

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: P964181

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3B-830-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13267.6 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
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

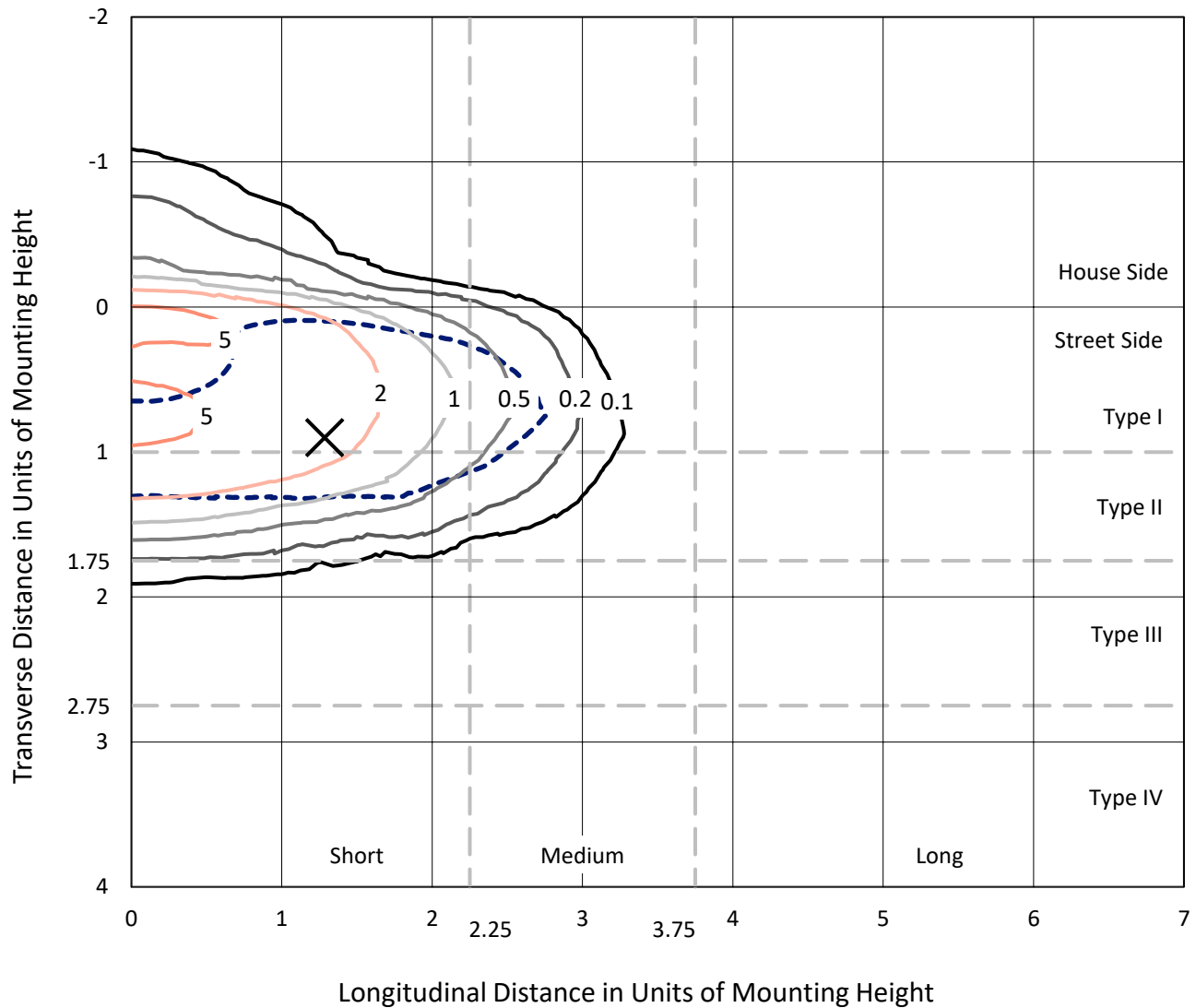


