

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: P964196

Luminaire Tested: **NVN-SB3B-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3B-830-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13175.4 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 109.2
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



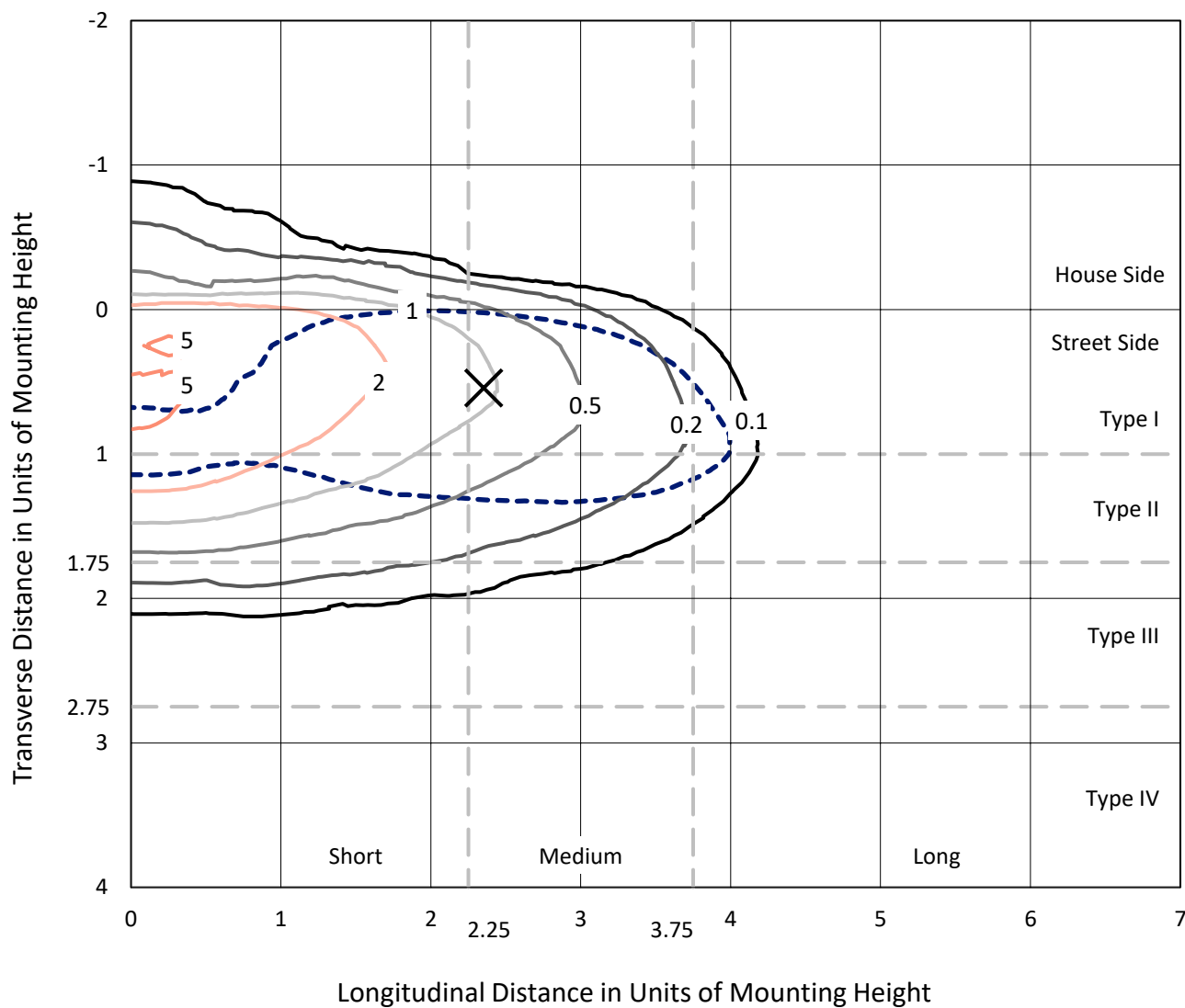
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Iso-Footcandle Lines of Horizontal Illumination

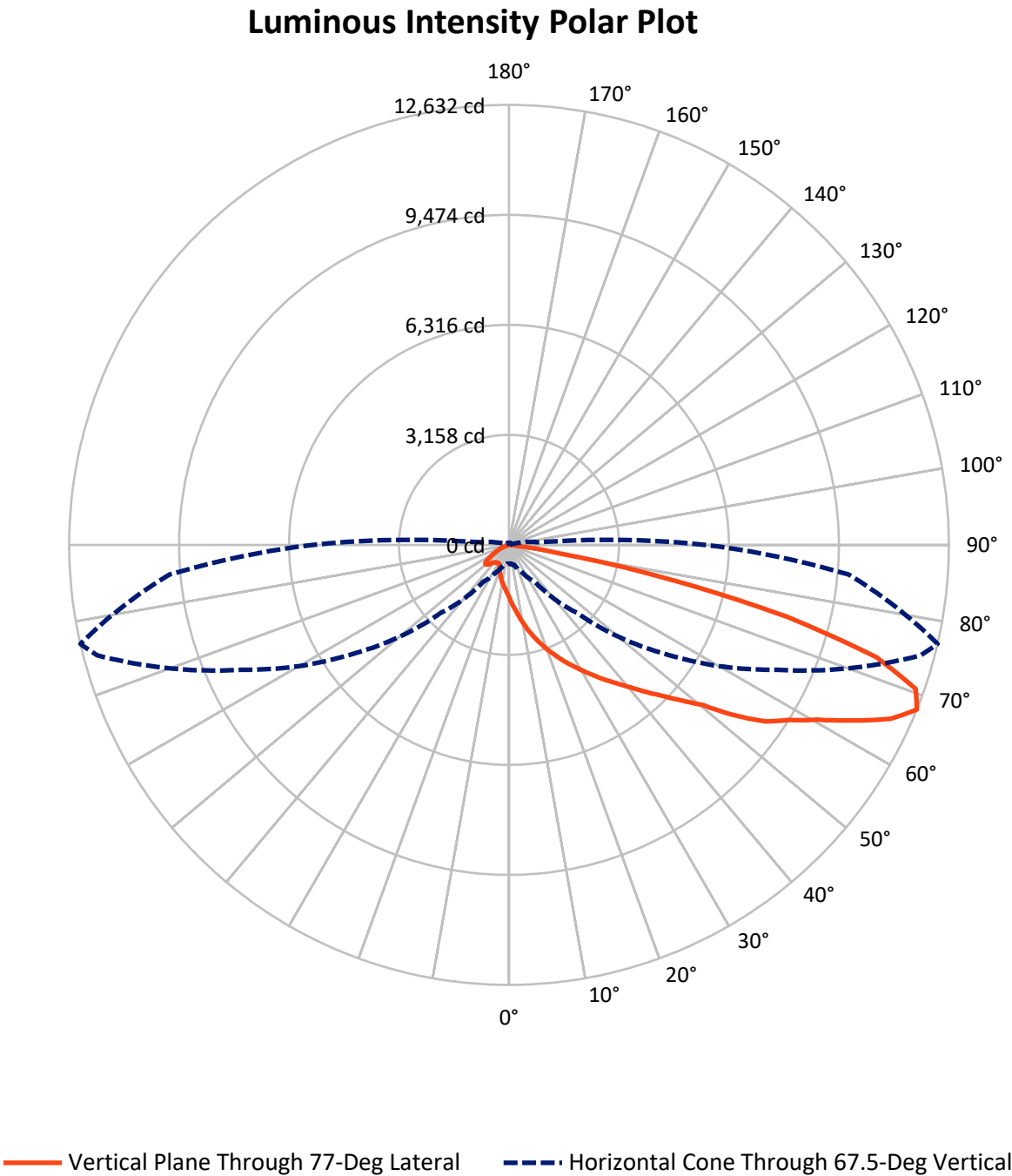
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type II - Medium - N/A

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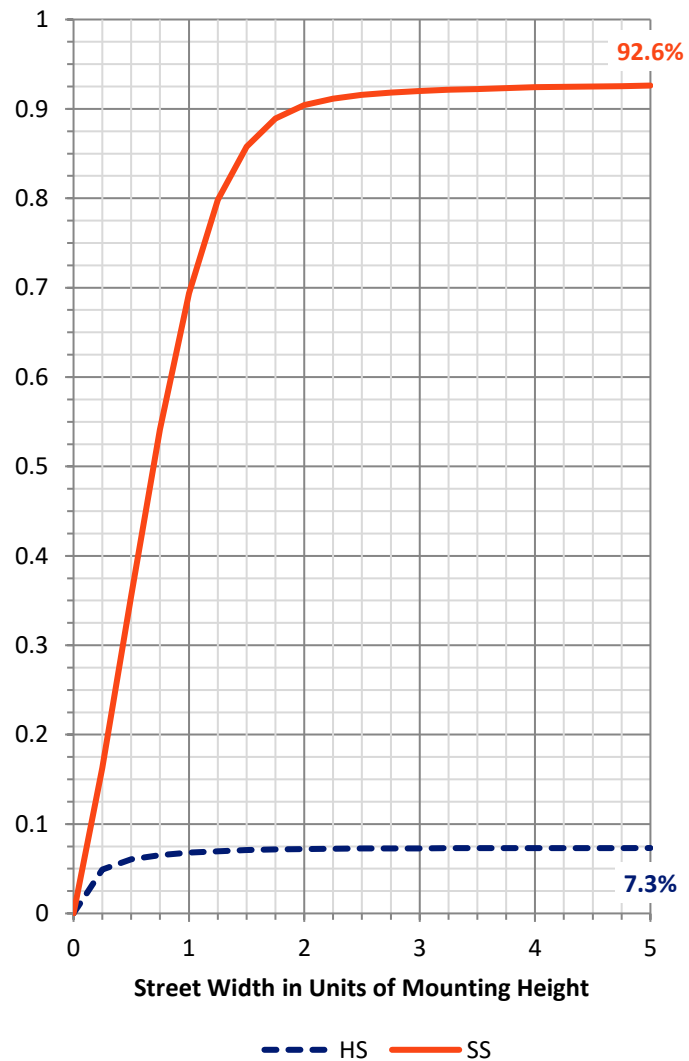
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	969.3	0.0	969.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	12206.0	0.0	12206.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	13175.4	0.0	13175.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	1.2
10°-20°	543.0	4.1
20°-30°	1047.9	8.0
30°-40°	1819.2	13.8
40°-50°	2641.4	20.0
50°-60°	3033.4	23.0
60°-70°	2633.5	20.0
70°-80°	1240.4	9.4
80°-90°	61.3	0.5
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°	13175.4	100.0
