

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: P198575

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV2-AF-02-LED-U-SL4-7030
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10183 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

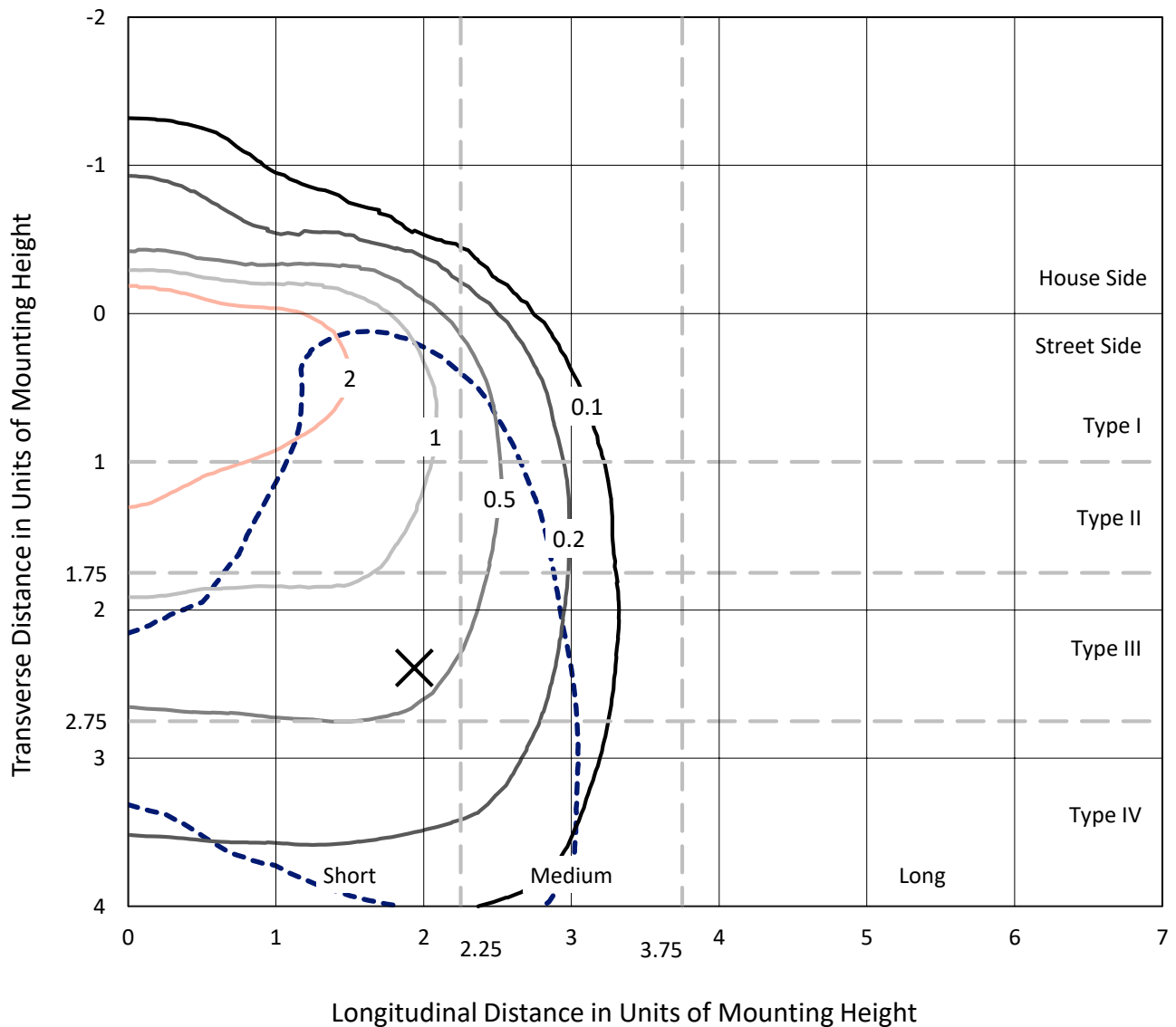
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

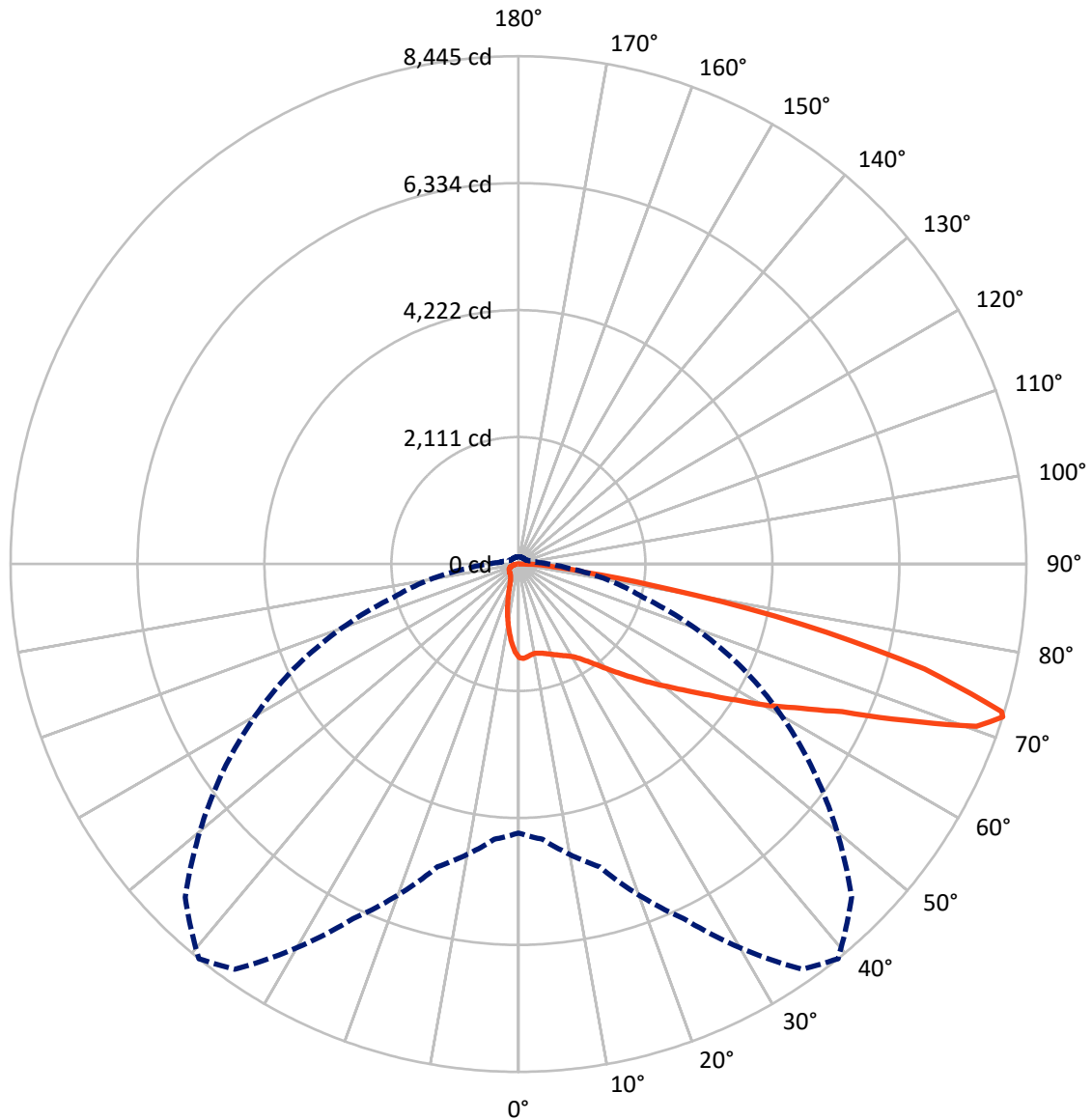
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical



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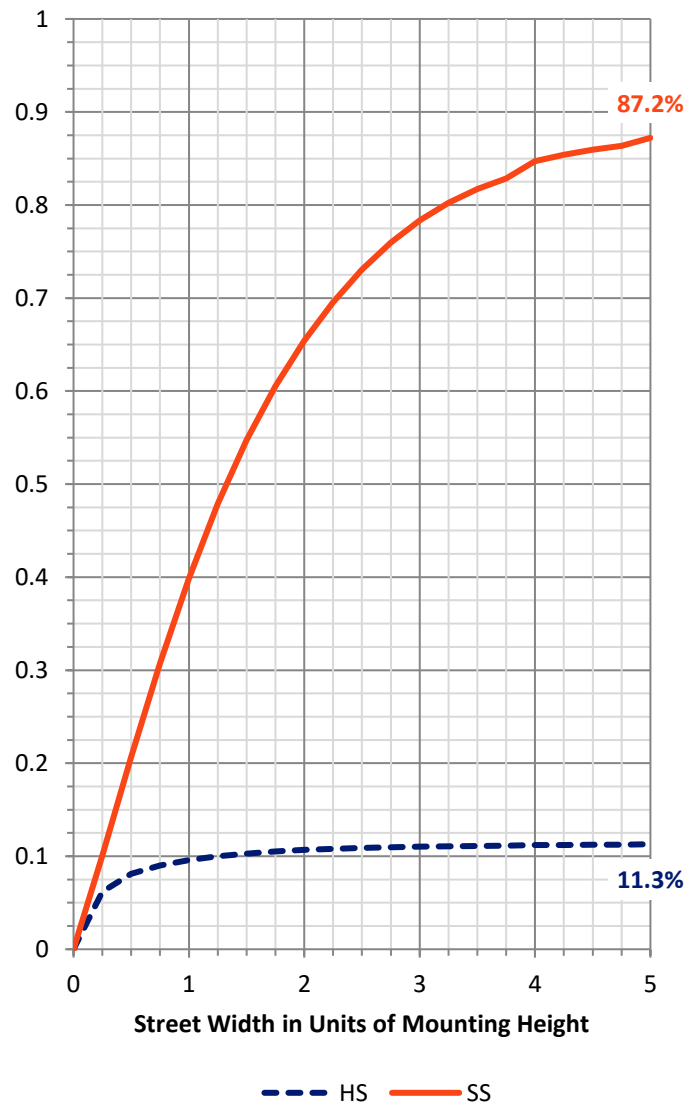
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1167.6	0.0	1167.6
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	9015.4	0.0	9015.4
	% Fixture	88.5	0.0	88.5
Total	Lumens	10183.0	0.0	10183.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	1.3
10°-20°	335.8	3.3
20°-30°	523.3	5.1
30°-40°	805.8	7.9
40°-50°	1313.6	12.9
50°-60°	2041.1	20.0
60°-70°	2732.0	26.8
70°-80°	1964.7	19.3
80°-90°	333.1	3.3
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°	10183.0	100.0
0°-180°	10183.0	100.0



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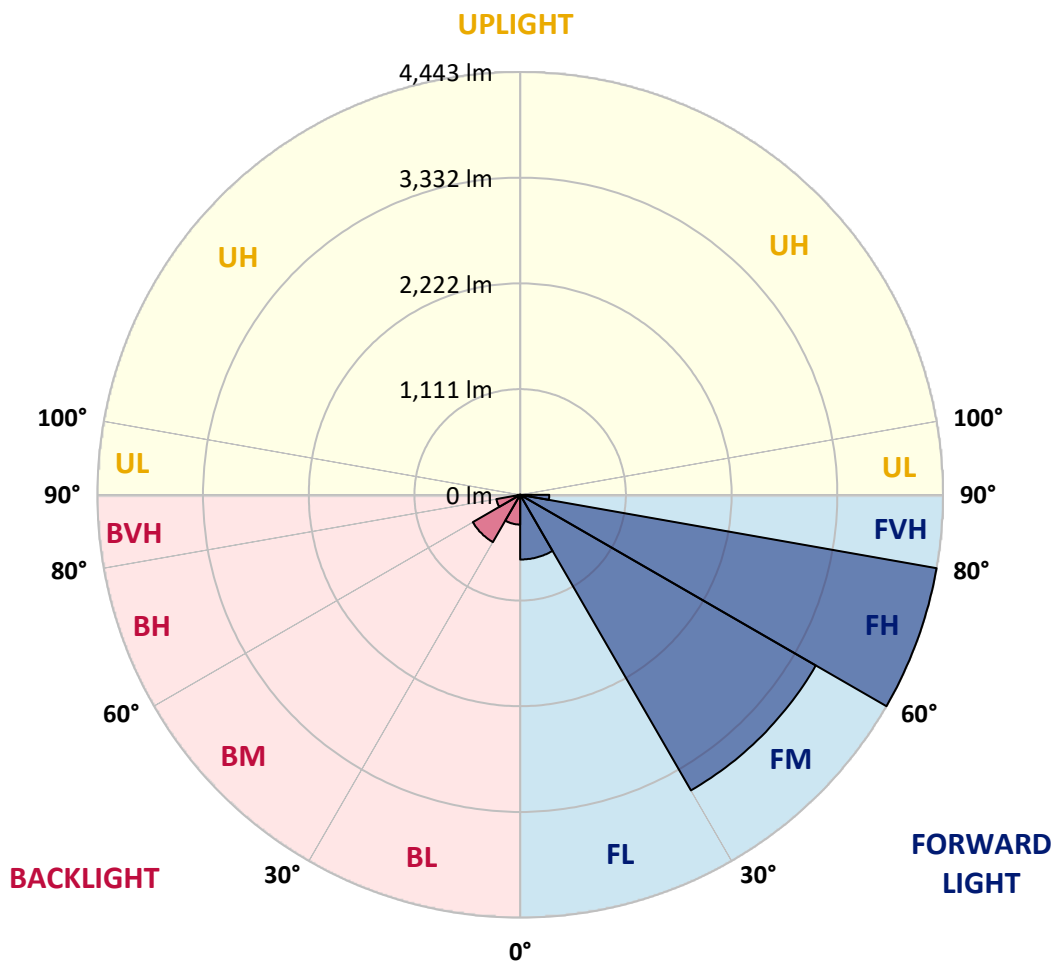
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	680.2	6.7			