REPORT NUMBER: P964181

CATALOG NUMBER: NVN-SB3B-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

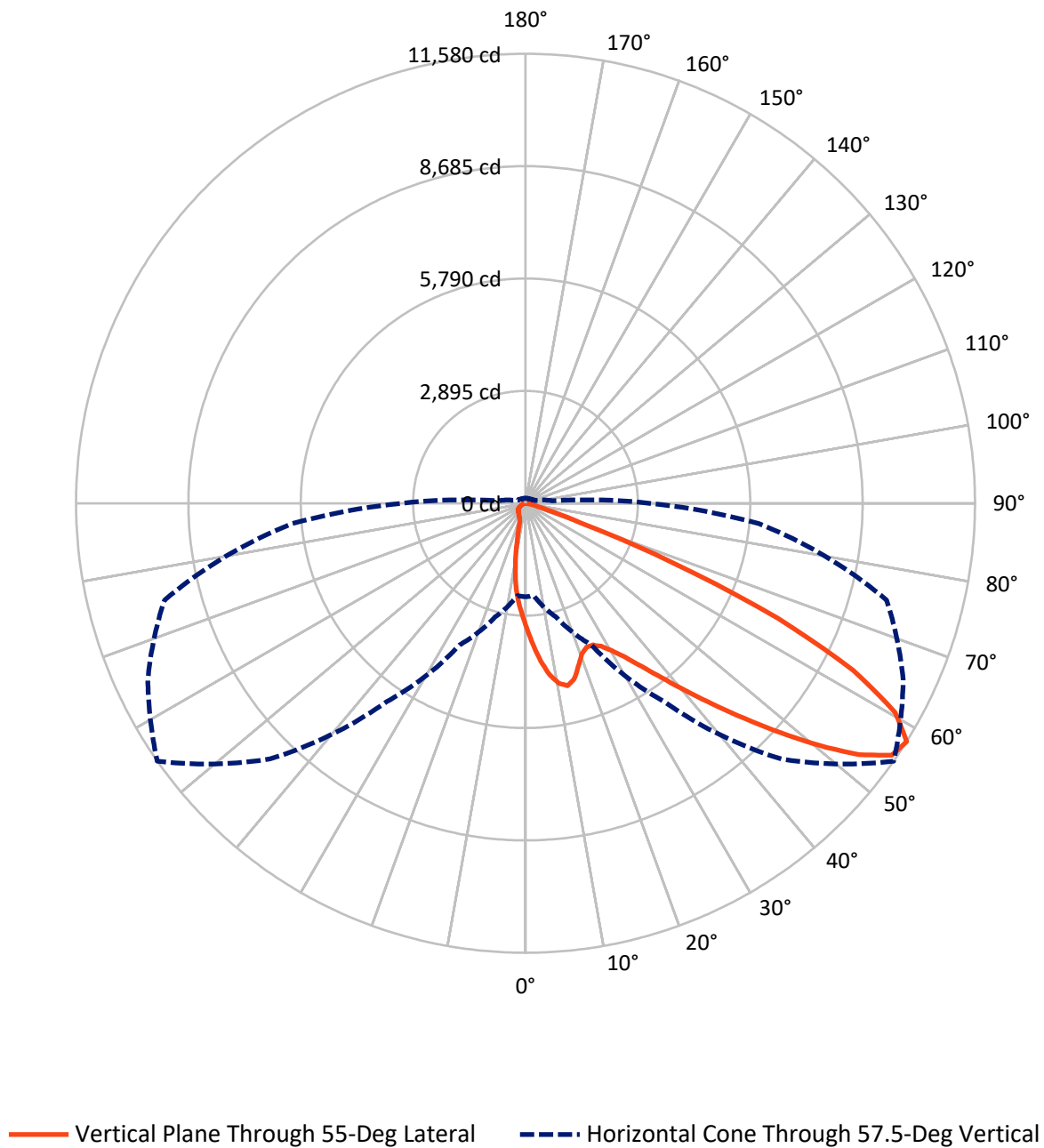


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type II - Short - N/A

REPORT NUMBER: P964181

CATALOG NUMBER: NVN-SB3B-830-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P964181

