

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: P971016

Luminaire Tested: **NVN-SB6C-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971016
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-SB6C-827-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA 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: 34271.9 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

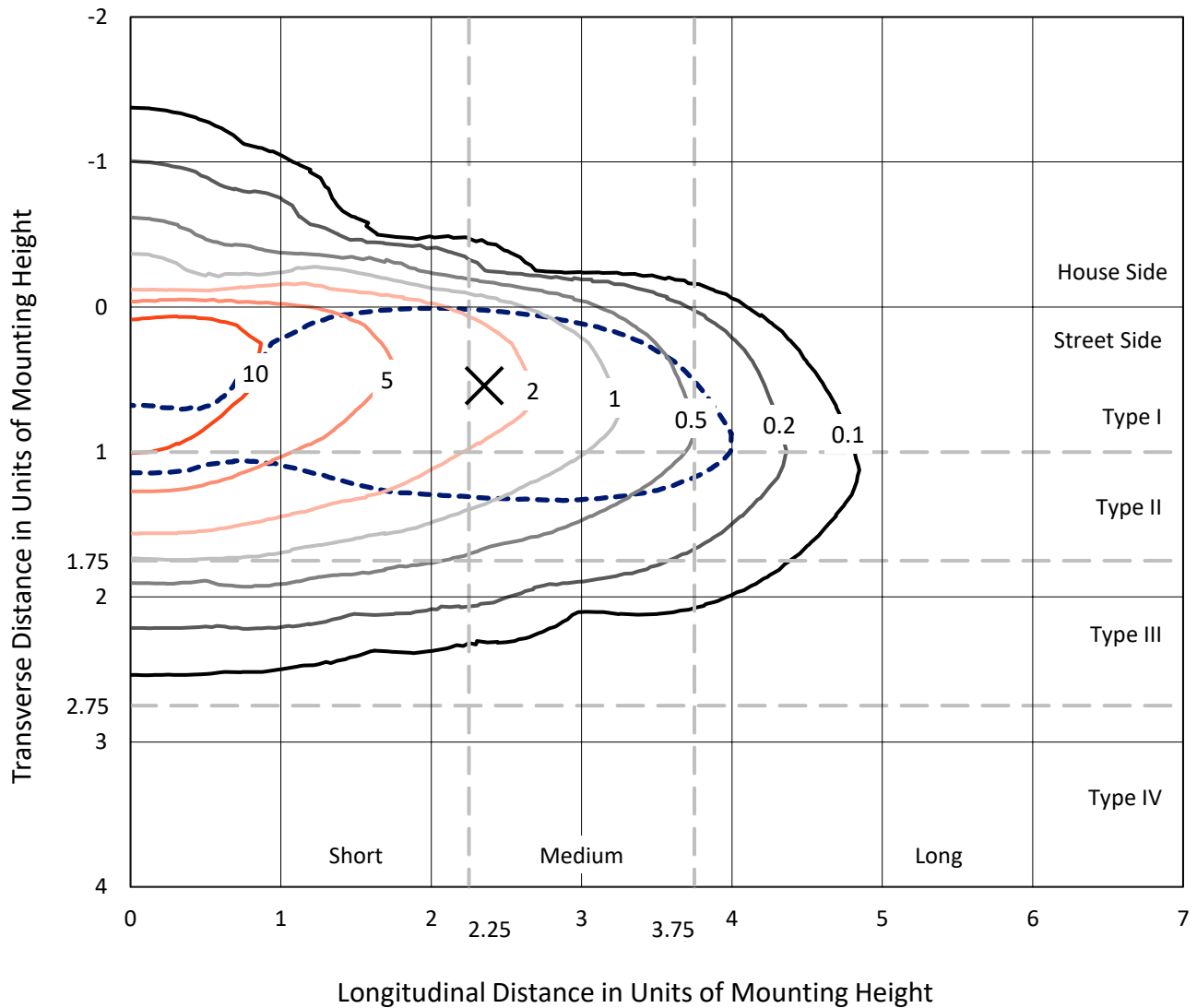
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P971016
 CATALOG NUMBER: NVN-SB6C-827-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

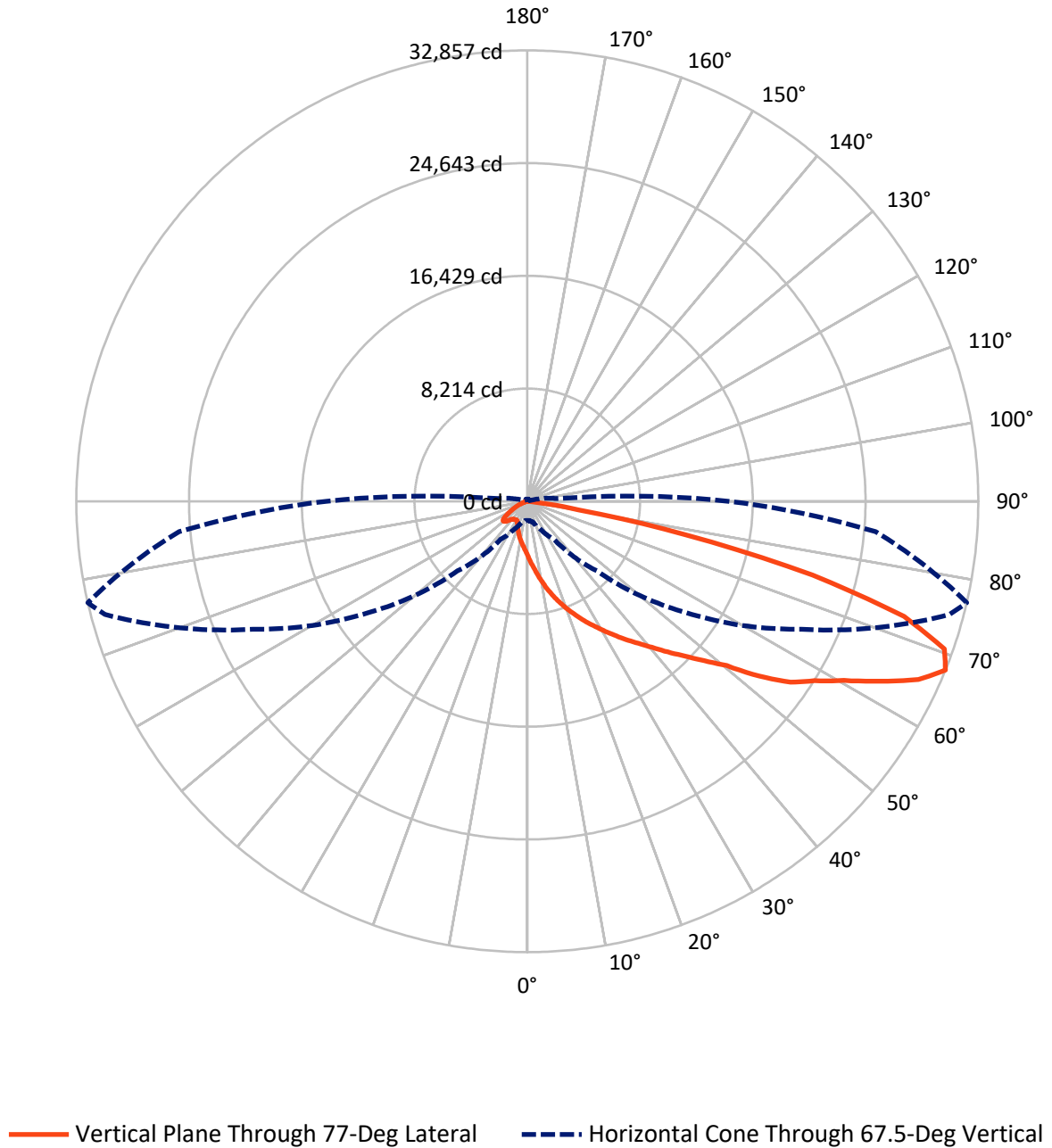
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P971016
CATALOG NUMBER: NVN-SB6C-827-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P971016
 CATALOG NUMBER: NVN-SB6C-827-U-T2R-HSS

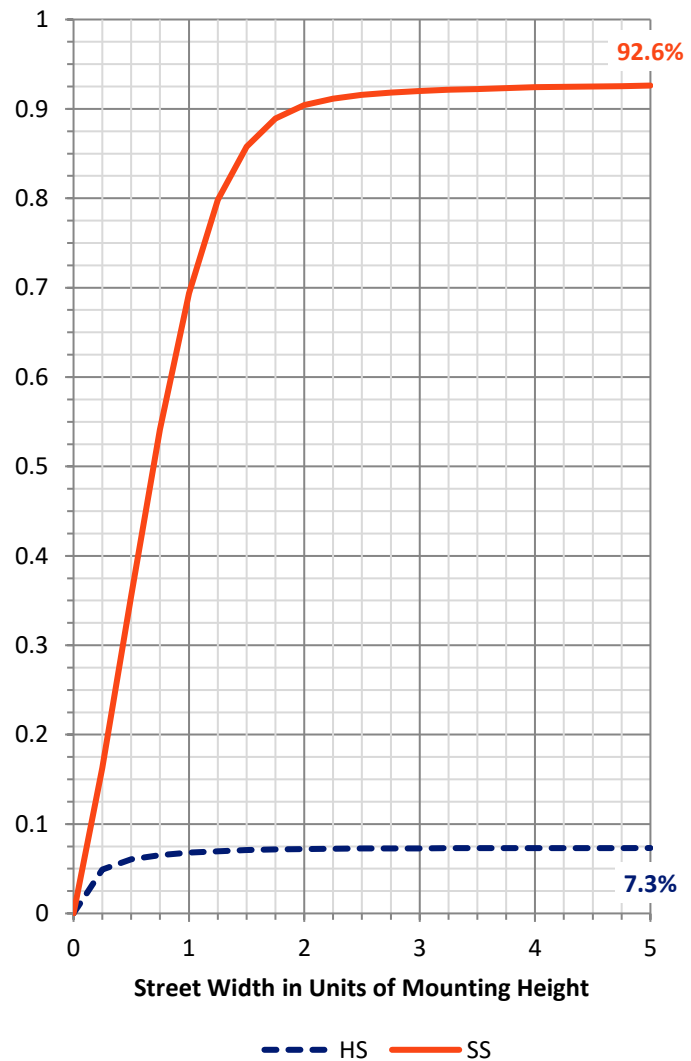
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2521.4	0.0	2521.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	31750.5	0.0	31750.5
	% Fixture	92.6	0.0	92.6
Total	Lumens	34271.9	0.0	34271.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.4	1.2
10°-20°	1412.6	4.1
20°-30°	2725.9	8.0
30°-40°	4732.2	13.8
40°-50°	6871.0	20.0
50°-60°	7890.4	23.0
60°-70°	6850.4	20.0
70°-80°	3226.6	9.4
