

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: P963148

Luminaire Tested: **NVN-SB2D-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963148
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-SB2D-830-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 900mA 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: 15604.6 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 147.6
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

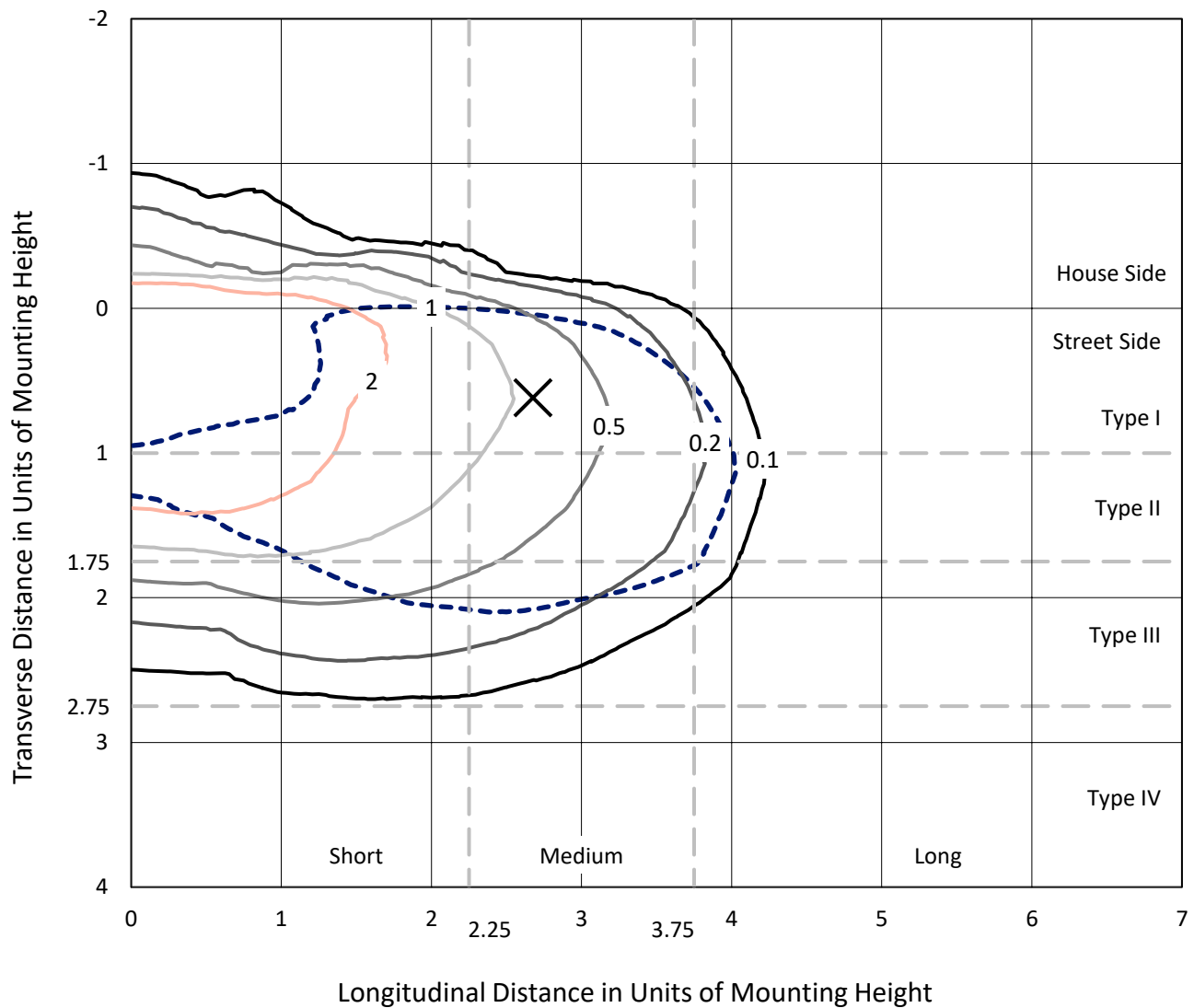


REPORT NUMBER: P963148

CATALOG NUMBER: NVN-SB2D-830-U-T3R-HSS

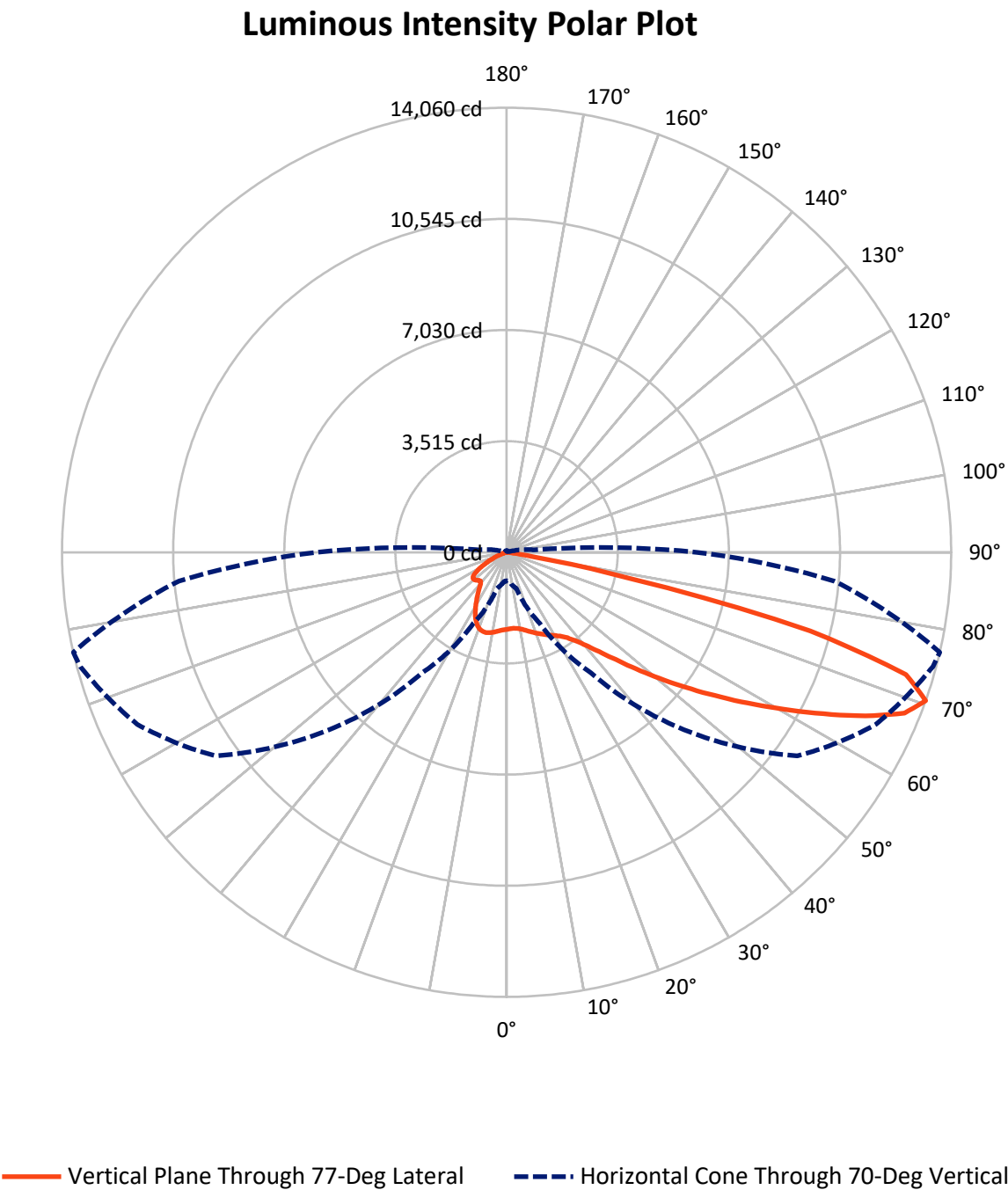
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type III - Medium - N/A