FM	(30°-60°)	3586.6	35.2			
FH	(60°-80°)	4443.0	43.6			G2/5000
FVH	(80°-90°)	305.5	3.0			G3/500
BL	(0°-30°)	312.6	3.1	B1/500		
BM	(30°-60°)	573.8	5.6	B1/1000		
BH	(60°-80°)	253.7	2.5	B1/500		G1/500
BVH	(80°-90°)	27.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1555.1	1555.1	1555.1	1555.1	1555.1	1555.1	1555.1	1555.1	1555.1	1555.1	1555.1
2.5°	1588.6	1589.3	1587.3	1581.1	1575.6	1572.9	1568.1	1559.9	1549.0	1541.5	1535.3
5°	1573.6	1575.6	1574.3	1564.0	1554.4	1549.0	1541.5	1529.8	1515.5	1509.3	1495.0
7.5°	1562.0	1563.3	1559.2	1547.6	1529.2	1522.3	1508.6	1493.6	1480.6	1471.7	1454.6
10°	1553.8	1555.1	1551.7	1540.1	1519.6	1511.4	1495.0	1478.6	1461.5	1450.5	1431.4
12.5°	1542.1	1544.9	1544.9	1539.4	1525.7	1520.3	1503.9	1486.1	1470.4	1458.7	1434.8
15°	1540.1	1543.5	1549.7	1549.0	1544.9	1540.8	1527.8	1510.0	1496.3	1482.7	1453.3
17.5°	1557.2	1564.7	1577.0	1581.1	1578.4	1569.5	1554.4	1538.0	1523.0	1510.0	1473.8
20°	1600.2	1604.3	1622.8	1631.0	1617.3	1604.3	1584.5	1563.3	1549.7	1539.4	1492.9
22.5°	1665.2	1670.7	1685.7	1686.4	1657.7	1641.9	1616.6	1590.7	1577.7	1573.6	1518.9
25°	1769.1	1767.7	1771.8	1754.7	1702.8	1684.3	1653.6	1623.5	1614.6	1622.8	1557.2
27.5°	1893.5	1890.1	1877.1	1832.7	1754.0	1730.1	1693.2	1666.5	1666.5	1685.7	1609.1