CATALOG NUMBER: NVN-SB3B-830-U-AFL-HSS

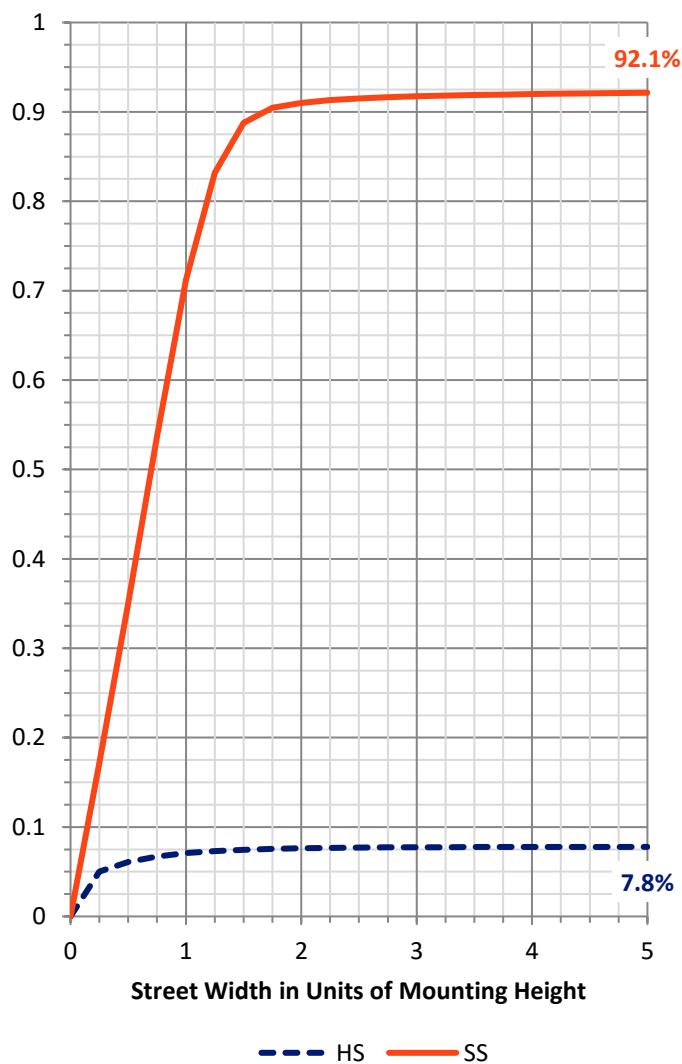
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1036.1	0.0	1036.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	12231.5	0.0	12231.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	13267.6	0.0	13267.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.5	2.2
10°-20°	718.6	5.4
20°-30°	1149.7	8.7
30°-40°	1945.9	14.7
40°-50°	3194.8	24.1
50°-60°	3511.3	26.5
60°-70°	2014.1	15.2
70°-80°	411.5	3.1
80°-90°	24.3	0.2
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°	13267.6	100.0
0°-180°	13267.6	100.0

