

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: P965253

Luminaire Tested: **NVN-SB3D-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3D-830-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28497 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 218.1
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

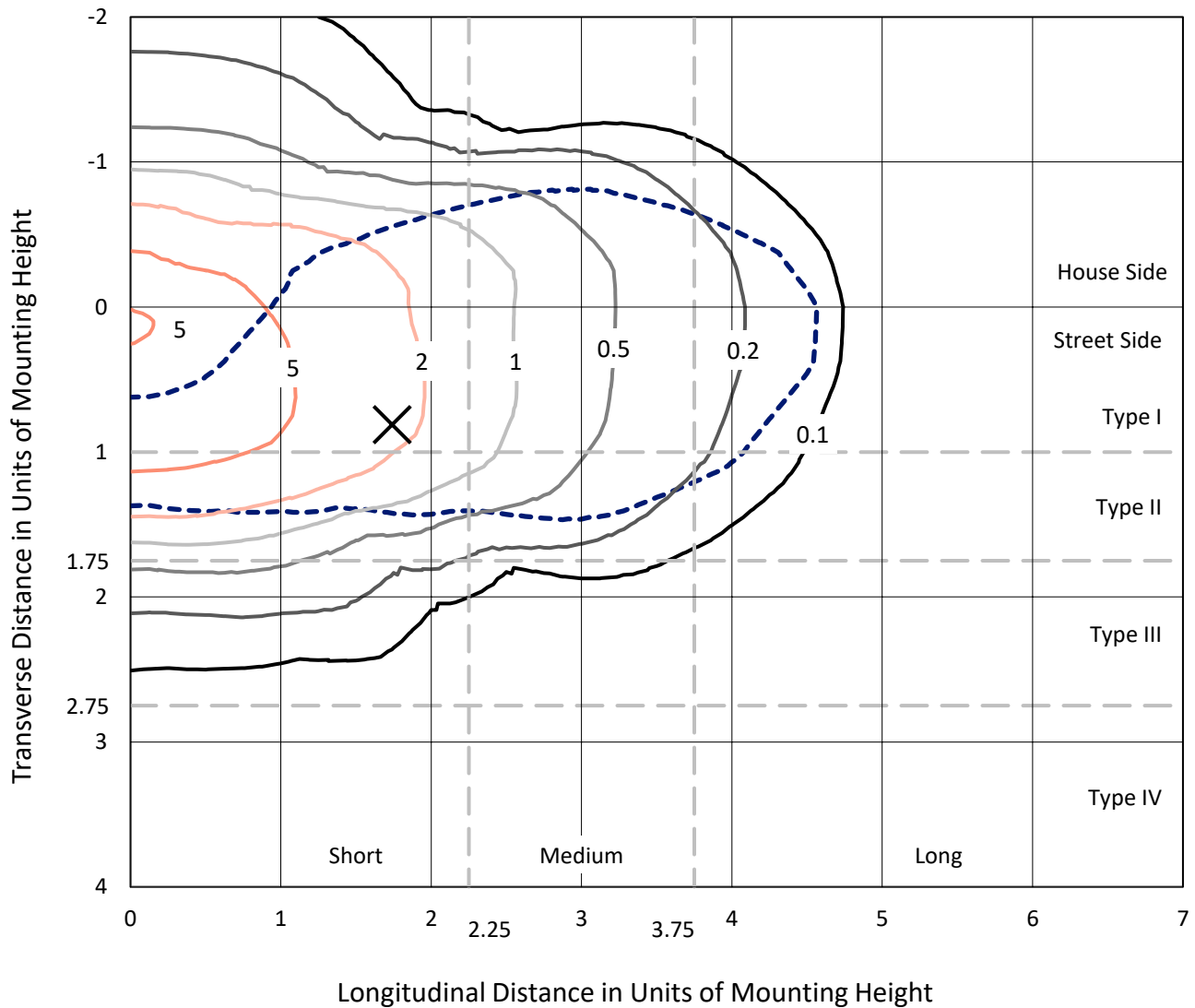


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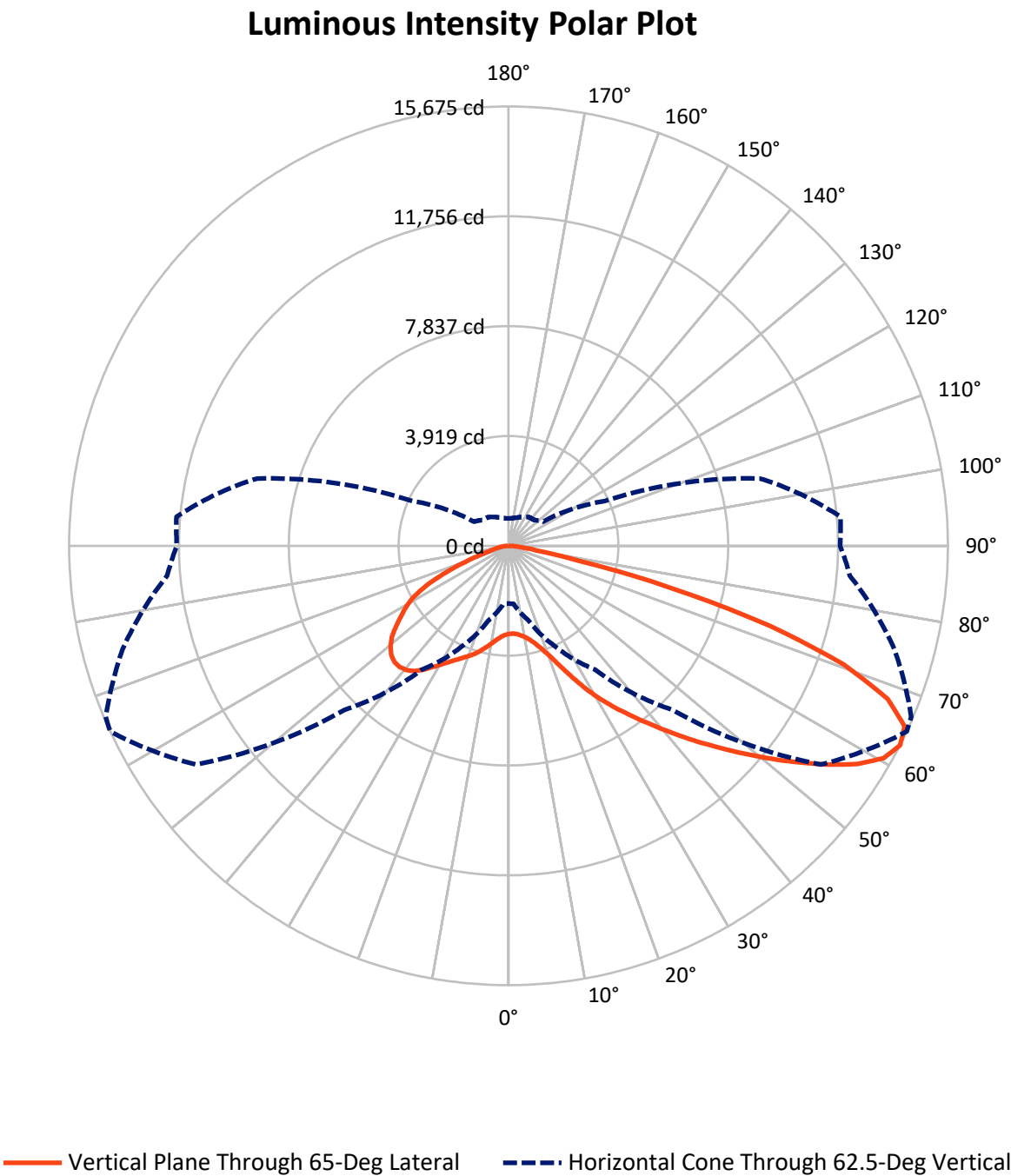
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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

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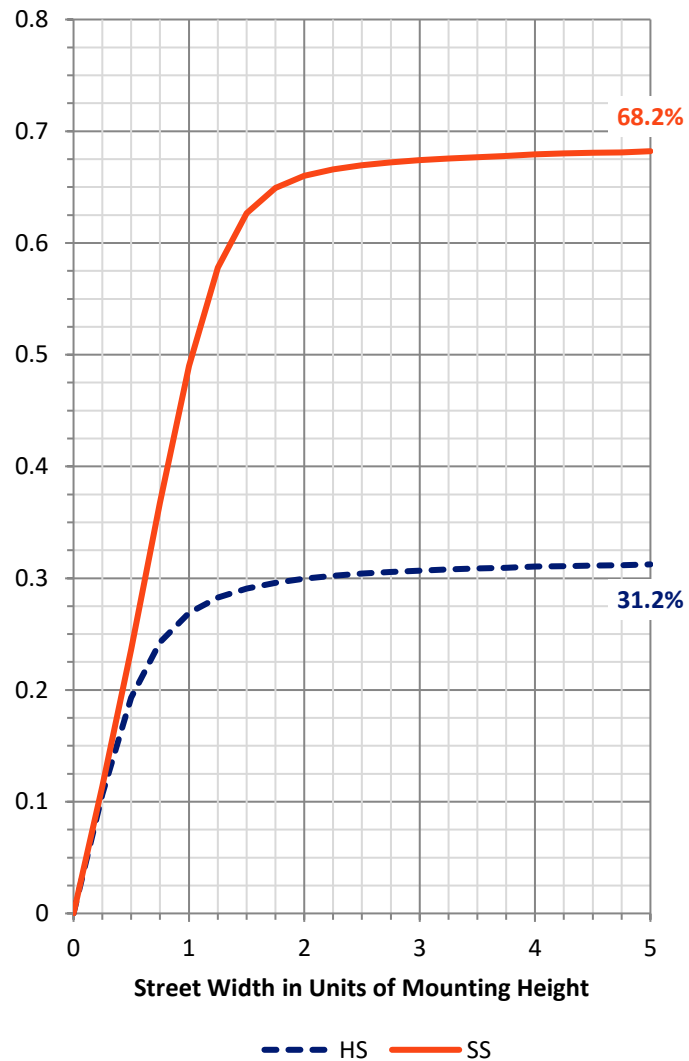
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8992.4	0.0	8992.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	19504.6	0.0	19504.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	28497.0	0.0	28497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.1	1.1
10°-20°	1061.7	3.7
20°-30°	2152.7	7.6
30°-40°	3725.2	13.1
40°-50°	5637.3	19.8
50°-60°	6609.4	23.2
60°-70°	5541.2	19.4
70°-80°	3059.2	10.7
80°-90°	397.4	1.4
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°	28497.0	100.0
0°-180°	28497.0	100.0

Coefficient of Utilization



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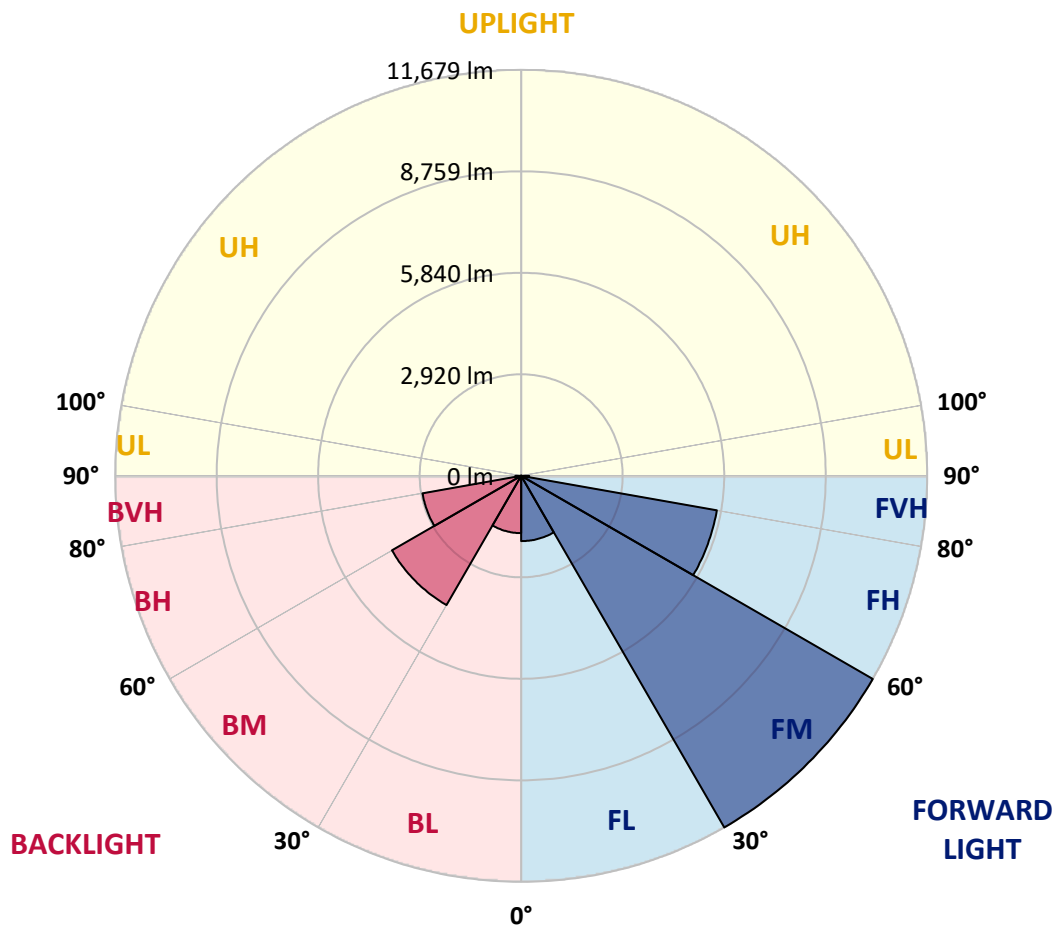