30°	2037.0	2033.6	1991.2	1916.7	1814.9	1787.5	1748.6	1720.6	1734.9	1771.8	1679.5
32.5°	2188.8	2176.5	2117.0	2017.2	1901.7	1871.6	1834.0	1805.3	1832.7	1895.5	1780.7
35°	2331.7	2324.8	2251.7	2133.4	2013.8	1988.5	1962.5	1927.0	1970.7	2068.5	1923.6
37.5°	2479.3	2473.8	2384.3	2258.5	2150.5	2133.4	2111.6	2086.9	2157.4	2285.9	2117.0
40°	2644.1	2633.1	2520.3	2394.6	2309.8	2301.6	2290.0	2283.1	2396.6	2588.0	2361.7
42.5°	2830.7	2809.5	2663.9	2544.3	2483.4	2490.3	2484.1	2511.4	2685.1	2936.6	2652.9
45°	3043.9	3001.6	2806.7	2703.5	2675.5	2702.8	2715.8	2785.6	3026.2	3339.3	2978.3
47.5°	3243.6	3188.9	2963.3	2876.5	2892.2	2939.4	2976.3	3099.3	3400.1	3737.1	3310.5
50°	3427.4	3365.9	3130.8	3055.6	3132.1	3199.1	3275.7	3449.3	3797.9	4146.5	3615.4
52.5°	3563.5	3519.0	3298.2	3251.1	3407.6	3496.5	3618.8	3838.3	4199.9	4536.9	3887.5
55°	3668.7	3644.8	3461.6	3475.3	3719.3	3846.5	3994.8	4247.0	4625.1	4886.9	4106.2
57.5°	3790.4	3772.6	3648.2	3746.0	4106.2	4266.2	4441.2	4721.4	5029.7	5195.1	4277.8
60°	3918.9	3918.9	3856.0	4072.0	4590.2	4773.4	4947.7	5165.8	5433.0	5472.7	4347.5
62.5°	4016.0	4041.3	4063.8	4419.3	5049.5	5277.2	5468.6	5677.8	5850.7	5609.4	4183.5