REPORT NUMBER: P963148
CATALOG NUMBER: NVN-SB2D-830-U-T3R-HSS



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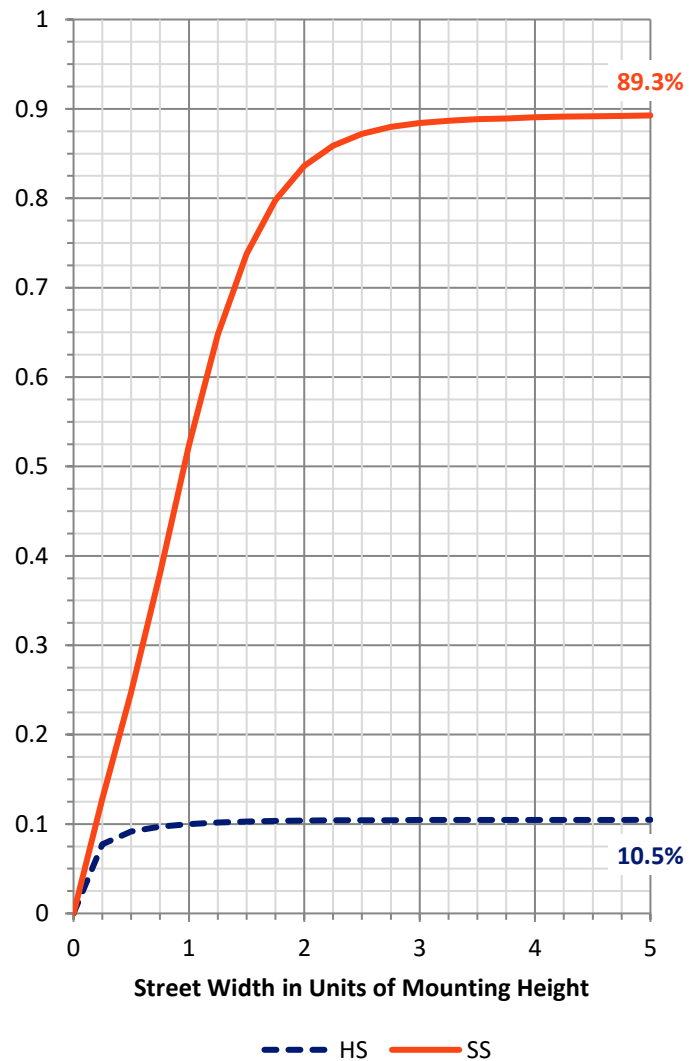
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1644.9	0.0	1644.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	13959.6	0.0	13959.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	15604.6	0.0	15604.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	1.3
10°-20°	498.0	3.2
20°-30°	770.2	4.9
30°-40°	1397.6	9.0
40°-50°	2638.2	16.9
50°-60°	3812.0	24.4
60°-70°	4057.8	26.0
70°-80°	2150.3	13.8
80°-90°	70.6	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°	15604.6	100.0
0°-180°	15604.6	100.0

