

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: P969999

Luminaire Tested: **NVN-SB6A-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969999
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-SB6A-830-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA 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: 20857.7 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 170.9
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

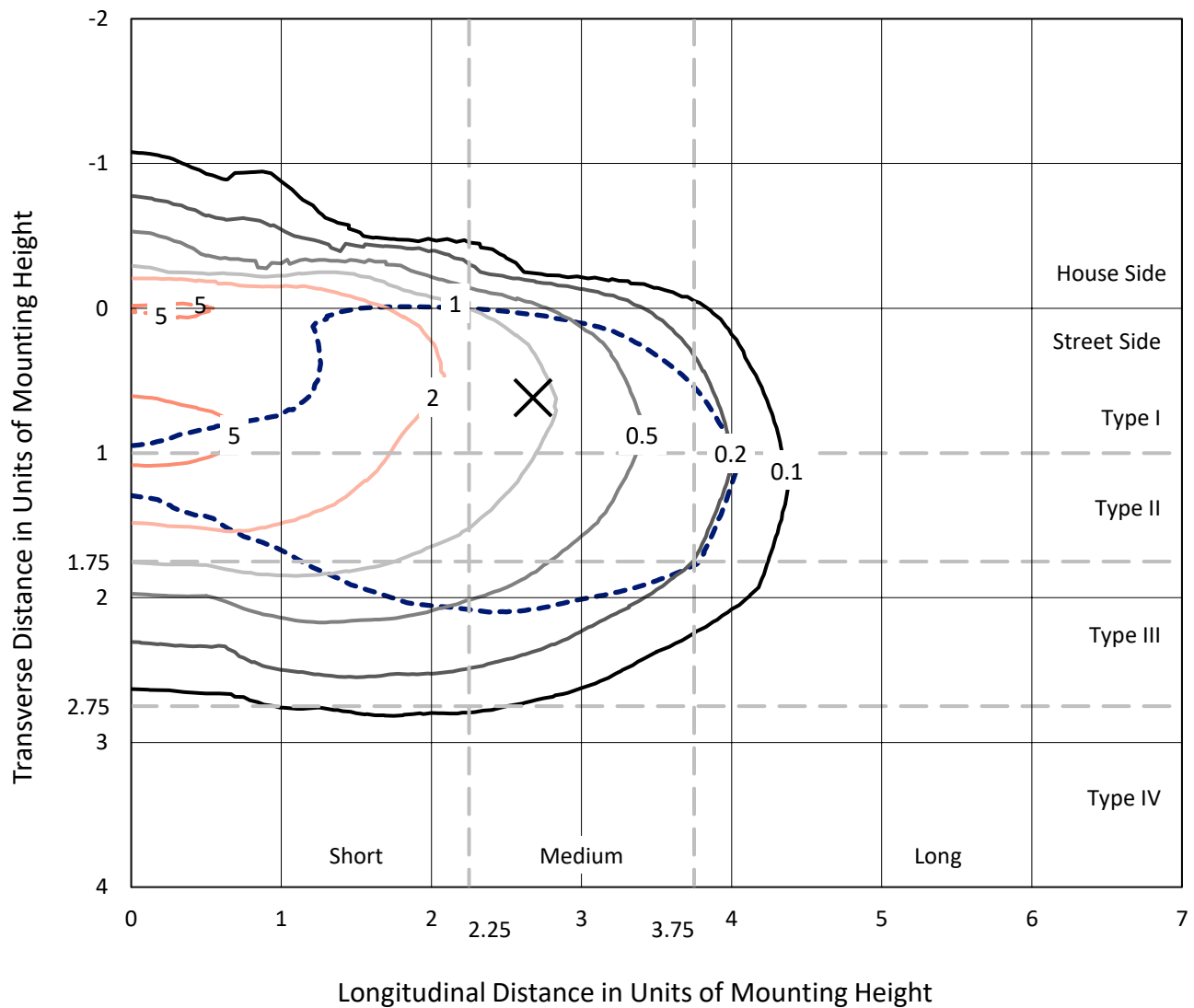


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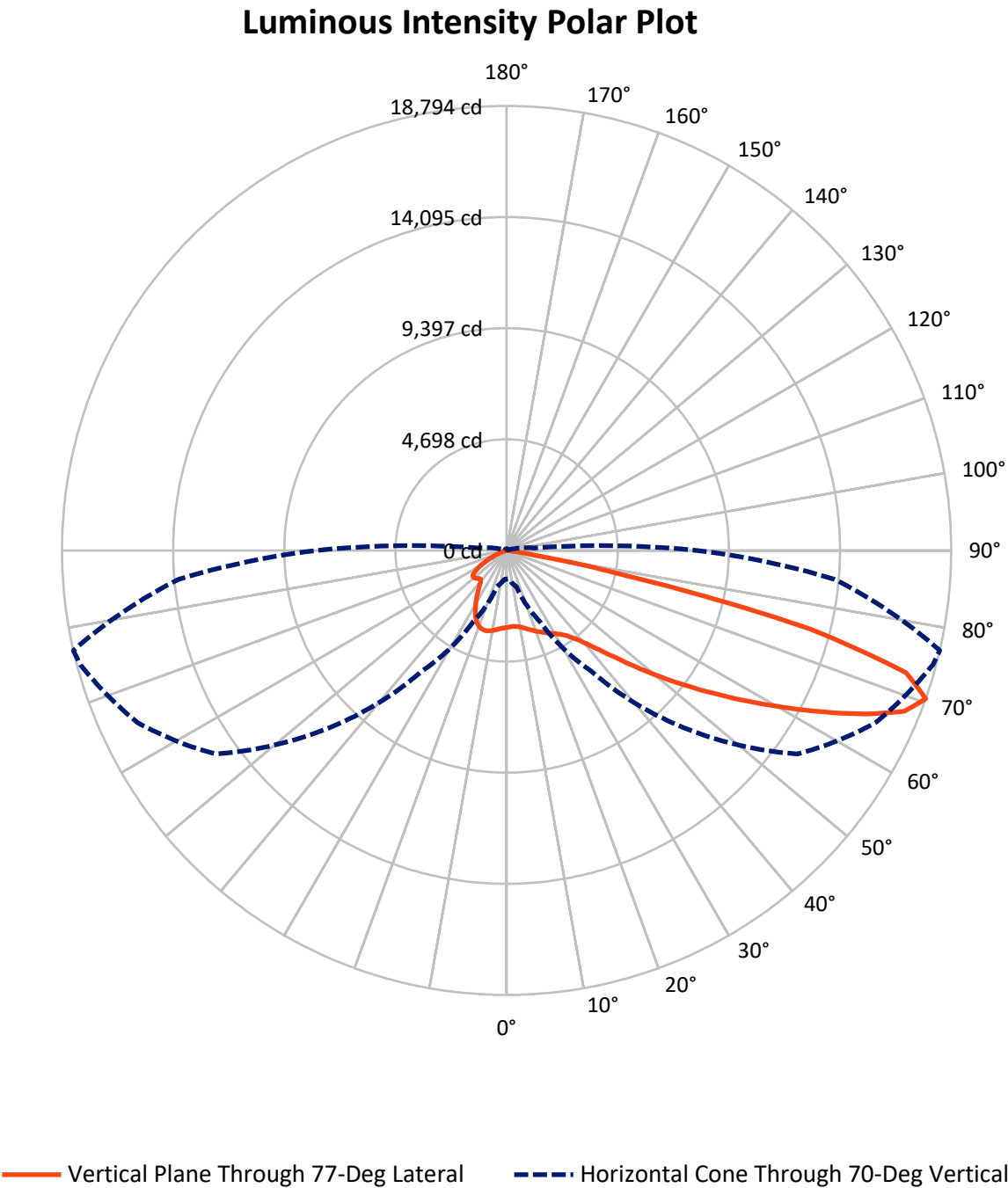
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type III - Medium - N/A

