

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: P968944

Luminaire Tested: **NVN-SB5C-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5C-830-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27326.5 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.5
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

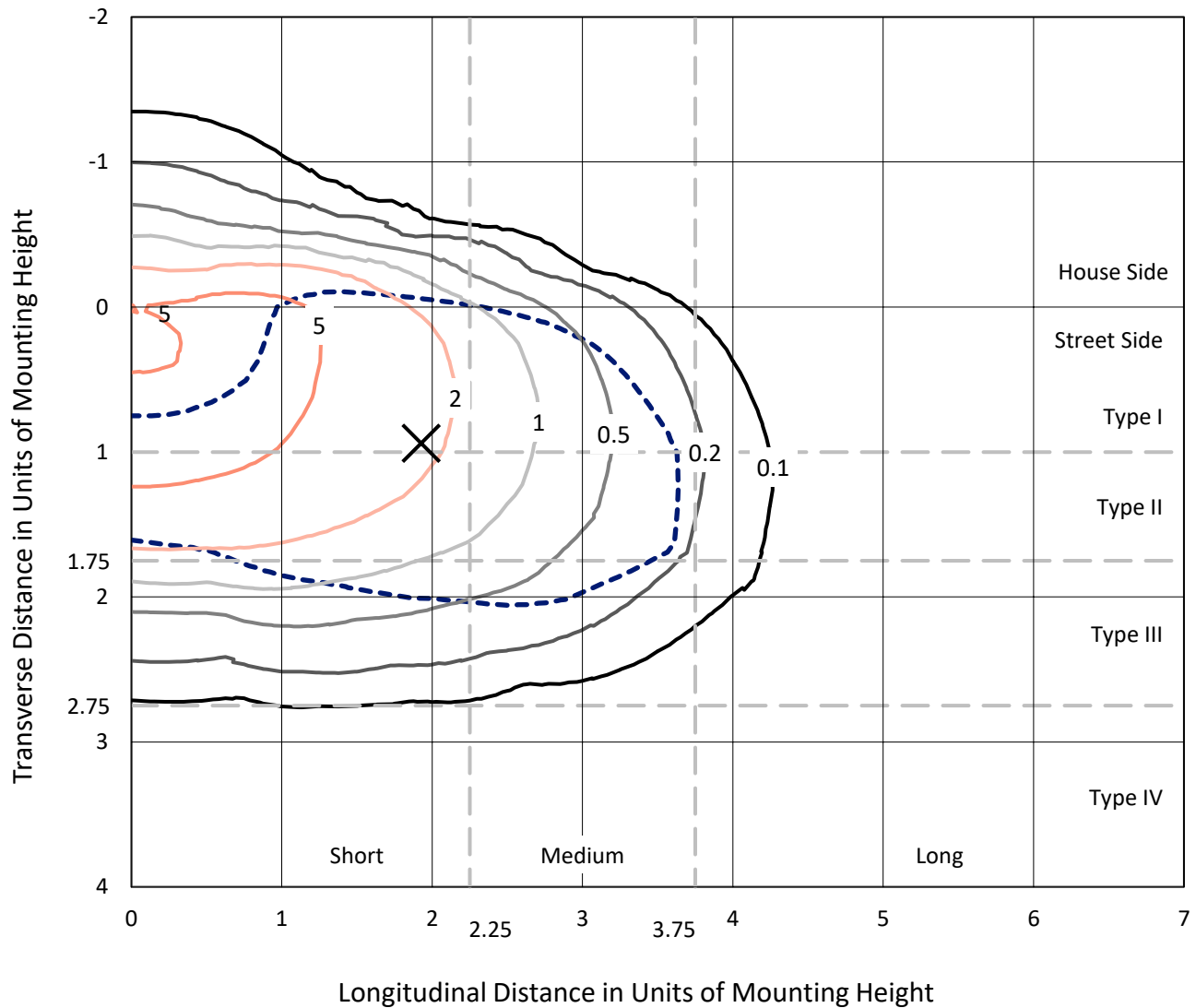