0°-180°	13175.4	100.0

Coefficient of Utilization



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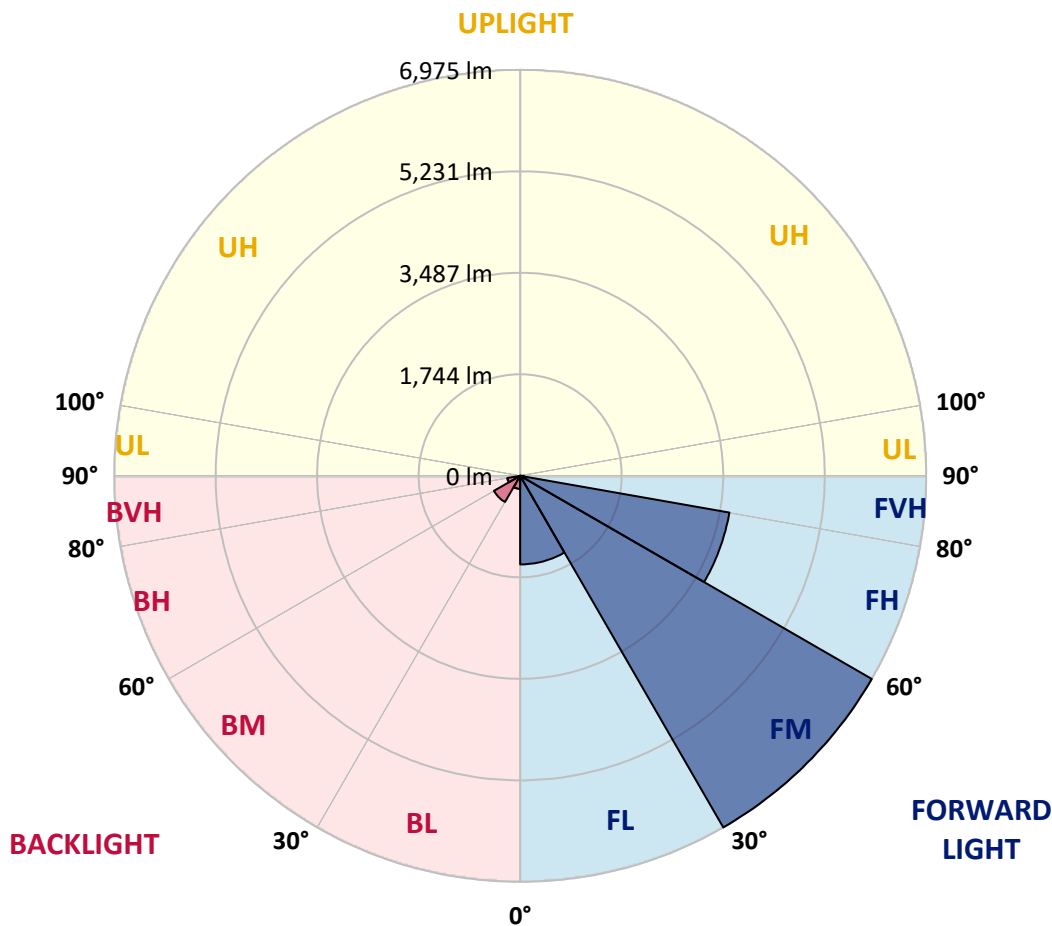
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1521.6	11.5			
FM	(30°-60°)	6974.7	52.9			
FH	(60°-80°)	3649.5	27.7			G2/5000
FVH	(80°-90°)	60.2	0.5			G1/100
BL	(0°-30°)	224.4	1.7	B1/500		
BM	(30°-60°)	519.4	3.9	B1/1000		
BH	(60°-80°)	224.4	1.7	B1/500		G1/500
BVH	(80°-90°)	1.1	0.0			G0/10
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1519.4	1519.4	1519.4	1519.4	1519.4	1519.4	1519.4	1519.4	1519.4	1519.4	1519.4
2.5°	2103.5	2116.5	2097.8	2061.8	2007.8	1972.6	1886.6	1805.6	1715.6	1687.0	1597.1
5°	2564.1	2575.5	2554.3	2515.0	2443.0	2374.3	2261.4	2092.0	1916.1	1859.7	1700.2
7.5°	2905.3	2911.8	2903.6	2867.6	2798.9	2721.2	2595.2	2394.7	2133.7	2071.5	1827.0
10°	3150.7	3172.0	3169.5	3155.7	3109.8	3046.8	2912.6	2684.4	2377.6	2297.3	1970.2
12.5°	3313.5	3337.3	3351.1	3382.3	3379.8	3339.7	3221.9	2980.5	2620.5	2526.4	2131.3
15°	3361.0	3386.3	3439.5	3511.5	3575.3	3595.8	3513.2	3271.0	2888.0	2767.8	2296.5
17.5°	3334.0	3373.3	3437.0	3550.8	3690.7	3783.2	3774.2	3551.6	3131.1	2993.6	2458.6