80°-90°	159.6	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°	34271.9	100.0
0°-180°	34271.9	100.0

Coefficient of Utilization



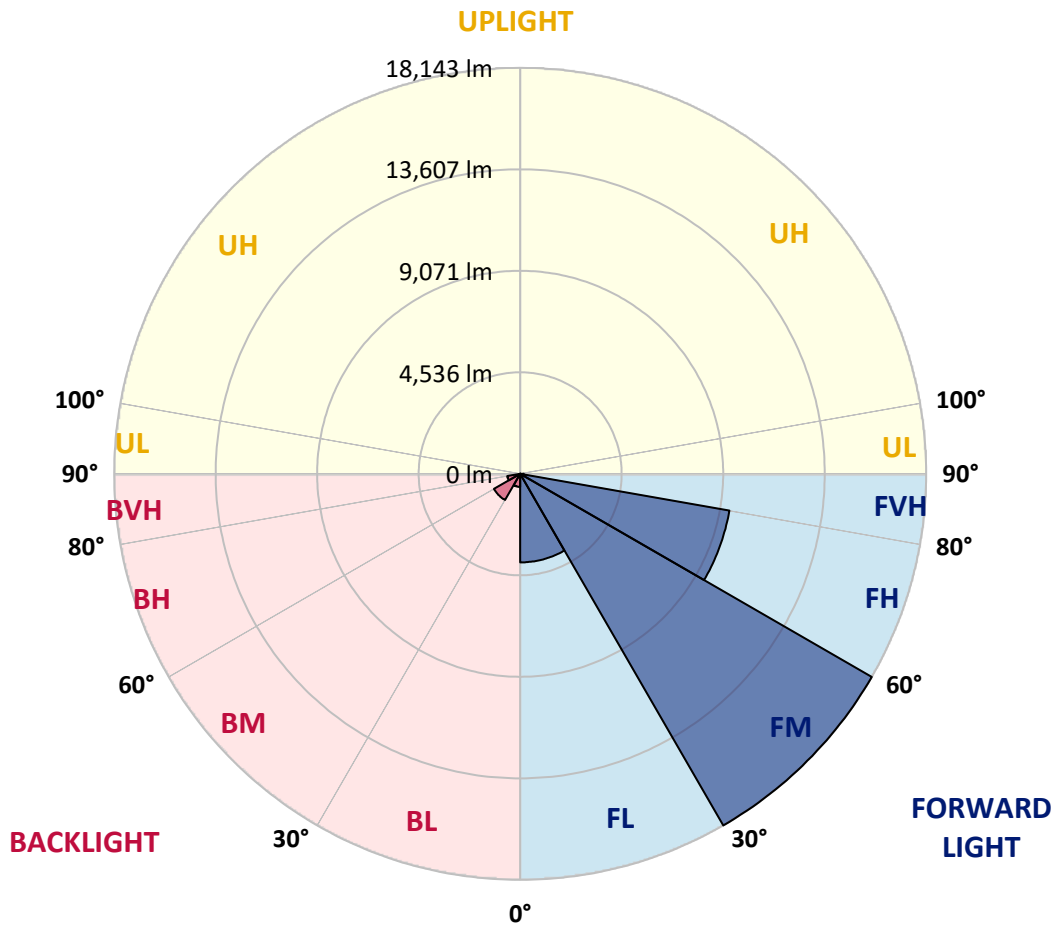
REPORT NUMBER: P971016
 CATALOG NUMBER: NVN-SB6C-827-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3958.0	11.5			
FM (30°-60°)	18142.6	52.9			
FH (60°-80°)	9493.2	27.7			G4/12000
FVH (80°-90°)	156.6	0.5			G2/225
BL (0°-30°)	583.7	1.7	B2/1000		
BM (30°-60°)	1351.0	3.9	B2/2500		
BH (60°-80°)	583.7	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.9	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-G4

Type II Medium



REPORT NUMBER: P971016
 CATALOG NUMBER: NVN-SB6C-827-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3952.1	3952.1	3952.1	3952.1	3952.1	3952.1	3952.1	3952.1	3952.1	3952.1	3952.1
2.5°	5471.6	5505.7	5456.7	5363.0	5222.6	5131.0	4907.6	4697.0	4462.8	4388.3	4154.2
5°	6669.8	6699.5	6644.3	6542.1	6354.8	6176.0	5882.4	5441.8	4984.3	4837.4	4422.4
7.5°	7557.2	7574.2	7552.9	7459.3	7280.6	7078.3	6750.6	6229.2	5550.4	5388.6	4752.2
10°	8195.7	8251.0	8244.6	8208.4	8089.3	7925.4	7576.4	6982.6	6184.5	5976.0	5124.7
12.5°	8619.2	8680.9	8717.1	8798.0	8791.5	8687.3	8380.8	7753.0	6816.6	6571.9	5543.9
15°	8742.6	8808.5	8946.9	9134.2	9300.2	9353.4	9138.5	8508.5	7512.5	7199.7	5973.8
17.5°	8672.4	8774.5	8940.6	9236.4	9600.3	9840.7	9817.3	9238.5	8144.5	7787.0	6395.2