Coefficient of Utilization



REPORT NUMBER: P964181

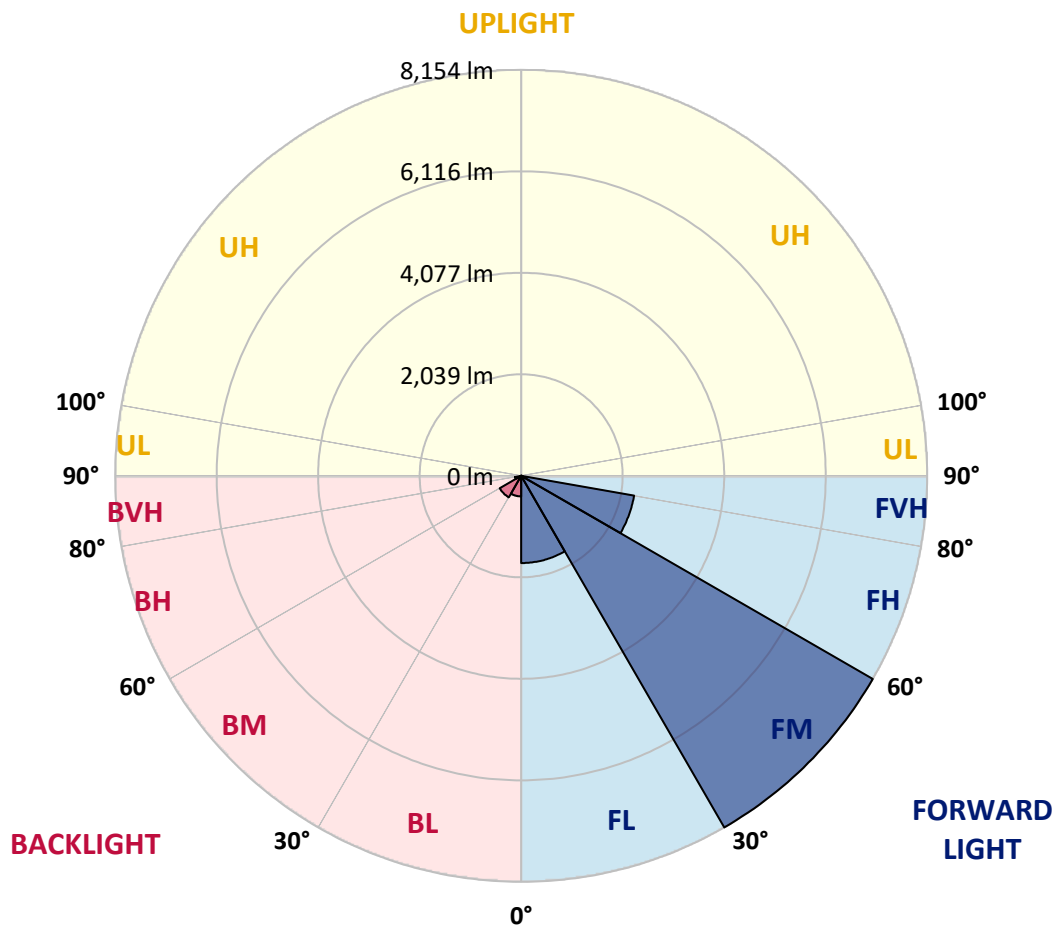
CATALOG NUMBER: NVN-SB3B-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1752.1	13.2			
FM	(30°-60°)	8154.4	61.5			
FH	(60°-80°)	2302.4	17.4			G2/5000
FVH	(80°-90°)	22.6	0.2			G1/100
BL	(0°-30°)	413.7	3.1	B1/500		
BM	(30°-60°)	497.6	3.8	B1/1000		
BH	(60°-80°)	123.2	0.9	B1/500		G1/500
BVH	(80°-90°)	1.6	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 Short