20°	3393.7	3431.3	3481.2	3576.9	3739.8	3907.5	3974.5	3820.0	3372.5	3228.4	2628.7
22.5°	3724.2	3717.7	3722.6	3738.2	3835.6	4001.6	4139.9	4063.8	3611.3	3464.1	2808.7
25°	4247.8	4218.4	4168.5	4084.2	4059.7	4139.9	4283.9	4279.8	3863.3	3705.4	2992.8
27.5°	4848.4	4843.4	4726.5	4523.5	4409.0	4378.0	4446.7	4490.0	4112.8	3944.3	3177.7
30°	5423.6	5436.6	5278.7	5052.9	4842.6	4720.7	4658.5	4689.7	4366.5	4202.0	3368.4
32.5°	5924.3	5938.1	5766.3	5502.1	5242.0	5094.7	4963.8	4886.8	4643.0	4463.9	3577.8
35°	6347.2	6361.2	6163.9	5871.9	5594.6	5461.2	5313.1	5102.9	4921.2	4754.3	3811.0
37.5°	6725.2	6721.1	6456.9	6162.3	5889.9	5784.4	5706.6	5368.7	5207.5	5046.4	4069.5
40°	6948.6	6965.8	6740.0	6415.2	6150.9	6073.9	6069.0	5698.5	5538.1	5381.9	4352.6
42.5°	7014.1	7044.3	6880.7	6613.9	6374.3	6290.8	6419.3	6055.2	5922.7	5770.4	4672.5
45°	6896.2	6925.7	6851.2	6666.3	6526.4	6472.5	6720.3	6425.0	6333.4	6182.8	5033.3
47.5°	6552.6	6589.4	6607.5	6568.1	6566.5	6621.3	6990.3	6814.4	6821.0	6667.1	5451.4
50°	5887.4	5949.6	6114.8	6253.9	6469.2	6739.2	7252.9	7236.6	7370.8	7238.2	5996.2
52.5°	4678.2	4766.6	5336.0	5716.4	6200.0	6717.0	7541.7	7914.0	8335.3	8141.5	6764.5