REPORT NUMBER: P968944

CATALOG NUMBER: NVN-SB5C-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

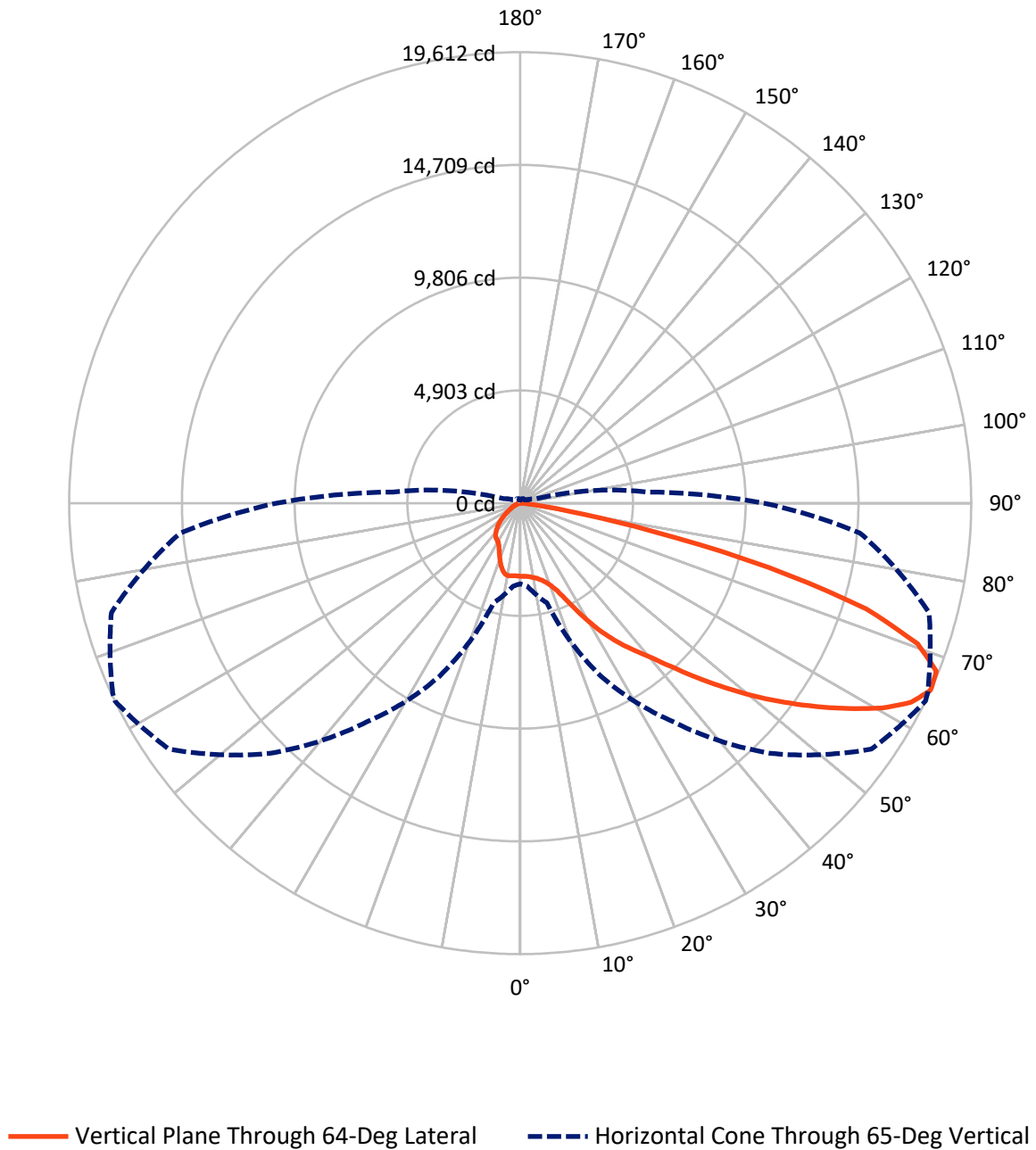


Based on 25 foot mounting height. Maximum calculated value = 8 fc
Type III - Short - N/A

REPORT NUMBER: P968944

CATALOG NUMBER: NVN-SB5C-830-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P968944

