

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: P970526

Luminaire Tested: **NVN-SB6B-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6B-830-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26183.6 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 220.4
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



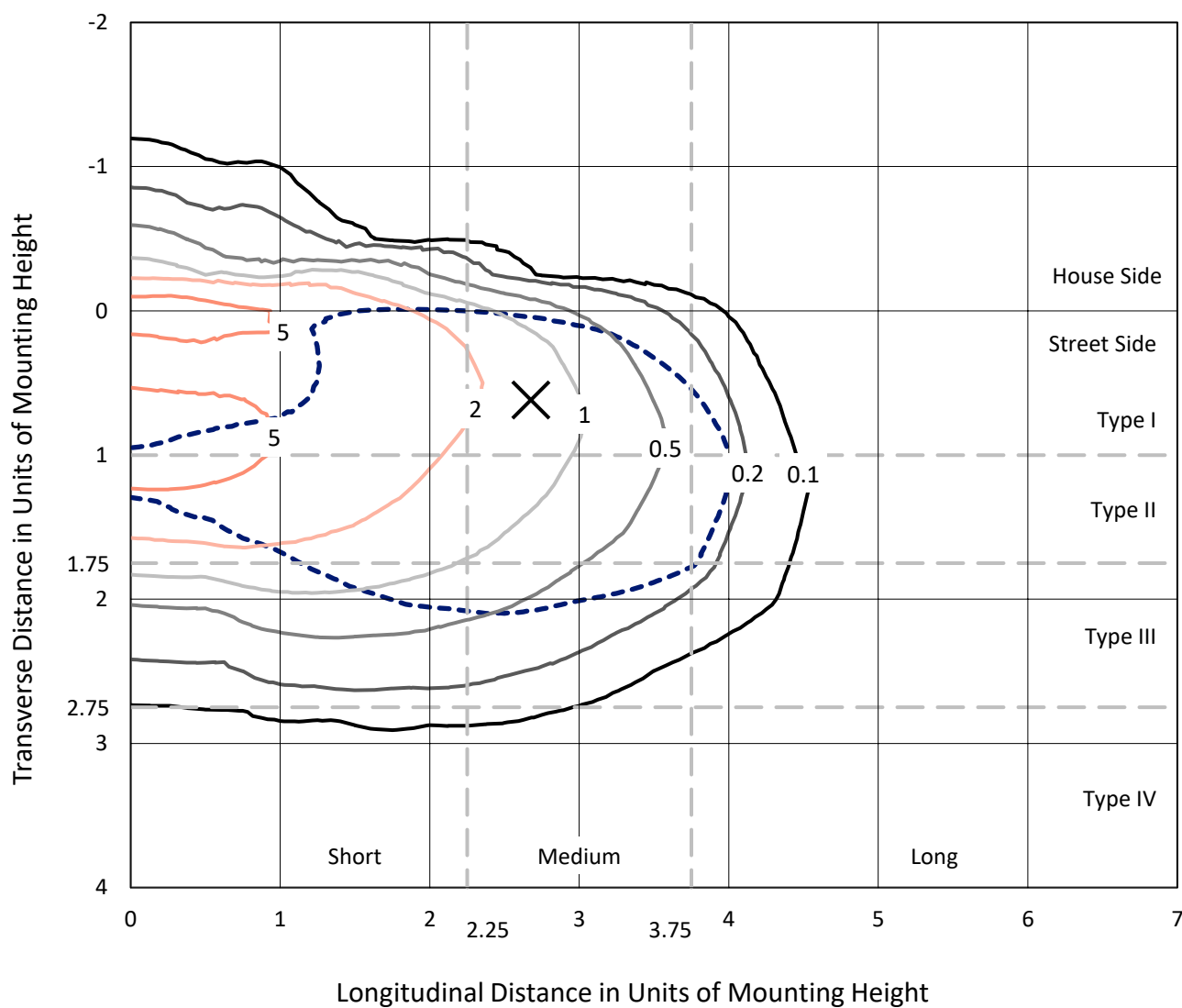
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

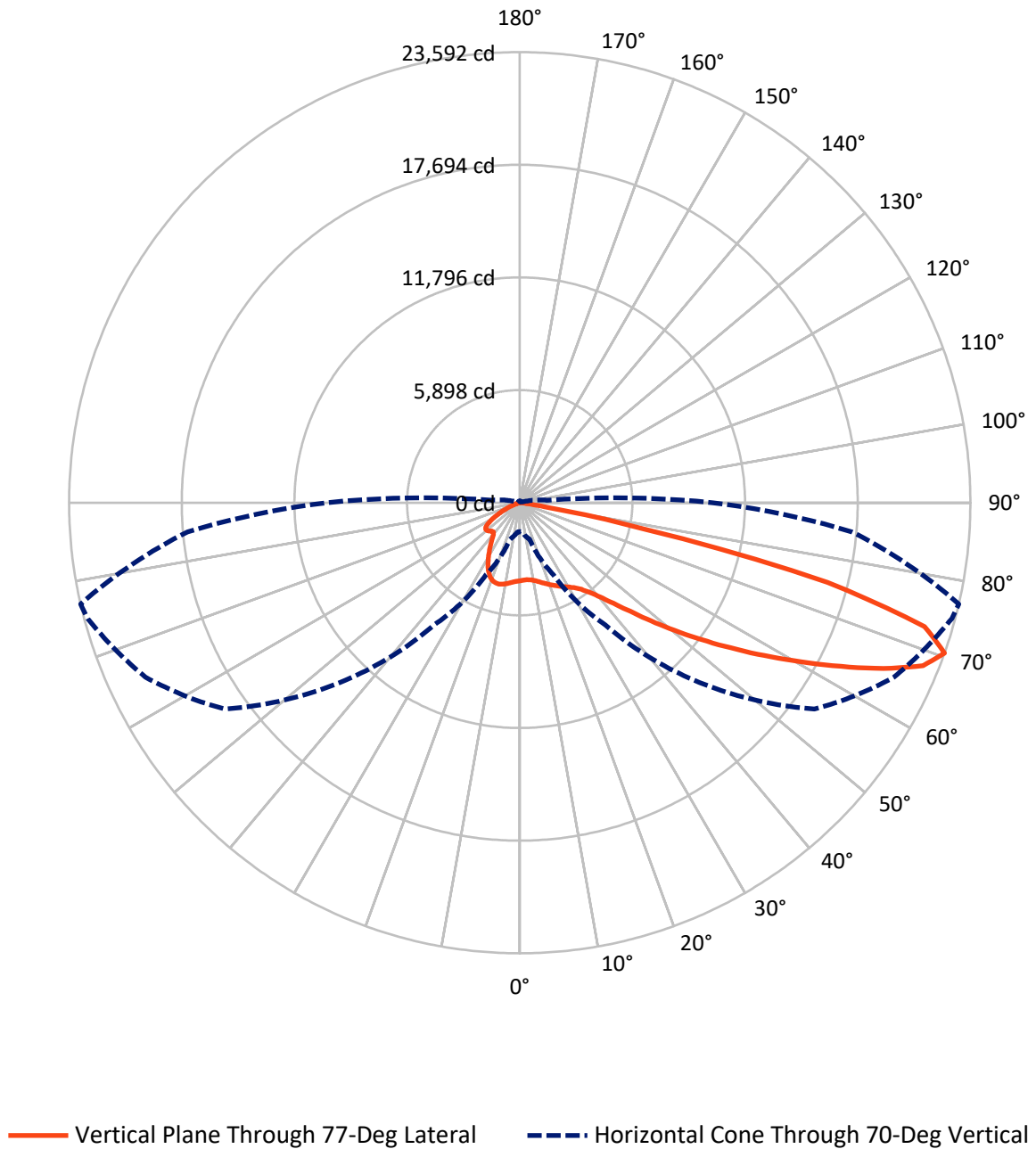


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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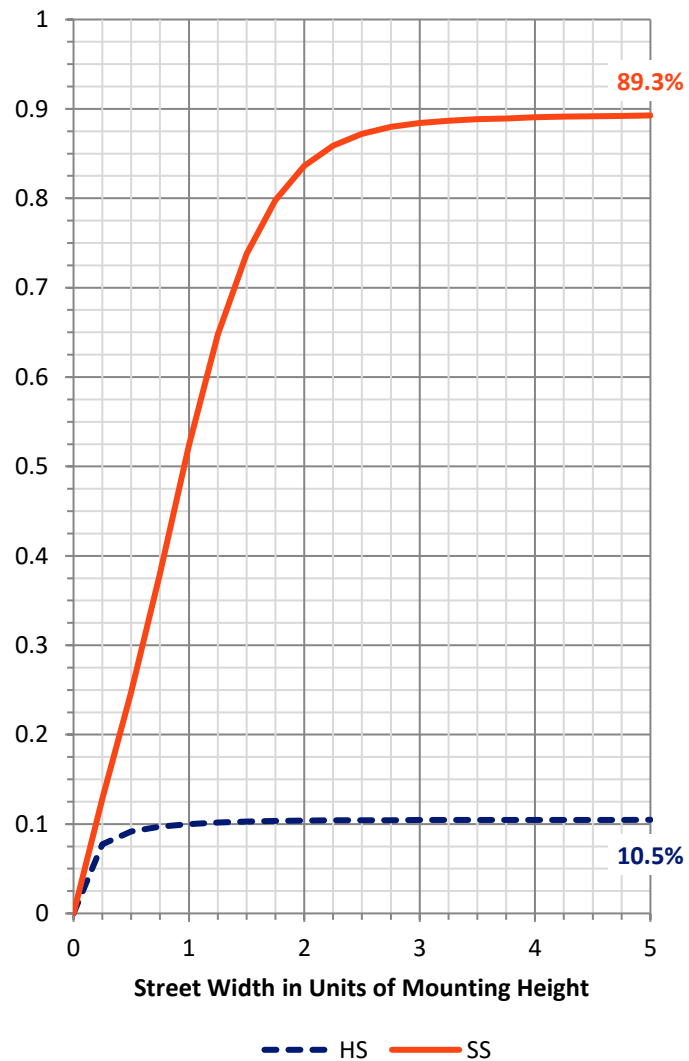
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2760.1	0.0	2760.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	23423.5	0.0	23423.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	26183.6	0.0	26183.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.0	1.3
10°-20°	835.6	3.2
20°-30°	1292.4	4.9
30°-40°	2345.2	9.0
40°-50°	4426.8	16.9
50°-60°	6396.3	24.4
60°-70°	6808.7	26.0
70°-80°	3608.2	13.8
80°-90°	118.5	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°	26183.6	100.0
0°-180°	26183.6	100.0

Coefficient of Utilization