55°	3759.4	3759.4	4222.5	4934.2	5674.7	6571.4	7667.7	8354.2	8992.3	8946.5	7305.3
57.5°	3064.9	3101.6	3397.0	4026.1	4914.7	6224.5	7745.4	8630.7	9521.6	9488.1	7833.9
60°	1891.5	1971.0	2528.9	3149.9	4049.9	5606.9	7696.4	8910.5	10163.9	10191.0	8470.4
62.5°	1065.3	1094.7	1343.4	2266.3	3149.1	4776.4	7320.9	9066.7	10985.3	11099.9	9126.5
65°	735.5	750.2	845.9	1410.5	2182.8	3802.7	6587.0	8969.5	11808.4	12040.0	9682.9
67.5°	534.2	541.6	601.4	861.5	1295.1	2757.1	5436.6	8478.5	12244.4	12631.5	9789.2
70°	410.7	415.6	459.0	566.2	765.0	1701.8	3948.4	7502.5	11928.6	12390.9	9244.3
72.5°	333.8	338.8	372.3	418.9	507.3	1006.3	2393.1	6092.8	10534.5	11033.6	7869.8
75°	281.5	288.0	318.3	348.5	397.6	646.4	1122.5	4243.0	7922.2	8249.4	5472.7
77.5°	156.3	144.0	258.5	288.8	335.5	409.1	525.2	2497.0	4436.8	4527.6	2428.3
80°	97.4	100.7	205.3	232.4	257.7	206.1	240.6	961.3	1538.1	1461.2	470.5
82.5°	5.7	13.1	158.0	167.7	176.7	88.4	90.8	326.5	370.6	340.4	83.4
85°	0.0	0.0	72.0	58.1	61.4	25.3	26.1	76.1	49.9	54.0	16.4
87.5°	0.0	0.0	0.0	1.6	0.0	2.5	4.9	6.6	2.5	3.3	5.7
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°	1519.4	1519.4	1519.4	1519.4	1519.4	1519.4	1519.4	1519.4	1519.4	1519.4	1519.4