65°	4156.8	4210.8	4337.9	4820.6	5618.3	5916.3	6174.7	6350.4	6189.1	5500.7	3648.2
67.5°	4398.8	4478.8	4749.5	5418.0	6489.2	6935.5	7186.4	6882.9	6122.8	4816.5	2794.4
70°	4616.8	4729.6	5192.4	6176.1	7621.1	8084.6	7969.1	6759.2	5332.5	3530.7	1719.2
72°	4471.9	4595.0	5212.9	6506.2	8226.1	8444.9	7835.8	5990.1	4120.6	2154.6	847.6
72.5°	4376.9	4504.7	5146.6	6498.0	8242.5	8399.1	7650.5	5684.6	3740.5	1885.3	685.6
75°	3656.4	3765.8	4425.4	5759.1	7263.6	6976.5	5970.3	3679.0	1719.2	609.1	352.7
77.5°	2387.7	2471.1	3051.5	3990.0	5087.8	4811.7	3633.9	1722.6	644.6	369.8	265.2
80°	1199.7	1259.1	1633.1	2097.9	2745.9	2526.5	1677.5	833.3	431.3	267.3	208.5
82.5°	834.6	889.3	1124.5	1071.2	1147.7	1110.8	788.8	695.2	322.6	168.8	109.4
85°	700.0	756.7	930.3	763.6	624.8	569.4	565.3	656.9	213.3	83.4	92.3
87.5°	610.4	696.6	767.7	557.8	428.6	378.0	416.3	602.2	67.7	45.8	28.0
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°	1555.1	1555.1	1555.1	1555.1	1555.1	1555.1	1555.1	1555.1	1555.1	1555.1	1555.1
2.5°	1525.0	1523.0	1512.7	1497.0	1485.4	1477.9	1463.5	1462.8	1464.2	1451.9	1456.7
5°	1482.0	1473.8	1447.1	1410.9	1381.5	1353.5	1322.7	1312.5	1303.6	1285.1	1287.2
7.5°	1436.9	1422.5	1376.0	1316.6	1259.8	1207.9	1156.6	1131.3	1112.2	1088.2	1088.2