REPORT NUMBER: P964181

CATALOG NUMBER: NVN-SB3B-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3197.2	3197.2	3197.2	3197.2	3197.2	3197.2	3197.2	3197.2	3197.2	3197.2	3197.2
2.5°	3967.0	3917.1	3909.8	3899.9	3805.0	3733.9	3630.8	3517.9	3391.0	3261.8	3204.6
5°	4583.1	4543.7	4536.4	4490.6	4382.6	4261.5	4078.3	3846.7	3610.4	3332.2	3212.7
7.5°	4702.5	4695.1	4728.6	4727.0	4712.3	4616.6	4461.9	4186.3	3831.2	3418.9	3234.0
10°	4169.9	4188.7	4288.5	4376.0	4612.5	4750.0	4716.4	4489.0	4058.6	3517.9	3257.7
12.5°	3684.8	3662.6	3733.9	3832.9	4107.7	4516.8	4821.9	4741.8	4318.8	3629.9	3292.9
15°	3380.4	3371.4	3411.5	3457.3	3666.7	4079.1	4699.2	4947.1	4569.1	3762.5	3346.0
17.5°	3283.1	3275.7	3288.0	3299.5	3435.2	3754.3	4407.2	5073.1	4808.8	3913.9	3404.9
20°	3362.4	3352.6	3350.9	3342.0	3398.4	3616.0	4142.9	5082.1	5024.0	4051.3	3455.7
22.5°	3594.0	3582.5	3542.4	3506.4	3511.3	3634.9	4025.1	4992.1	5186.0	4179.7	3487.6
25°	4013.6	3994.8	3911.4	3790.2	3713.4	3765.7	4043.1	4873.5	5340.6	4280.3	3472.1
27.5°	4538.9	4514.3	4407.2	4227.2	4051.3	3987.5	4173.2	4791.7	5469.1	4357.3	3438.5
30°	5053.5	5021.6	4916.0	4776.1	4519.2	4318.0	4408.0	4827.6	5622.0	4437.4	3394.3
32.5°	5608.9	5578.7	5438.8	5265.3	5052.6	4781.8	4729.5	5003.5	5809.4	4549.5	3363.2
35°	6311.7	6264.3	6065.4	5829.0	5603.3	5329.2	5164.7	5307.0	6058.9	4720.4	3380.4
37.5°	7111.9	7048.0	6833.7	6507.2	6212.7	5905.9	5694.8	5724.3	6424.6	4949.5	3433.6
40°	7866.1	7808.0	7610.0	7302.4	6932.7	6560.4	6335.4	6270.0	6929.4	5228.5	3526.8
42.5°	8318.5	8266.1	8182.7	8052.6	7740.9	7361.3	7077.4	6935.9	7526.6	5562.3	3640.6
45°	8343.9	8298.1	8410.1	8561.5	8500.1	8247.4	7901.3	7642.0	8126.3	5875.6	3758.4
47.5°	7938.1	7907.1	8247.4	8775.8	9039.3	9145.7	8826.6	8289.1	8621.2	6100.6	3806.6
50°	6832.0	6820.6	7520.8	8491.1	9244.6	9932.7	9802.6	8891.2	9004.9	6216.8	3760.8
52.5°	5923.9	5882.2	6290.4	7579.8	8946.0	10346.7	10756.5	9481.9	9273.3	6238.9	3653.7
55°	4493.1	4456.2	4968.4	6054.8	7983.1	10199.4	11454.4	10091.3	9465.5	6182.4	3461.4
57.5°	2410.2	2387.2	3034.4	4030.0	6240.5	9315.8	11580.3	10736.1	9627.5	6032.7	3192.3
60°	938.4	934.3	1176.4	1955.3	3792.7	7579.0	10944.6	11123.0	9728.9	5848.6	2967.3
62.5°	567.7	580.0	619.3	877.8	1675.5	4708.2	9479.4	10682.9	9796.8	5680.1	2781.5
65°	469.6	470.4	475.3	602.9	802.6	1970.0	7136.4	9234.8	9629.2	5379.9	2518.1
67.5°	402.5	409.9	428.7	478.6	566.1	864.0	4108.5	7153.6	8609.0	4681.2	2107.4
70°	317.4	327.3	351.0	393.5	436.9	540.8	1518.4	4759.8	6576.8	3528.5	1593.7
72.5°	267.5	266.7	279.0	319.9	346.9	380.4	584.1	2667.0	3822.2	1684.5	788.6
75°	206.9	215.1	230.7	267.5	283.9	275.7	316.6	974.4	1369.5	510.4	268.3
77.5°	162.0	168.5	182.4	218.4	234.8	195.6	182.4	348.5	440.1	183.3	121.1
80°	72.8	78.5	124.3	161.1	191.5	135.0	99.0	178.4	195.6	83.4	61.4
82.5°	13.1	22.1	72.8	85.1	98.2	87.5	51.6	92.5	95.7	33.5	21.3
85°	0.8	1.6	25.3	31.1	39.3	28.6	15.6	36.8	31.9	11.5	8.2
87.5°	0.0	0.0	0.0	0.8	0.8	4.1	4.9	6.6	4.9	4.1	3.3
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: P964181