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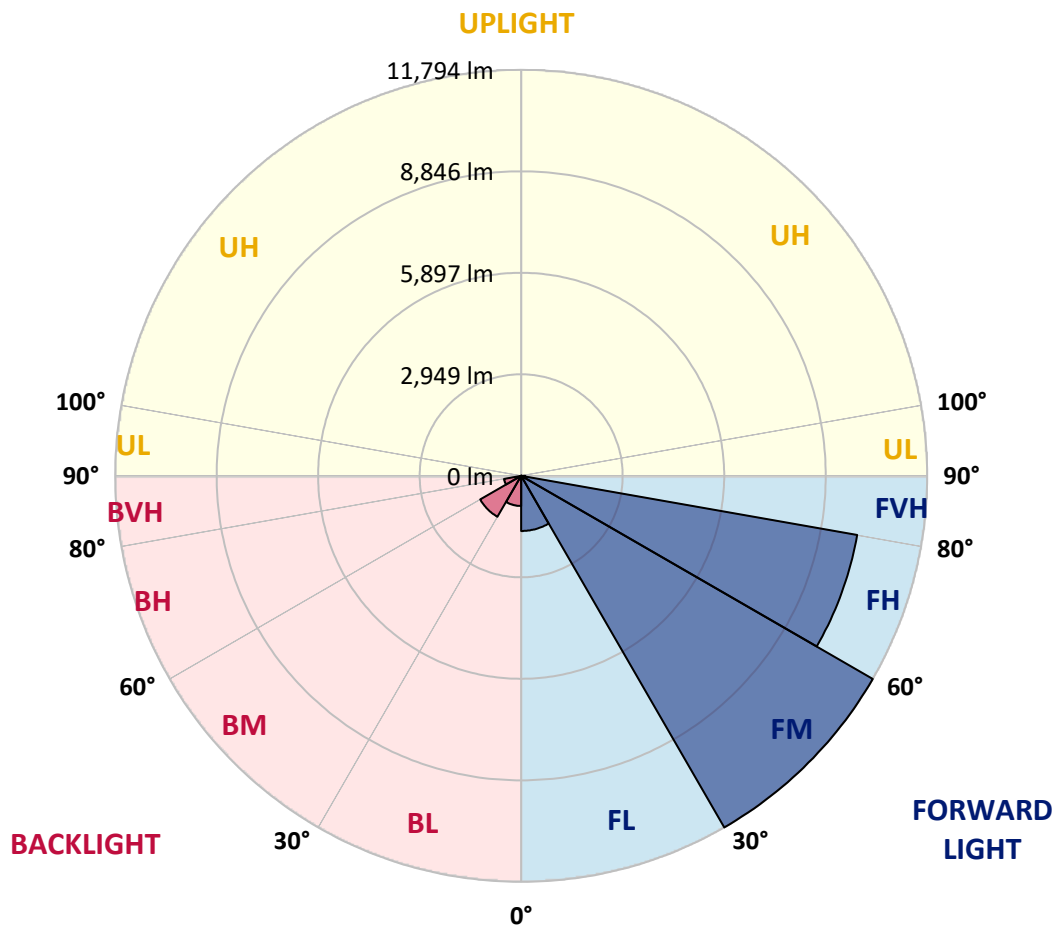
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1603.1	6.1			
FM	(30°-60°)	11794.3	45.0			
FH	(60°-80°)	9910.9	37.9			G4/12000
FVH	(80°-90°)	115.3	0.4			G2/225
BL	(0°-30°)	876.9	3.3	B2/1000		
BM	(30°-60°)	1374.0	5.2	B2/2500		
BH	(60°-80°)	506.0	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4084.2	4084.2	4084.2	4084.2	4084.2	4084.2	4084.2	4084.2	4084.2	4084.2	4084.2
2.5°	3834.5	3869.2	3864.2	3887.4	3895.7	3928.7	3961.8	4006.4	4056.0	4054.4	4087.5
5°	3617.8	3652.6	3660.9	3692.3	3732.0	3783.3	3851.0	3940.3	4033.0	4047.8	4113.9
7.5°	3361.6	3398.0	3419.5	3482.3	3555.0	3660.9	3771.7	3902.3	4056.0	4077.6	4204.9
10°	3105.3	3138.3	3166.4	3255.8	3371.5	3528.6	3708.9	3897.4	4104.0	4135.5	4315.7
12.5°	2946.6	2977.9	3009.4	3087.1	3231.0	3422.8	3667.4	3920.5	4183.3	4228.0	4466.1
15°	2890.3	2918.5	2943.3	3012.7	3146.6	3364.9	3659.2	3968.4	4284.3	4343.7	4648.1
17.5°	2898.6	2913.5	2930.1	2983.0	3113.5	3338.4	3674.1	4051.1	4403.3	4456.2	4829.9
20°	2946.6	2954.9	2956.5	2992.9	3108.6	3335.1	3703.8	4130.4	4515.7	4586.9	5010.1
22.5°	3007.8	3011.0	3007.8	3032.6	3140.0	3360.0	3743.5	4226.4	4641.4	4707.5	5192.0