Coefficient of Utilization



REPORT NUMBER: P963148

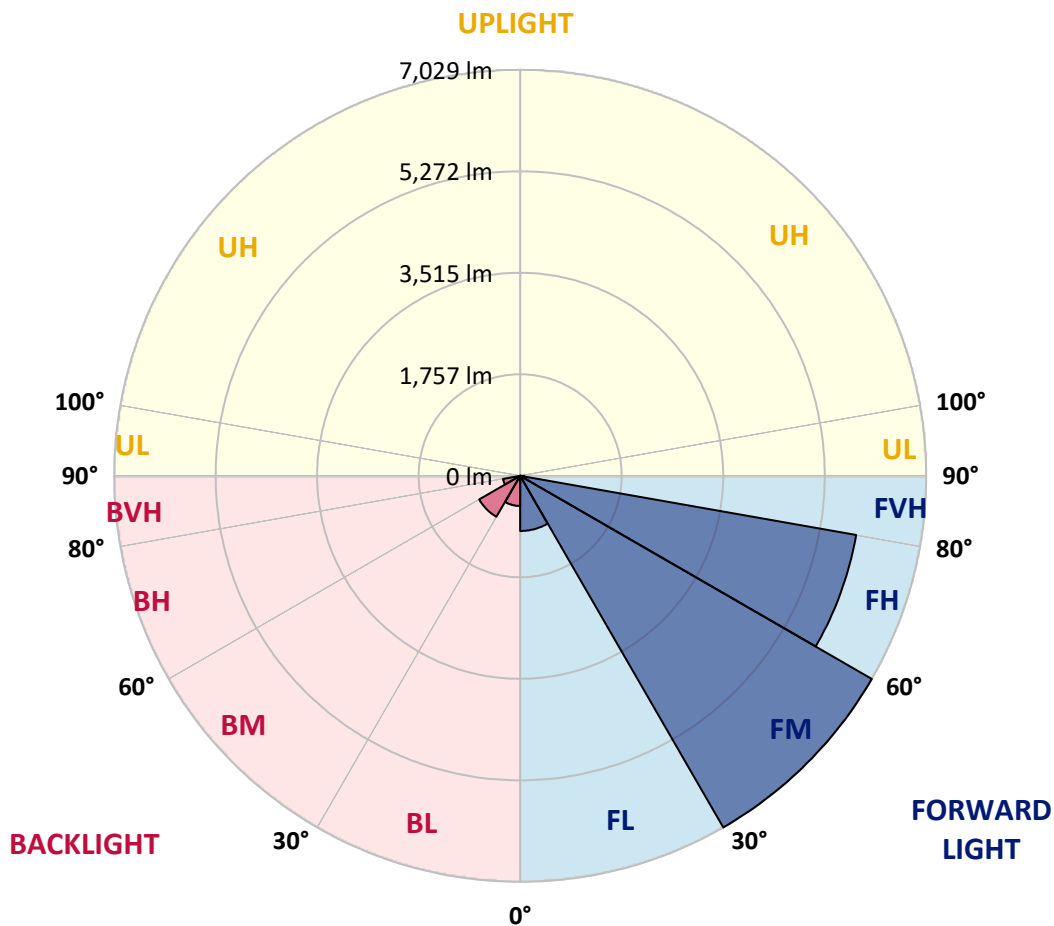
CATALOG NUMBER: NVN-SB2D-830-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	955.4	6.1			
FM	(30°-60°)	7029.0	45.0			
FH	(60°-80°)	5906.6	37.9			G3/7500
FVH	(80°-90°)	68.7	0.4			G1/100
BL	(0°-30°)	522.6	3.3	B2/1000		
BM	(30°-60°)	818.9	5.2	B1/1000		
BH	(60°-80°)	301.6	1.9	B1/500		G1/500
BVH	(80°-90°)	1.9	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-G3