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1878.3	6.6			
FM	(30°-60°)	11679.0	41.0			
FH	(60°-80°)	5715.7	20.1			G3/7500
FVH	(80°-90°)	231.6	0.8			G3/500
BL	(0°-30°)	1649.1	5.8	B3/2500		
BM	(30°-60°)	4292.9	15.1	B3/5000		
BH	(60°-80°)	2884.7	10.1	B4/5000		G4/5000
BVH	(80°-90°)	165.8	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3140.3	3140.3	3140.3	3140.3	3140.3	3140.3	3140.3	3140.3	3140.3	3140.3	3140.3
2.5°	3119.6	3110.7	3118.0	3118.0	3121.0	3119.6	3129.9	3132.8	3137.3	3146.1	3146.1
5°	3088.5	3087.0	3100.3	3112.2	3124.0	3134.3	3147.7	3166.8	3169.8	3180.2	3193.5
7.5°	3078.2	3069.3	3090.0	3104.7	3132.8	3158.0	3193.5	3226.0	3239.3	3243.7	3268.8
10°	3158.0	3143.2	3162.4	3171.4	3194.9	3220.0	3261.4	3313.2	3328.0	3345.8	3373.9
12.5°	3294.0	3277.7	3305.8	3319.2	3341.3	3363.5	3391.6	3441.8	3449.2	3481.8	3508.4
15°	3480.3	3461.1	3478.8	3495.0	3532.0	3552.8	3580.8	3629.6	3629.6	3654.7	3674.0
17.5°	3733.2	3707.9	3721.3	3727.2	3750.9	3781.9	3829.2	3872.0	3894.3	3885.4	3858.8
20°	4110.1	4079.1	4079.1	4049.5	4040.7	4065.8	4127.9	4187.0	4210.7	4164.8	4099.8
22.5°	4676.4	4632.0	4606.9	4506.3	4466.4	4469.4	4531.5	4603.9	4623.2	4541.9	4395.5
25°	5396.4	5326.9	5292.9	5145.1	5054.9	4976.5	5025.3	5118.4	5145.1	5044.5	4808.0