25°	3293.8	3231.0	3151.6	3103.6	3193.0	3407.9	3803.1	4355.3	4778.7	4843.1	5369.0
27.5°	4181.7	4001.5	3717.1	3398.0	3302.0	3477.3	3885.8	4486.0	4917.5	4975.5	5559.1
30°	5623.6	5387.1	4904.3	4185.1	3652.6	3622.9	3993.2	4616.6	5064.7	5127.6	5762.4
32.5°	7068.8	7010.9	6453.6	5458.2	4441.3	3947.0	4171.9	4793.5	5259.8	5309.4	6036.9
35°	8530.5	8413.1	7956.7	6972.9	5656.7	4606.7	4469.4	5025.1	5516.1	5572.3	6437.1
37.5°	9649.9	9578.8	9296.0	8485.8	7098.5	5625.2	4978.7	5383.8	5888.1	5950.9	6949.7
40°	10638.7	10605.6	10509.7	9975.6	8710.7	6958.0	5770.7	5939.4	6404.1	6478.4	7578.0
42.5°	11415.8	11493.5	11548.2	11399.3	10372.5	8479.2	6835.6	6719.9	7123.3	7199.4	8378.3
45°	12211.1	12237.7	12457.5	12672.5	12022.6	10069.9	8036.1	7634.3	8017.9	8112.2	9337.3
47.5°	12722.1	12828.0	13214.8	13593.6	13410.0	11647.4	9325.8	8714.0	9054.6	9231.6	10412.2
50°	12760.1	12960.2	13492.7	14152.4	14420.3	13148.7	10728.0	9944.2	10306.4	10501.4	11559.7
52.5°	12126.9	12437.8	13262.8	14228.4	14965.9	14420.3	12178.1	11174.4	11639.1	11893.7	12750.2
55°	9297.7	9704.5	12398.0	13815.1	14987.4	15384.2	13590.2	12455.9	13123.9	13411.6	14036.7
57.5°	8100.6	8305.6	9747.4	13097.4	14588.9	15772.8	14866.7	13676.2	14739.4	15096.5	15252.0