10°	1410.2	1387.7	1316.6	1229.7	1139.5	1063.6	987.1	941.3	907.8	877.0	875.0
12.5°	1408.8	1374.7	1275.5	1155.9	1032.2	925.6	821.0	750.6	700.7	664.4	661.0
15°	1419.8	1371.9	1241.4	1086.9	931.0	792.3	663.1	573.5	509.9	469.6	465.5
17.5°	1429.3	1368.5	1204.5	1014.4	832.6	663.7	520.2	427.2	367.1	334.3	330.8
20°	1438.2	1361.0	1157.3	937.9	723.9	543.4	406.7	331.5	291.9	273.4	271.4
22.5°	1451.2	1354.2	1108.1	851.7	617.3	442.3	335.6	281.6	260.4	251.6	250.2
25°	1472.4	1354.8	1060.2	763.6	519.5	368.4	290.5	257.0	245.4	239.3	239.3
27.5°	1503.2	1363.0	1013.1	674.0	436.8	317.9	263.9	244.0	236.5	231.7	230.4
30°	1548.3	1378.1	963.2	589.2	371.2	283.0	248.1	235.8	229.7	225.6	224.9
32.5°	1613.9	1404.7	910.5	512.0	321.3	258.4	236.5	229.0	224.2	220.8	220.1
35°	1711.7	1451.9	859.3	446.4	285.7	240.6	226.9	220.8	218.1	216.7	216.0
37.5°	1855.2	1527.8	810.7	395.1	262.5	229.0	217.4	214.0	212.6	212.6	212.6
40°	2035.7	1627.6	767.0	358.9	249.5	220.1	210.5	207.8	207.8	208.5	208.5
42.5°	2255.1	1752.7	729.4	334.3	242.0	214.0	205.8	204.4	203.7	203.7	204.4
45°	2510.1	1900.3	706.1	315.1	236.5	210.5	202.3	201.7	198.9	197.6	197.6
47.5°	2766.4	2058.2	704.8	304.2	229.7	206.4	198.9	198.9	193.5	190.7	191.4