CATALOG NUMBER: NVN-SB5C-830-U-T3-HSS

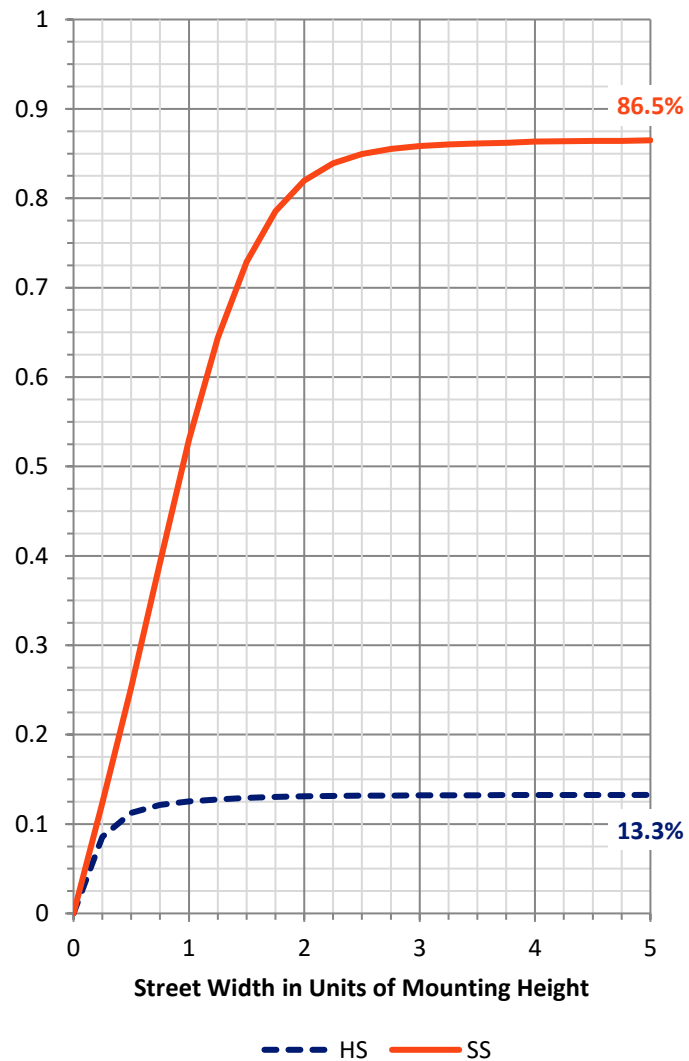
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3654.4	0.0	3654.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	23672.1	0.0	23672.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	27326.5	0.0	27326.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.2	1.1
10°-20°	795.3	2.9
20°-30°	1507.1	5.5
30°-40°	3049.7	11.2
40°-50°	5195.1	19.0
50°-60°	7065.0	25.9
60°-70°	6634.3	24.3
70°-80°	2658.0	9.7
80°-90°	128.8	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°	27326.5	100.0
0°-180°	27326.5	100.0