27.5°	6116.4	6120.8	6088.3	5910.9	5761.5	5618.1	5593.0	5690.6	5718.7	5604.8	5312.1
30°	7126.2	7021.2	6959.1	6746.2	6533.3	6332.2	6228.7	6268.7	6276.1	6140.1	5800.0
32.5°	7996.9	7970.4	7837.4	7651.0	7377.5	7062.6	6889.6	6826.1	6814.2	6620.6	6216.9
35°	8989.0	8974.3	8833.8	8612.0	8316.3	7878.8	7566.8	7384.9	7370.2	7098.1	6629.4
37.5°	9997.3	9997.3	9859.9	9617.4	9311.3	8764.4	8289.7	8001.5	7954.1	7599.2	7049.3
40°	10801.7	10752.9	10778.0	10676.0	10325.5	9744.6	9092.6	8674.2	8610.5	8184.7	7495.8
42.5°	11258.5	11242.2	11393.0	11506.9	11363.5	10899.2	9976.6	9403.0	9314.3	8829.3	8010.3
45°	11360.5	11342.8	11611.8	12028.8	12229.8	12039.1	10937.7	10170.4	10062.4	9503.6	8561.7
47.5°	11125.5	11090.0	11484.7	12142.6	12787.2	13122.9	11978.5	11002.7	10846.0	10160.0	9128.0
50°	10418.7	10384.7	10982.1	11855.8	12975.0	13859.1	13108.0	11885.4	11645.8	10863.8	9700.2
52.5°	8882.5	8898.8	9834.8	11035.3	12728.0	14317.4	14080.8	12815.3	12527.0	11583.7	10236.9
55°	6919.2	6954.7	8104.9	9426.6	11740.5	14247.9	14744.7	13773.3	13486.5	12260.8	10791.3
57.5°	4954.3	5111.1	6188.8	7497.3	9843.6	13146.4	14889.6	14684.0	14406.2	13000.1	11333.8
60°	3211.2	3239.3	4348.2	5666.9	7495.8	11189.0	14595.4	15374.5	15157.2	13754.2	11787.8
62.5°	2058.0	2077.3	2752.9	3963.8	5394.9	8277.9	13604.8	15674.6	15608.1	14252.3	12223.9