CATALOG NUMBER: NVN-SB3B-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3197.2	3197.2	3197.2	3197.2	3197.2	3197.2	3197.2	3197.2	3197.2	3197.2
2.5°	3145.6	3029.5	2916.5	2824.1	2770.1	2678.5	2618.0	2608.1	2582.8	2604.8
5°	3085.0	2877.3	2667.0	2478.9	2324.3	2124.6	1975.7	1912.8	1857.9	1876.8
7.5°	3056.4	2728.3	2401.2	2079.6	1749.2	1430.1	1192.8	1093.8	1018.5	1029.2
10°	3018.0	2573.8	2060.8	1570.0	1127.4	812.4	648.7	588.2	554.6	555.4
12.5°	2988.6	2388.9	1665.6	1064.4	686.4	518.6	467.9	453.3	443.4	444.2
15°	2973.8	2171.3	1275.4	709.3	490.9	439.3	427.0	420.6	414.0	413.2
17.5°	2949.2	1929.0	933.5	517.8	429.5	411.5	400.9	393.5	385.3	383.7
20°	2912.4	1654.2	682.3	437.7	402.5	388.6	373.9	364.1	354.2	352.6
22.5°	2844.6	1363.8	524.4	405.0	382.8	367.4	349.3	337.8	328.1	326.5
25°	2718.6	1091.3	441.8	384.5	365.7	346.9	327.3	311.7	302.7	301.0
27.5°	2559.0	857.4	400.9	365.7	343.6	326.5	304.3	289.6	281.5	279.8
30°	2370.8	660.2	377.1	344.4	317.4	302.7	283.1	270.8	265.9	265.9
32.5°	2168.0	527.7	367.4	323.2	294.5	278.2	262.6	257.7	256.0	255.2
35°	1977.3	458.2	362.4	306.0	274.1	258.5	251.9	252.8	256.0	256.0
37.5°	1808.0	436.0	360.0	293.7	256.0	242.2	246.2	253.6	250.3	250.3
40°	1655.1	438.5	358.3	284.7	241.4	233.2	241.4	235.6	227.4	226.6
42.5°	1538.0	459.0	355.1	277.4	232.4	226.6	223.3	214.3	213.5	215.1
45°	1452.9	476.9	354.2	274.1	222.5	211.9	207.8	198.8	215.1	219.2
47.5°	1352.3	476.9	354.2	262.6	206.1	202.0	195.6	185.7	202.0	206.1
50°	1222.2	446.7	340.3	249.5	193.1	190.6	179.2	166.9	163.6	166.0
52.5°	1057.8	391.9	305.1	231.5	180.0	175.1	161.1	152.2	149.8	149.8
55°	870.4	328.1	257.7	205.3	166.0	157.0	147.3	143.2	140.7	139.1
57.5°	707.7	269.2	206.9	182.4	153.0	141.6	138.3	133.4	129.3	126.8
60°	580.9	211.9	171.0	162.0	139.9	129.3	128.4	121.9	111.2	109.7
62.5°	448.3	155.4	144.0	140.7	126.8	117.8	116.1	103.1	86.7	83.4
65°	316.6	121.1	116.1	123.5	112.9	104.8	100.7	81.0	63.9	61.4
67.5°	222.5	101.5	91.6	108.0	98.2	87.5	85.1	68.7	53.2	51.6
70°	158.7	82.6	75.2	92.5	78.5	76.9	72.0	57.3	43.4	41.7
72.5°	112.0	63.0	58.1	80.2	54.0	66.3	58.9	44.2	32.7	31.1
75°	82.6	45.0	40.9	46.6	39.3	49.9	41.7	29.4	20.5	19.7
77.5°	60.6	28.6	24.5	22.9	22.9	31.1	22.9	12.3	9.0	8.2
80°	42.5	13.1	11.5	9.8	9.0	7.4	3.3	1.6	0.8	0.8
82.5°	25.3	5.7	5.7	4.1	2.5	0.0	0.0	0.0	0.0	0.0
85°	5.7	2.5	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	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

(END OF REPORT)