Coefficient of Utilization



REPORT NUMBER: P968944

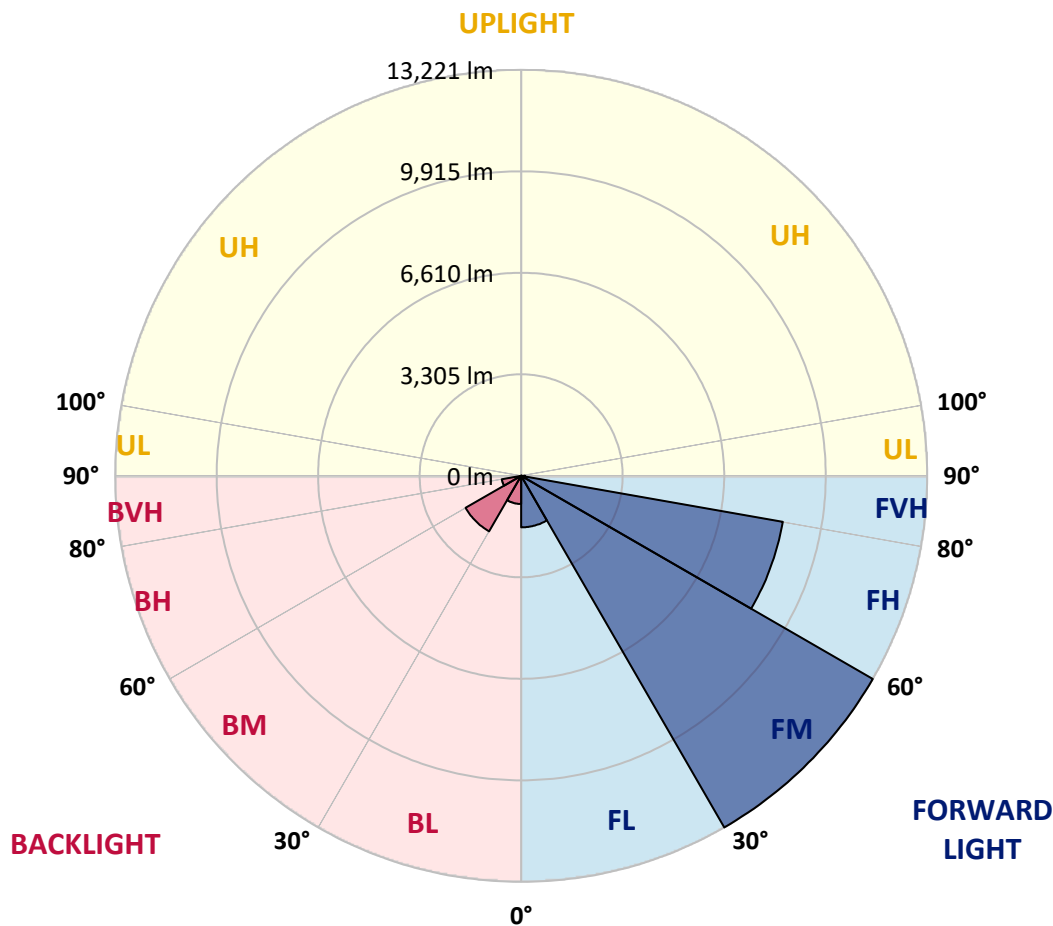
CATALOG NUMBER: NVN-SB5C-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1678.2	6.1			
FM	(30°-60°)	13220.5	48.4			
FH	(60°-80°)	8650.9	31.7			G4/12000
FVH	(80°-90°)	122.5	0.4			G2/225
BL	(0°-30°)	917.5	3.4	B2/1000		
BM	(30°-60°)	2089.2	7.6	B2/2500		
BH	(60°-80°)	641.4	2.3	B2/1000		G2/1000
BVH	(80°-90°)	6.3	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 Short