Type III Medium



REPORT NUMBER: P963148

CATALOG NUMBER: NVN-SB2D-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1
2.5°	2285.2	2305.9	2303.0	2316.8	2321.7	2341.4	2361.1	2387.7	2417.3	2416.3	2436.0
5°	2156.2	2176.8	2181.7	2200.5	2224.1	2254.7	2295.1	2348.3	2403.5	2412.3	2451.8
7.5°	2003.4	2025.1	2037.9	2075.3	2118.7	2181.7	2247.8	2325.6	2417.3	2430.1	2506.0
10°	1850.6	1870.3	1887.1	1940.3	2009.3	2102.9	2210.3	2322.6	2445.9	2464.6	2572.0
12.5°	1756.0	1774.8	1793.5	1839.8	1925.6	2039.9	2185.7	2336.5	2493.2	2519.8	2661.7
15°	1722.5	1739.3	1754.1	1795.5	1875.3	2005.4	2180.8	2365.1	2553.3	2588.7	2770.1
17.5°	1727.4	1736.4	1746.2	1777.8	1855.6	1989.6	2189.6	2414.3	2624.2	2655.8	2878.5
20°	1756.0	1761.0	1762.0	1783.6	1852.6	1987.7	2207.3	2461.6	2691.2	2733.6	2985.9
22.5°	1792.5	1794.5	1792.5	1807.3	1871.3	2002.4	2231.0	2518.7	2766.2	2805.5	3094.3
25°	1963.0	1925.6	1878.2	1849.7	1902.9	2031.0	2266.5	2595.6	2848.0	2886.4	3199.7
27.5°	2492.2	2384.8	2215.2	2025.1	1967.9	2072.3	2315.8	2673.5	2930.7	2965.2	3313.0
30°	3351.4	3210.6	2922.8	2494.1	2176.8	2159.1	2379.8	2751.3	3018.4	3055.8	3434.3
32.5°	4212.8	4178.3	3846.2	3252.9	2646.9	2352.3	2486.2	2856.8	3134.7	3164.3	3597.9
35°	5083.9	5013.9	4742.0	4155.6	3371.2	2745.5	2663.7	2994.7	3287.4	3320.9	3836.3
37.5°	5751.1	5708.6	5540.1	5057.2	4230.5	3352.5	2967.2	3208.6	3509.2	3546.6	4141.8
40°	6340.3	6320.6	6263.5	5945.2	5191.3	4146.7	3439.2	3539.7	3816.6	3861.0	4516.3
42.5°	6803.4	6849.8	6882.3	6793.6	6181.7	5053.4	4073.8	4004.8	4245.2	4290.6	4993.2
45°	7277.5	7293.3	7424.3	7552.4	7165.2	6001.4	4789.2	4549.8	4778.4	4834.6	5564.8
47.5°	7581.9	7645.1	7875.6	8101.3	7991.9	6941.4	5557.9	5193.3	5396.3	5501.7	6205.3
50°	7604.7	7723.9	8041.2	8434.4	8594.0	7836.2	6393.5	5926.4	6142.2	6258.5	6889.2
52.5°	7227.2	7412.5	7904.2	8479.7	8919.2	8594.0	7257.7	6659.6	6936.5	7088.3	7598.7
55°	5541.2	5783.6	7388.8	8233.3	8932.1	9168.5	8099.3	7423.4	7821.5	7992.9	8365.4
57.5°	4827.6	4949.8	5809.2	7805.7	8694.6	9400.1	8860.1	8150.6	8784.2	8997.0	9089.7
60°	4016.7	4177.3	4872.0	7106.0	8372.3	9422.7	9532.2	9088.7	9827.8	10067.2	9753.9
62.5°	2729.7	2904.1	3594.9	5903.8	7931.8	9412.0	10083.0	10054.4	10987.7	11244.9	10316.5
65°	1691.0	1800.4	2255.7	4820.8	7315.9	9423.7	10659.5	11227.1	12211.5	12472.7	10752.1
67.5°	1336.3	1386.5	1624.0	3701.3	6254.5	9157.7	11235.0	12329.8	13363.5	13570.5	10885.2
70°	897.7	928.2	1181.5	2481.3	4653.3	7929.8	11224.2	12883.6	13956.8	14060.2	10400.4
72.5°	473.0	496.6	690.7	1149.0	2810.4	5636.7	9461.2	12221.4	13366.5	13210.8	8889.6
75°	236.5	275.9	465.1	583.4	1200.3	3143.6	5875.2	9635.6	10520.6	9917.5	5703.7
77.5°	179.4	216.8	384.3	384.3	417.8	1058.3	2488.2	5255.4	4847.3	4036.3	1674.2
80°	114.3	147.8	336.0	290.7	174.5	269.1	648.4	1472.2	1029.8	783.4	304.5
82.5°	67.0	96.6	279.8	192.2	97.6	99.5	183.3	313.3	267.0	208.0	93.6
85°	26.6	63.0	192.2	75.8	38.4	24.6	55.1	67.0	55.1	41.4	23.7
87.5°	0.0	14.8	33.5	0.0	3.0	1.9	3.9	4.9	4.9	3.9	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P963148