65°	1512.5	1497.7	1849.5	2619.8	3634.0	5105.1	11681.3	15529.8	15661.4	14564.3	12584.6
67.5°	1262.6	1241.9	1414.9	1814.0	2677.5	2899.2	8643.1	14588.0	15070.0	14528.9	12849.3
70°	1150.3	1132.5	1237.5	1346.8	2089.1	1941.2	4357.1	12682.2	13424.4	14125.2	12806.5
72.5°	974.3	943.3	1086.7	1196.1	1624.8	1488.8	1800.7	9741.6	10646.4	12831.6	12203.2
75°	755.5	734.8	857.5	1052.7	1221.2	1162.0	1138.4	5915.3	6903.0	9923.4	10676.0
77.5°	598.8	570.7	683.1	820.5	1098.5	876.7	829.4	2547.4	3526.1	6335.2	7988.1
80°	450.9	425.8	519.0	649.0	844.2	660.9	536.7	1039.4	1329.1	3209.8	4017.0
82.5°	320.8	298.7	362.2	476.1	567.7	592.9	329.7	582.5	655.0	1237.5	897.4
85°	205.5	192.2	242.5	298.7	360.7	381.4	201.1	304.5	334.2	510.0	374.0
87.5°	112.3	91.6	130.1	139.0	167.1	152.3	96.1	110.9	119.7	184.8	158.2
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°	3140.3	3140.3	3140.3	3140.3	3140.3	3140.3	3140.3	3140.3	3140.3	3140.3	3140.3
2.5°	3152.1	3156.5	3171.4	3175.8	3186.1	3199.4	3208.2	3217.2	3217.2	3226.0	3226.0
5°	3194.9	3205.3	3236.3	3252.6	3279.2	3305.8	3322.1	3341.3	3353.2	3359.0	3362.0
7.5°	3277.7	3294.0	3338.3	3366.4	3412.3	3449.2	3474.3	3501.0	3506.9	3523.1	3517.3
10°	3390.1	3409.4	3459.6	3512.8	3567.5	3613.3	3637.0	3656.3	3663.7	3666.6	3659.1