2.5°	1539.8	1482.5	1366.3	1252.6	1160.1	1074.2	1012.9	954.8	925.4	923.7	922.1
5°	1586.4	1466.2	1233.8	1028.4	863.2	730.6	644.7	583.3	552.3	541.6	540.0
7.5°	1651.9	1471.1	1117.6	832.1	637.3	523.6	474.6	454.9	448.3	441.0	439.3
10°	1734.5	1482.5	1013.7	670.0	502.4	445.1	425.5	417.3	412.4	407.4	405.8
12.5°	1827.0	1493.1	910.6	556.4	441.8	412.4	398.4	388.6	382.1	376.4	374.7
15°	1917.0	1499.7	803.4	476.9	410.7	386.9	372.3	361.6	352.6	346.0	345.2
17.5°	2006.1	1508.7	702.8	429.6	385.4	361.6	346.9	333.8	326.5	319.1	318.3
20°	2105.1	1507.1	607.9	396.0	360.0	336.3	320.7	308.4	301.0	292.9	292.1
22.5°	2196.8	1498.9	524.4	367.4	333.8	310.9	293.8	281.5	274.1	267.5	266.7
25°	2302.3	1492.3	454.9	341.1	309.2	286.4	267.5	256.0	247.9	242.2	241.4
27.5°	2403.7	1482.5	404.2	317.4	285.6	263.4	245.5	232.4	225.0	220.9	220.9
30°	2503.6	1480.0	385.4	294.6	264.2	242.2	224.2	211.9	206.1	204.5	203.8
32.5°	2623.8	1486.6	393.5	286.4	244.7	222.5	205.3	196.4	190.6	190.6	190.6
35°	2752.2	1484.9	405.8	293.8	231.5	203.0	189.8	184.1	178.4	178.4	178.4
37.5°	2913.5	1487.4	415.6	306.0	226.6	186.5	179.2	171.8	168.5	168.5	168.5
40°	3154.0	1568.4	410.7	316.6	225.0	175.1	160.3	158.0	155.5	155.5	155.5
