4
52.5°	22719.6	19887.2	10501.8	2105.1	1578.4	1468.0	1408.5	1349.0	1398.3	1400.0	1366.0
55°	23470.5	20553.3	9803.4	1845.2	1629.4	1529.1	1496.9	1377.9	1347.3	1327.0	1338.9
57.5°	24245.3	21148.0	8855.4	1728.0	1644.6	1542.7	1575.0	1384.8	1338.9	1245.4	1238.6
60°	24991.2	21628.7	7732.3	1649.7	1626.0	1535.9	1525.7	1437.4	1349.0	1209.8	1162.2
62.5°	25444.8	21734.1	6583.8	1573.3	1590.3	1525.7	1471.4	1476.4	1415.3	1338.9	1328.7
63°	25497.5	21698.5	6364.6	1554.7	1581.8	1524.0	1471.4	1479.8	1415.3	1369.4	1371.1
65°	25431.2	21283.9	5504.9	1474.7	1551.3	1496.9	1449.3	1406.8	1301.5	1330.4	1364.3
67.5°	24687.1	19928.0	4232.3	1345.6	1483.2	1452.7	1383.1	1277.7	1182.5	1163.9	1184.2
70°	22677.1	17707.4	2998.8	1146.8	1360.9	1396.6	1366.0	1208.0	1112.9	1095.8	1136.6
72.5°	19887.2	15374.6	2059.3	917.4	1140.0	1299.8	1291.3	1163.9	1078.9	1029.6	1050.0
75°	16740.7	12401.3	1439.1	773.1	878.4	1170.7	1225.0	1126.5	1061.9	1016.0	1009.2
77.5°	12888.9	9366.8	1131.5	661.0	725.5	948.1	1126.5	1118.0	1197.8	1413.6	1366.0
80°	8780.6	6228.7	815.5	496.1	577.6	664.3	970.1	1153.7	1515.6	890.3	873.4
82.5°	5103.9	3659.7	509.7	329.6	344.9	451.9	608.3	1218.2	1014.3	401.0	506.3
85°	2465.3	1593.7	254.9	227.7	158.0	169.9	282.0	1134.9	718.7	178.4	35.7
87.5°	786.7	387.4	27.1	20.4	23.7	34.0	134.2	693.2	423.1	152.9	22.0
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)