12.5°	3518.7	3546.8	3611.9	3677.0	3734.6	3774.5	3780.4	3776.0	3755.3	3737.6	3737.6
15°	3677.0	3702.1	3774.5	3845.5	3901.7	3909.0	3872.0	3848.5	3823.2	3818.8	3818.8
17.5°	3866.2	3879.5	3946.0	4015.5	4019.9	3994.8	3940.1	3918.0	3894.3	3878.0	3879.5
20°	4086.5	4082.1	4129.3	4158.9	4127.9	4051.0	3968.2	3931.2	3907.6	3888.3	3889.9
22.5°	4349.6	4315.7	4309.7	4302.3	4219.5	4058.4	3946.0	3898.7	3861.8	3835.1	3844.0
25°	4732.5	4602.5	4512.3	4462.0	4275.7	4018.4	3875.0	3770.1	3700.6	3654.7	3672.5
27.5°	5211.6	4992.8	4765.1	4642.3	4275.7	3937.1	3703.5	3533.5	3419.7	3372.4	3396.0
30°	5668.5	5439.3	5103.7	4859.7	4265.3	3804.1	3427.1	3190.5	3057.5	3010.1	3038.2
32.5°	6058.8	5808.9	5462.9	5097.7	4240.2	3588.2	3084.0	2822.3	2693.8	2637.5	2665.6
35°	6420.9	6154.8	5823.6	5359.4	4173.7	3271.8	2707.0	2507.5	2364.1	2273.9	2303.5
37.5°	6792.1	6475.6	6165.2	5596.0	4054.0	2902.2	2417.3	2247.2	2078.7	1957.4	1990.0
40°	7195.7	6817.2	6530.4	5736.4	3857.3	2550.3	2192.6	2037.3	1858.4	1729.8	1754.9
42.5°	7667.3	7226.8	6936.9	5808.9	3588.2	2300.5	2046.2	1893.9	1725.4	1620.4	1641.1
45°	8159.6	7677.7	7308.0	5807.4	3288.1	2183.7	1998.9	1848.1	1661.8	1552.4	1570.1
47.5°	8675.6	8149.3	7628.9	5712.7	3027.8	2200.0	1972.3	1749.1	1543.5	1437.0	1451.8