60°	6739.7	7009.3	8175.0	11923.5	14048.2	15810.8	15994.4	15250.4	16490.5	16892.3	16366.5
62.5°	4580.2	4872.8	6032.0	9906.2	13309.1	15792.7	16918.8	16870.8	18436.7	18868.2	17310.6
65°	2837.4	3021.0	3784.9	8089.0	12275.7	15812.6	17886.0	18838.5	20490.3	20928.4	18041.4
67.5°	2242.2	2326.4	2725.0	6210.6	10494.9	15366.1	18851.7	20688.7	22423.3	22770.5	18264.7
70°	1506.3	1557.6	1982.6	4163.5	7807.8	13305.8	18833.5	21618.0	23418.7	23592.3	17451.1
72.5°	793.7	833.3	1159.1	1928.0	4715.8	9458.1	15875.4	20506.9	22428.2	22167.0	14916.3
75°	396.9	463.0	780.4	978.9	2014.0	5274.6	9858.2	16168.0	17652.9	16641.0	9570.5
77.5°	300.9	363.8	644.8	644.8	701.1	1775.9	4175.1	8818.2	8133.6	6772.8	2809.3
80°	191.8	248.0	563.9	487.8	292.6	451.4	1088.0	2470.4	1727.9	1314.6	511.0
82.5°	112.4	162.1	469.6	322.5	163.7	167.0	307.6	525.8	448.1	348.9	157.1
85°	44.7	105.8	322.5	127.3	64.5	41.3	92.6	112.4	92.6	69.5	39.7
87.5°	0.0	24.8	56.2	0.0	4.9	3.3	6.7	8.3	8.3	6.7	13.2
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°	4084.2	4084.2	4084.2	4084.2	4084.2	4084.2	4084.2	4084.2	4084.2	4084.2	4084.2
2.5°	4102.4	4105.6	4115.6	4117.2	4094.1	4064.3	4052.7	4047.8	4027.9	4026.3	4029.6
5°	4152.0	4166.8	4152.0	4109.0	4006.4	3862.6	3753.4	3664.2	3583.2	3558.4	3543.4