REPORT NUMBER: P968944

CATALOG NUMBER: NVN-SB5C-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3178.3	3178.3	3178.3	3178.3	3178.3	3178.3	3178.3	3178.3	3178.3	3178.3	3178.3
2.5°	3167.4	3189.4	3183.9	3178.3	3176.5	3180.2	3182.0	3180.2	3180.2	3180.2	3182.0
5°	3106.9	3125.2	3125.2	3138.0	3156.4	3178.3	3194.8	3198.5	3202.2	3207.6	3205.8
7.5°	2991.5	3006.1	3017.2	3059.3	3105.0	3163.7	3213.2	3238.8	3242.5	3262.6	3270.0
10°	2912.7	2931.1	2949.3	2993.3	3059.3	3147.3	3231.5	3293.7	3303.0	3350.5	3372.6
12.5°	2909.1	2927.4	2951.2	2998.8	3075.8	3169.2	3271.8	3361.6	3378.0	3447.7	3493.4
15°	2947.5	2969.5	2991.5	3050.1	3132.6	3246.2	3356.1	3467.8	3484.3	3583.2	3632.7
17.5°	3026.3	3055.6	3072.1	3130.8	3218.7	3345.1	3489.8	3618.0	3632.7	3748.1	3810.3
20°	3182.0	3216.9	3222.3	3270.0	3356.1	3491.7	3663.8	3823.1	3841.5	3973.4	4043.0
22.5°	3504.5	3553.9	3509.9	3533.8	3610.7	3746.3	3933.1	4134.6	4160.3	4310.4	4372.8
25°	4072.3	4141.9	4028.4	3988.1	4021.1	4162.1	4396.5	4651.2	4680.6	4801.4	4832.6
27.5°	5187.9	5098.1	4925.9	4757.4	4658.5	4739.2	5002.9	5318.0	5354.7	5471.9	5435.3
30°	6413.5	6334.7	6102.0	5728.4	5493.9	5481.1	5724.7	6076.4	6118.5	6230.4	6118.5
32.5°	7640.9	7565.7	7313.0	6853.2	6446.4	6244.9	6413.5	6803.7	6825.7	6897.1	6732.3
35°	8848.1	8771.1	8518.4	8047.6	7547.5	7089.5	7056.5	7496.1	7503.5	7578.5	7333.2
37.5°	10062.6	9998.6	9729.3	9267.6	8774.8	8142.8	7836.8	8151.9	8161.2	8234.4	7979.8
40°	10929.2	10956.6	10771.6	10414.4	9991.2	9300.5	8712.5	8850.0	8795.0	8917.7	8765.7
42.5°	11672.9	11727.8	11566.6	11387.1	11141.6	10533.4	9797.1	9773.2	9685.3	9751.2	9593.7
45°	12315.9	12361.7	12217.0	12174.8	12169.3	11742.5	10982.3	10839.4	10716.7	10703.9	10515.2
47.5°	12552.3	12640.2	12702.4	12843.5	13118.3	12938.8	12207.9	11986.1	11848.8	11748.0	11449.5
50°	12641.9	12735.4	12947.9	13358.2	14008.6	14085.6	13427.9	13178.7	13010.2	12827.0	12387.3
52.5°	12521.1	12687.8	12973.5	13664.2	14607.6	15005.2	14598.5	14380.4	14188.2	13889.5	13237.4
55°	11808.5	11975.2	12559.5	13660.5	14906.2	15650.0	15704.9	15607.9	15391.7	14920.8	13924.3
57.5°	10306.3	10553.6	11478.7	13195.2	14900.7	16205.0	16789.4	16859.0	16617.2	15943.1	14464.7
60°	8225.2	8560.5	9688.9	12163.9	14440.9	16505.5	17740.2	18088.3	17831.7	16950.6	14902.6
62.5°	5739.4	6127.8	7195.7	10548.1	13389.4	16289.3	18434.4	19077.5	18883.3	17851.9	15071.1
65°	3500.8	3625.3	4486.3	8300.3	11601.5	15384.3	18648.7	19612.4	19548.3	18403.4	14821.9
67.5°	2332.0	2436.4	2683.8	5691.7	9005.6	13576.2	18135.8	19519.0	19537.3	18313.6	13909.7
70°	1405.1	1494.9	1656.1	3310.2	5836.5	10746.0	16547.6	18328.2	18434.4	17113.7	12180.4
72.5°	578.9	639.3	785.9	1500.3	3022.6	6820.1	13176.9	15736.1	15983.3	14389.6	9348.2
75°	327.9	359.1	461.7	752.9	1311.7	3178.3	7981.6	11171.0	11535.6	9917.9	5624.0
77.5°	218.0	232.7	298.6	487.3	738.3	1084.4	3411.0	5820.0	6516.1	5416.9	2434.6
80°	146.6	159.4	205.2	326.1	480.0	465.4	1086.3	2156.2	2652.6	1861.2	593.6
82.5°	98.9	100.8	146.6	214.3	304.1	225.3	320.6	670.5	842.7	538.5	225.3
85°	56.8	54.9	108.0	124.5	135.6	93.4	97.1	201.5	263.8	227.1	128.2
87.5°	7.3	11.0	42.1	33.0	18.3	20.2	20.2	34.8	51.2	54.9	27.5
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: P968944