42.5°	3448.5	1744.3	417.3	317.4	224.2	166.9	147.3	152.2	146.5	145.7	144.8
45°	3770.9	1936.5	459.0	300.2	223.3	162.8	140.7	146.5	137.5	137.5	137.5
47.5°	4090.8	2127.2	501.5	275.7	220.9	162.0	135.0	131.7	129.3	130.1	130.1
50°	4531.7	2282.7	517.9	242.2	215.1	160.3	124.3	125.2	123.5	125.2	125.2
52.5°	5012.0	2315.4	498.3	204.5	198.8	155.5	117.0	120.2	119.4	121.1	121.1
55°	5311.4	2280.2	411.5	170.1	173.4	135.8	109.7	116.1	116.1	116.1	116.1
57.5°	5620.7	2130.5	292.1	138.3	144.0	111.3	103.1	112.1	111.3	110.5	110.5
60°	5843.2	1888.3	192.3	113.7	114.5	91.6	95.7	105.6	104.8	100.7	100.7
62.5°	6009.4	1620.7	123.5	96.6	87.5	82.6	87.5	95.7	92.5	83.4	81.8
65°	5990.5	1250.1	94.9	82.6	72.0	72.0	76.1	83.4	73.6	58.9	57.3
67.5°	5641.2	845.9	78.5	69.5	60.6	59.8	63.0	69.5	63.0	49.9	48.3
70°	5017.0	553.1	63.0	54.0	48.3	44.2	50.7	59.8	53.2	40.1	38.4
72.5°	4071.9	337.1	47.5	39.3	35.2	28.6	40.1	49.1	42.5	29.4	27.8
75°	2634.5	171.8	32.7	25.3	18.9	17.2	29.4	36.8	29.4	18.0	15.6
77.5°	1008.0	72.0	18.0	11.5	9.8	8.2	16.4	22.1	12.3	4.1	3.3
80°	193.9	30.2	9.0	5.7	4.9	3.3	2.5	1.6	0.0	0.0	0.0
82.5°	33.5	9.8	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)