CATALOG NUMBER: NVN-SB2D-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1
2.5°	2444.8	2446.9	2452.7	2453.7	2439.9	2422.2	2415.3	2412.3	2400.5	2399.5	2401.5
5°	2474.5	2483.3	2474.5	2448.8	2387.7	2301.9	2237.0	2183.8	2135.5	2120.6	2111.8
7.5°	2533.6	2542.4	2515.9	2415.3	2261.6	2091.1	1937.4	1829.0	1731.4	1694.9	1680.2
10°	2618.4	2630.1	2546.4	2343.4	2071.4	1797.4	1537.3	1354.0	1211.1	1152.9	1128.3
12.5°	2724.8	2729.7	2563.1	2234.0	1824.1	1432.8	1064.3	868.2	741.1	693.7	679.0
15°	2842.0	2835.1	2565.1	2085.2	1487.1	1013.0	694.7	570.6	519.4	503.6	503.6
17.5°	2965.2	2936.6	2525.7	1870.3	1117.5	692.8	515.4	485.8	476.9	473.0	472.0
20°	3086.4	3022.3	2453.7	1589.5	802.2	517.3	468.1	459.2	454.3	452.3	450.4
22.5°	3196.8	3087.4	2330.5	1263.3	582.4	457.3	442.5	434.6	425.7	421.8	420.8
25°	3304.2	3124.8	2157.1	958.8	466.1	427.6	415.8	401.1	389.3	384.3	382.3
27.5°	3408.6	3148.5	1940.3	709.5	415.8	400.1	378.4	357.7	348.8	346.9	344.9
30°	3520.0	3156.4	1694.0	529.2	385.3	365.6	334.0	310.4	305.4	306.5	306.5
32.5°	3656.0	3168.2	1445.7	433.6	359.7	324.2	286.8	262.1	258.2	262.1	261.2
35°	3818.5	3191.8	1206.2	399.1	337.0	281.9	241.4	220.8	216.8	219.8	218.7
37.5°	4039.3	3230.3	982.5	392.2	318.3	246.4	203.0	186.2	186.2	187.3	186.2
40°	4333.0	3332.8	782.5	387.2	308.4	219.8	171.5	164.6	167.5	169.5	169.5
42.5°	4690.7	3550.5	647.4	381.4	297.6	208.0	155.7	152.7	157.6	159.6	159.6
45°	5091.8	3826.4	600.1	371.5	287.7	215.8	148.8	144.8	150.8	151.8	152.7
47.5°	5506.6	4096.5	594.2	360.7	277.9	227.7	146.8	138.0	144.8	145.9	146.8
50°	5926.4	4272.8	600.1	343.9	262.1	227.7	147.8	131.1	136.9	139.9	140.9
52.5°	6349.2	4353.7	596.1	307.5	234.5	213.8	147.8	125.2	131.1	133.0	133.0
55°	6759.2	4337.9	536.1	253.3	199.1	189.2	143.9	120.2	124.1	125.2	125.2
57.5°	7083.4	4118.1	424.8	197.1	161.6	157.6	131.1	114.3	117.3	116.2	116.2
60°	7252.8	3635.3	303.5	151.8	127.1	124.1	115.3	106.4	108.4	103.4	102.5
62.5°	7254.8	2996.7	203.0	120.2	101.5	98.5	98.5	95.6	93.6	83.7	80.8
65°	7100.1	2288.2	135.0	95.6	81.8	76.9	82.8	81.8	74.9	61.1	59.1
67.5°	6749.3	1499.9	102.5	74.9	63.0	60.1	66.0	69.0	64.1	51.2	50.2
70°	6027.9	873.1	84.8	58.1	47.3	44.4	53.2	59.1	53.2	41.4	39.5
72.5°	5007.0	471.1	69.0	43.4	32.5	29.5	42.3	48.3	42.3	30.5	29.5
75°	3249.0	252.3	53.2	28.6	16.7	18.8	31.6	35.5	29.5	19.7	17.7
77.5°	1090.9	111.3	33.5	13.8	7.9	7.9	18.8	21.7	13.8	6.9	5.9
80°	243.4	46.3	13.8	5.9	3.0	3.0	3.9	3.9	1.9	0.0	0.0
82.5°	79.8	18.8	5.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.5	6.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.8	1.0	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)