7.5°	4251.2	4266.0	4221.5	4052.7	3794.9	3508.8	3250.8	3069.0	2905.3	2844.1	2819.3
10°	4393.4	4413.2	4272.7	3932.0	3475.7	3016.0	2579.5	2271.9	2032.2	1934.6	1893.3
12.5°	4571.9	4580.2	4300.8	3748.5	3060.6	2404.2	1785.8	1456.7	1243.4	1164.1	1139.3
15°	4768.7	4757.1	4304.1	3498.8	2495.2	1699.9	1165.7	957.4	871.4	844.9	844.9
17.5°	4975.5	4927.5	4238.0	3138.3	1875.0	1162.5	864.8	815.2	800.3	793.7	792.0
20°	5178.8	5071.3	4117.2	2667.2	1345.9	868.1	785.5	770.5	762.3	759.0	755.6
22.5°	5364.0	5180.5	3910.6	2119.8	977.2	767.2	742.4	729.2	714.3	707.7	706.0
25°	5544.2	5243.3	3619.6	1608.8	782.1	717.6	697.8	673.0	653.1	644.8	641.5
27.5°	5719.5	5283.0	3255.8	1190.5	697.8	671.4	635.0	600.2	585.4	582.0	578.7
30°	5906.4	5296.2	2842.4	888.0	646.6	613.5	560.6	520.9	512.6	514.2	514.2
32.5°	6134.5	5316.1	2425.7	727.5	603.5	544.0	481.1	439.8	433.3	439.8	438.2
35°	6407.4	5355.7	2023.9	669.6	565.5	472.9	405.1	370.4	363.8	368.7	367.1
37.5°	6777.7	5420.2	1648.5	658.0	534.1	413.4	340.6	312.5	312.5	314.2	312.5
40°	7270.5	5592.2	1312.9	649.8	517.5	368.7	287.7	276.1	281.1	284.4	284.4
42.5°	7870.7	5957.6	1086.4	639.9	499.4	348.9	261.3	256.2	264.6	267.8	267.8
45°	8543.7	6420.6	1007.0	623.4	482.8	362.1	249.7	243.0	253.0	254.6	256.2