50°	3005.7	2199.7	719.8	301.5	225.6	200.3	195.5	196.2	188.7	185.2	184.6
52.5°	3198.4	2307.7	738.3	304.9	225.6	194.8	189.3	192.8	184.6	180.5	179.8
55°	3347.5	2382.9	745.1	312.4	228.3	190.0	183.9	189.3	183.2	177.7	177.7
57.5°	3454.1	2406.9	715.7	315.8	232.4	189.3	178.4	188.7	185.2	178.4	178.4
60°	3415.1	2268.1	606.3	302.8	231.7	188.0	174.3	190.0	192.1	184.6	184.6
62.5°	3110.9	1897.6	486.7	273.4	220.1	183.2	169.5	188.7	196.9	194.1	192.8
65°	2532.6	1391.8	377.3	238.6	200.3	172.9	159.3	176.4	185.9	188.7	189.3
67.5°	1784.8	881.1	293.3	203.0	175.7	157.9	147.7	155.9	159.3	160.6	163.4
70°	976.1	477.1	233.1	170.9	150.4	142.9	135.3	136.0	134.7	133.3	134.7
72°	490.1	311.7	196.9	148.3	133.3	128.5	125.1	123.0	123.0	121.0	121.7
72.5°	421.8	289.8	190.0	142.9	129.2	125.1	122.4	120.3	119.6	118.3	118.9
75°	280.9	229.7	158.6	119.6	110.1	107.3	108.7	106.6	107.3	106.0	106.6
77.5°	226.9	197.6	134.7	101.2	94.3	90.2	93.0	93.6	95.0	93.6	93.0
80°	190.0	168.2	112.8	83.4	78.6	75.2	76.6	81.3	82.0	77.9	77.2
82.5°	123.0	135.3	88.9	64.9	60.2	58.8	62.2	67.0	68.4	62.9	61.5
85°	103.2	108.7	64.3	44.4	39.6	38.3	45.1	49.9	53.3	47.9	46.5
87.5°	28.7	53.3	31.4	21.2	17.8	17.8	21.9	26.0	30.8	31.4	31.4
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)