CATALOG NUMBER: NVN-SB5C-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3178.3	3178.3	3178.3	3178.3	3178.3	3178.3	3178.3	3178.3	3178.3	3178.3	3178.3
2.5°	3182.0	3180.2	3174.7	3169.2	3156.4	3149.0	3152.7	3149.0	3147.3	3149.0	3156.4
5°	3205.8	3200.4	3185.7	3167.4	3141.7	3110.6	3090.4	3061.2	3033.6	3017.2	3020.8
7.5°	3270.0	3264.4	3244.3	3193.0	3110.6	2980.5	2861.4	2757.0	2678.2	2632.4	2634.2
10°	3372.6	3363.3	3332.3	3218.7	3002.5	2718.5	2482.2	2286.3	2158.0	2097.6	2092.0
12.5°	3493.4	3482.4	3427.5	3194.8	2797.3	2354.0	2028.0	1809.9	1690.8	1637.7	1632.2
15°	3636.3	3621.6	3513.6	3081.3	2498.7	1951.0	1652.4	1489.3	1412.4	1364.8	1366.6
17.5°	3814.0	3788.4	3577.7	2910.9	2174.4	1643.2	1421.6	1298.8	1231.0	1185.2	1181.6
20°	4044.9	4002.7	3629.0	2707.5	1875.9	1449.0	1265.9	1163.3	1111.9	1071.6	1064.4
22.5°	4367.2	4306.8	3691.3	2487.8	1665.2	1315.3	1150.5	1075.3	1033.2	987.4	980.1
25°	4766.7	4695.2	3768.2	2284.4	1520.5	1199.9	1066.2	1003.9	954.4	901.3	895.8
27.5°	5325.4	5197.2	3859.8	2117.6	1395.9	1101.0	989.2	919.6	862.8	818.9	809.7
30°	5948.2	5737.5	3940.4	2016.9	1282.4	1009.4	888.5	818.9	765.8	734.6	729.1
32.5°	6538.1	6252.3	3993.5	1972.9	1179.8	905.0	778.6	703.5	663.2	653.9	659.5
35°	7094.9	6717.6	3988.1	1930.8	1088.1	800.5	670.5	593.6	562.4	567.8	567.8
37.5°	7736.1	7214.1	3949.6	1864.9	1013.0	705.3	577.1	509.2	481.7	483.6	491.0
40°	8481.8	7787.4	3925.7	1740.3	930.6	617.4	500.1	445.2	425.0	417.7	415.8
42.5°	9276.8	8342.5	3929.4	1599.2	828.0	538.5	447.0	401.2	382.8	377.4	375.6
45°	10075.4	8871.9	3935.0	1452.7	720.0	478.2	408.6	370.0	359.1	351.7	351.7
47.5°	10826.6	9322.6	3832.4	1295.2	613.7	432.3	377.4	351.7	342.6	333.4	333.4
50°	11526.3	9623.0	3585.0	1111.9	529.4	395.6	353.5	335.3	326.1	316.9	316.9
52.5°	12070.4	9670.7	3176.5	923.3	470.8	368.2	338.9	322.5	311.4	302.3	300.4
55°	12312.2	9372.0	2595.8	747.4	425.0	344.4	324.2	307.8	294.9	285.8	283.9
57.5°	12250.0	8743.7	2024.3	600.9	381.0	320.6	306.0	294.9	280.2	265.6	263.8
60°	11944.0	7902.9	1526.0	500.1	340.7	294.9	285.8	276.6	256.5	234.5	230.8
62.5°	11414.6	6845.9	1088.1	414.0	296.7	265.6	262.0	254.6	225.3	185.0	181.3
65°	10604.9	5561.6	732.8	344.4	254.6	232.7	234.5	221.7	183.2	137.4	133.8
67.5°	9421.5	4066.8	468.9	282.1	212.5	194.1	196.0	188.7	155.7	117.3	111.7
70°	7913.8	2692.9	306.0	214.3	170.4	150.3	161.2	163.1	131.9	95.2	91.6
72.5°	5801.6	1590.1	214.3	159.4	124.5	104.4	131.9	135.6	106.3	71.4	67.8
75°	3306.5	754.7	161.2	115.4	77.0	73.3	102.6	102.6	73.3	47.7	44.0
77.5°	1388.6	315.1	113.6	75.1	44.0	42.1	69.6	64.2	36.6	21.9	21.9
80°	401.2	141.0	60.5	36.6	18.3	16.5	27.5	20.2	9.1	3.7	3.7
82.5°	157.5	62.3	23.8	14.7	7.3	7.3	3.7	0.0	0.0	0.0	0.0
85°	93.4	25.6	11.0	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.8	5.5	3.7	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)