47.5°	9239.9	6873.6	997.0	605.2	466.3	381.9	246.4	231.4	243.0	244.8	246.4
50°	9944.2	7169.7	1007.0	577.1	439.8	381.9	248.0	220.0	229.8	234.8	236.5
52.5°	10653.5	7305.2	1000.4	515.9	393.5	358.9	248.0	210.0	220.0	223.2	223.2
55°	11341.4	7278.7	899.5	425.0	334.0	317.4	241.4	201.7	208.4	210.0	210.0
57.5°	11885.4	6910.0	712.7	330.7	271.2	264.6	220.0	191.8	196.8	195.2	195.2
60°	12169.8	6099.8	509.3	254.6	213.3	208.4	193.4	178.6	181.8	173.6	172.0
62.5°	12173.1	5028.3	340.6	201.7	170.4	165.3	165.3	160.4	157.1	140.5	135.6
65°	11913.6	3839.4	226.5	160.4	137.2	128.9	138.9	137.2	125.7	102.5	99.2
67.5°	11324.9	2516.7	172.0	125.7	105.8	100.9	110.8	115.7	107.5	86.0	84.4
70°	10114.5	1465.0	142.2	97.6	79.3	74.4	89.3	99.2	89.3	69.5	66.1
72.5°	8401.5	790.4	115.7	72.8	54.5	49.6	71.1	81.0	71.1	51.2	49.6
75°	5451.7	423.3	89.3	48.0	28.1	31.5	52.9	59.6	49.6	33.1	29.7
77.5°	1830.4	186.9	56.2	23.2	13.2	13.2	31.5	36.4	23.2	11.6	9.9
80°	408.5	77.7	23.2	9.9	4.9	4.9	6.7	6.7	3.3	0.0	0.0
82.5°	134.0	31.5	9.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	51.2	11.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.9	1.6	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)