20°	8827.7	8925.6	9055.5	9304.4	9728.0	10164.2	10338.8	9936.6	8772.4	8397.8	6837.9
22.5°	9687.6	9670.5	9683.3	9723.7	9976.9	10409.0	10768.6	10570.7	9393.8	9010.8	7306.1
25°	11049.6	10972.9	10843.2	10623.9	10560.1	10768.6	11143.2	11132.5	10049.3	9638.6	7785.0
27.5°	12611.7	12598.9	12294.6	11766.8	11468.8	11388.0	11566.7	11679.6	10698.4	10260.0	8265.9
30°	14107.8	14141.8	13731.1	13143.7	12596.7	12279.7	12118.0	12198.8	11358.1	10930.4	8761.8
32.5°	15410.3	15446.4	14999.5	14312.1	13635.4	13252.2	12911.7	12711.7	12077.5	11611.4	9306.6
35°	16510.5	16546.7	16033.8	15274.0	14552.5	14205.7	13820.5	13273.5	12801.1	12366.9	9913.1
37.5°	17493.8	17483.1	16795.6	16029.6	15320.9	15046.3	14844.2	13965.2	13546.0	13126.7	10585.6
40°	18074.7	18119.4	17532.0	16687.2	15999.7	15799.7	15786.9	14822.8	14405.8	13999.2	11321.9
42.5°	18245.0	18323.7	17898.1	17204.3	16580.7	16363.7	16697.8	15750.8	15406.0	15010.1	12154.1
45°	17938.5	18015.2	17821.5	17340.5	16976.6	16836.1	17481.0	16712.7	16474.3	16082.8	13092.6
47.5°	17044.7	17140.5	17187.3	17085.1	17080.9	17223.5	18183.3	17725.7	17742.8	17342.7	14180.2
50°	15314.5	15476.2	15906.2	16267.9	16827.6	17530.0	18866.5	18823.8	19172.9	18828.1	15597.5
52.5°	12169.0	12398.8	13880.0	14869.7	16127.5	17472.5	19617.7	20586.0	21682.0	21177.6	17595.9