50°	9193.0	8665.2	7939.3	5535.3	2917.0	2164.5	1873.2	1610.1	1367.6	1271.5	1277.4
52.5°	9706.1	9213.7	8207.0	5282.5	2804.6	2032.9	1746.1	1429.7	1295.1	1228.6	1228.6
55°	10222.1	9756.4	8498.2	4914.4	2523.8	1879.1	1533.2	1361.7	1237.5	1176.9	1171.0
57.5°	10739.5	10383.2	8774.7	4546.3	2170.3	1689.9	1416.3	1278.9	1179.8	1128.1	1119.2
60°	11277.7	11100.2	9060.0	4207.7	1821.4	1447.4	1330.7	1212.4	1111.8	1054.1	1049.7
62.5°	11832.1	11889.8	9283.2	3771.6	1500.6	1299.6	1253.8	1132.5	1034.9	980.2	978.8
65°	12391.0	12651.2	9429.6	3166.8	1216.8	1159.1	1171.0	1045.3	946.2	898.9	897.4
67.5°	12812.3	13199.7	9388.2	2396.6	997.9	1026.0	1067.4	953.6	860.5	823.5	825.0
70°	12859.6	13134.7	8980.1	1641.1	835.4	896.0	952.1	863.5	767.3	740.7	742.2
72.5°	12229.8	12247.6	7843.2	1071.8	706.7	786.6	830.9	771.7	678.7	652.0	650.6
75°	10578.4	10128.9	5758.7	706.7	591.4	675.7	717.1	675.7	585.5	591.4	570.7
77.5°	8014.8	7173.5	3496.6	502.7	493.8	567.7	623.9	594.3	517.4	581.1	511.6
80°	4129.3	3881.0	1559.7	375.6	390.3	453.9	513.0	474.6	409.5	390.3	356.3
82.5°	946.2	1099.9	615.0	269.1	282.4	326.8	391.8	356.3	294.2	248.4	245.4
85°	331.2	362.2	272.0	168.5	165.5	204.1	266.1	238.0	199.6	159.7	168.5
87.5°	105.0	137.5	102.0	68.1	70.9	91.6	122.7	112.3	93.2	60.6	63.6
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)