55°	9779.0	9779.0	10983.6	12835.2	14761.1	17093.6	19945.4	21731.0	23391.0	23271.8	19002.7
57.5°	7972.2	8068.0	8836.2	10472.8	12784.0	16191.3	20147.6	22450.3	24767.9	24680.7	20377.4
60°	4920.4	5126.8	6578.2	8193.5	10534.5	14584.5	20019.9	23178.1	26438.5	26508.8	22033.2
62.5°	2770.9	2847.6	3494.5	5895.1	8191.4	12424.4	19043.1	23584.6	28575.3	28873.2	23740.0
65°	1913.3	1951.6	2200.6	3669.0	5678.0	9891.9	17134.1	23331.4	30716.2	31318.5	25187.1
67.5°	1389.7	1408.9	1564.3	2241.0	3369.0	7172.0	14141.8	22054.4	31850.5	32857.2	25463.9
70°	1068.4	1081.2	1193.9	1472.7	1989.8	4426.7	10270.7	19515.5	31029.0	32231.4	24046.5
72.5°	868.3	881.1	968.3	1089.7	1319.5	2617.6	6224.9	15848.7	27402.7	28700.8	20471.1
75°	732.1	749.2	827.9	906.6	1034.3	1681.3	2919.9	11036.8	20607.3	21458.6	14235.5
77.5°	406.5	374.5	672.5	751.2	872.6	1064.1	1366.3	6495.2	11541.2	11777.5	6316.5
80°	253.3	261.8	534.1	604.4	670.3	536.3	625.7	2500.6	4001.0	3800.9	1223.7
82.5°	14.9	34.0	410.7	436.2	459.7	229.8	236.3	849.1	964.1	885.3	217.1
85°	0.0	0.0	187.3	151.1	159.6	66.0	68.1	197.9	129.9	140.4	42.5
87.5°	0.0	0.0	0.0	4.3	0.0	6.4	12.8	17.0	6.4	8.5	14.9
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: P971016
 CATALOG NUMBER: NVN-SB6C-827-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3952.1	3952.1	3952.1	3952.1	3952.1	3952.1	3952.1	3952.1	3952.1	3952.1	3952.1
2.5°	4005.3	3856.3	3554.1	3258.3	3017.8	2794.4	2634.7	2483.6	2407.0	2402.7	2398.5
5°	4126.5	3813.7	3209.3	2675.1	2245.3	1900.5	1677.0	1517.4	1436.5	1408.9	1404.6
7.5°	4296.8	3826.5	2907.1	2164.4	1657.8	1362.0	1234.3	1183.3	1166.2	1147.1	1142.9
10°	4511.7	3856.3	2636.8	1743.0	1306.7	1157.7	1106.7	1085.4	1072.6	1059.8	1055.5
12.5°	4752.2	3883.9	2368.7	1447.2	1149.2	1072.6	1036.5	1010.9	993.8	979.0	974.7
15°	4986.3	3900.9	2089.9	1240.8	1068.4	1006.7	968.3	940.6	917.3	900.3	898.1
17.5°	5218.4	3924.4	1828.1	1117.2	1002.3	940.6	902.3	868.3	849.1	830.0	827.9
20°	5475.9	3920.1	1581.3	1030.0	936.4	874.7	834.2	802.4	783.2	761.9	759.7
22.5°	5714.2	3898.9	1364.2	955.6	868.3	808.7	764.0	732.1	713.0	695.9	693.8
25°	5988.8	3881.8	1183.3	887.4	804.4	744.9	695.9	666.1	644.8	630.0	627.8
27.5°	6252.6	3856.3	1051.3	825.7	742.7	685.3	638.5	604.4	585.3	574.6	574.6
30°	6512.2	3849.9	1002.3	766.2	687.4	630.0	583.1	551.2	536.3	532.1	529.9
32.5°	6825.1	3866.9	1023.7	744.9	636.3	578.8	534.1	510.8	495.9	495.9	495.9
35°	7159.2	3862.7	1055.5	764.0	602.3	527.8	493.7	478.9	463.9	463.9	463.9
37.5°	7578.5	3869.1	1081.2	795.9	589.5	485.2	466.1	446.9	438.4	438.4	438.4
40°	8204.2	4079.7	1068.4	823.6	585.3	455.4	417.2	410.7	404.4	404.4	404.4
42.5°	8970.3	4537.3	1085.4	825.7	583.1	434.2	383.0	395.9	381.0	378.8	376.7
45°	9808.8	5037.5	1193.9	781.0	581.0	423.5	366.0	381.0	357.5	357.5	357.5
47.5°	10640.9	5533.3	1304.6	717.2	574.6	421.4	351.2	342.7	336.3	338.4	338.4
50°	11788.0	5937.6	1347.2	630.0	559.8	417.2	323.5	325.6	321.3	325.6	325.6
52.5°	13037.3	6022.8	1296.1	532.1	517.1	404.4	304.3	312.8	310.7	315.0	315.0
55°	13816.2	5931.3	1070.5	442.7	451.2	353.3	285.2	302.2	302.2	302.2	302.2
57.5°	14620.7	5541.8	759.7	359.7	374.5	289.5	268.1	291.6	289.5	287.3	287.3
60°	15199.5	4911.9	500.1	295.8	298.0	238.3	249.0	274.5	272.4	261.8	261.8
62.5°	15631.6	4215.9	321.3	251.1	227.8	214.9	227.8	249.0	240.5	217.1	212.8
65°	15582.7	3251.9	246.8	214.9	187.3	187.3	197.9	217.1	191.6	153.2	148.9
67.5°	14673.9	2200.6	204.3	180.9	157.4	155.4	163.9	180.9	163.9	129.9	125.6
70°	13050.1	1438.7	163.9	140.4	125.6	114.9	131.9	155.4	138.4	104.2	100.0
72.5°	10592.0	876.8	123.4	102.2	91.5	74.5	104.2	127.7	110.7	76.6	72.4
75°	6852.7	446.9	85.2	66.0	49.0	44.7	76.6	95.7	76.6	46.8	40.4
77.5°	2622.0	187.3	46.8	29.8	25.5	21.3	42.5	57.5	31.9	10.7	8.5
80°	504.4	78.7	23.4	14.9	12.8	8.5	6.4	4.3	0.0	0.0	0.0
82.5°	87.2	25.5	8.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.7	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)