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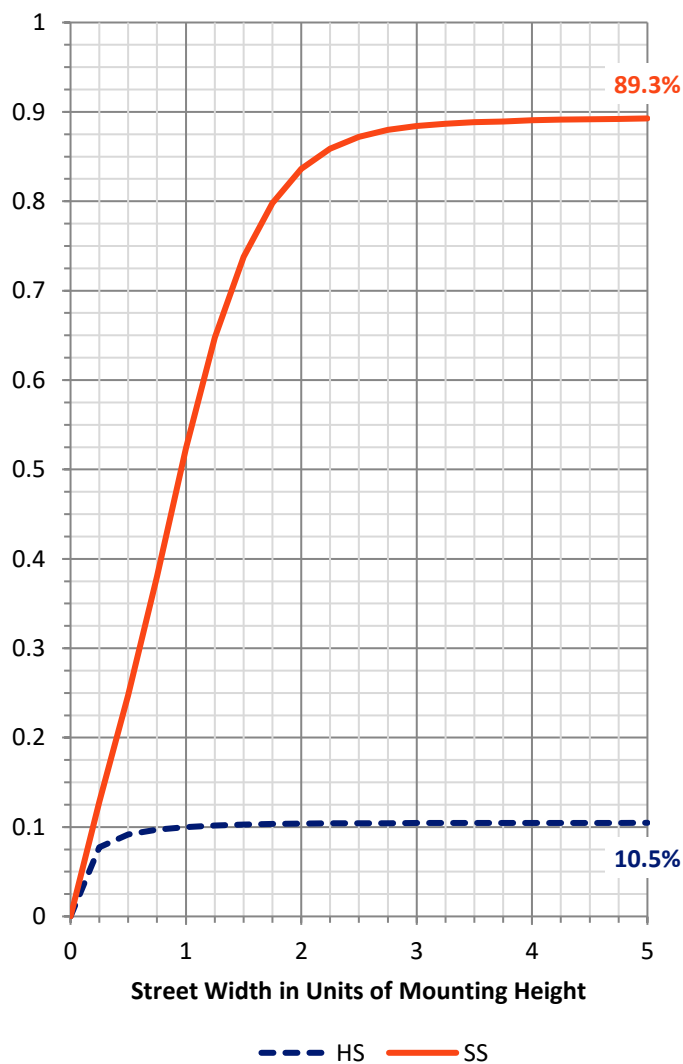
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2198.7	0.0	2198.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	18659.0	0.0	18659.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	20857.7	0.0	20857.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.4	1.3
10°-20°	665.6	3.2
20°-30°	1029.5	4.9
30°-40°	1868.1	9.0
40°-50°	3526.3	16.9
50°-60°	5095.3	24.4
60°-70°	5423.8	26.0
70°-80°	2874.2	13.8
80°-90°	94.4	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°	20857.7	100.0
0°-180°	20857.7	100.0

Coefficient of Utilization



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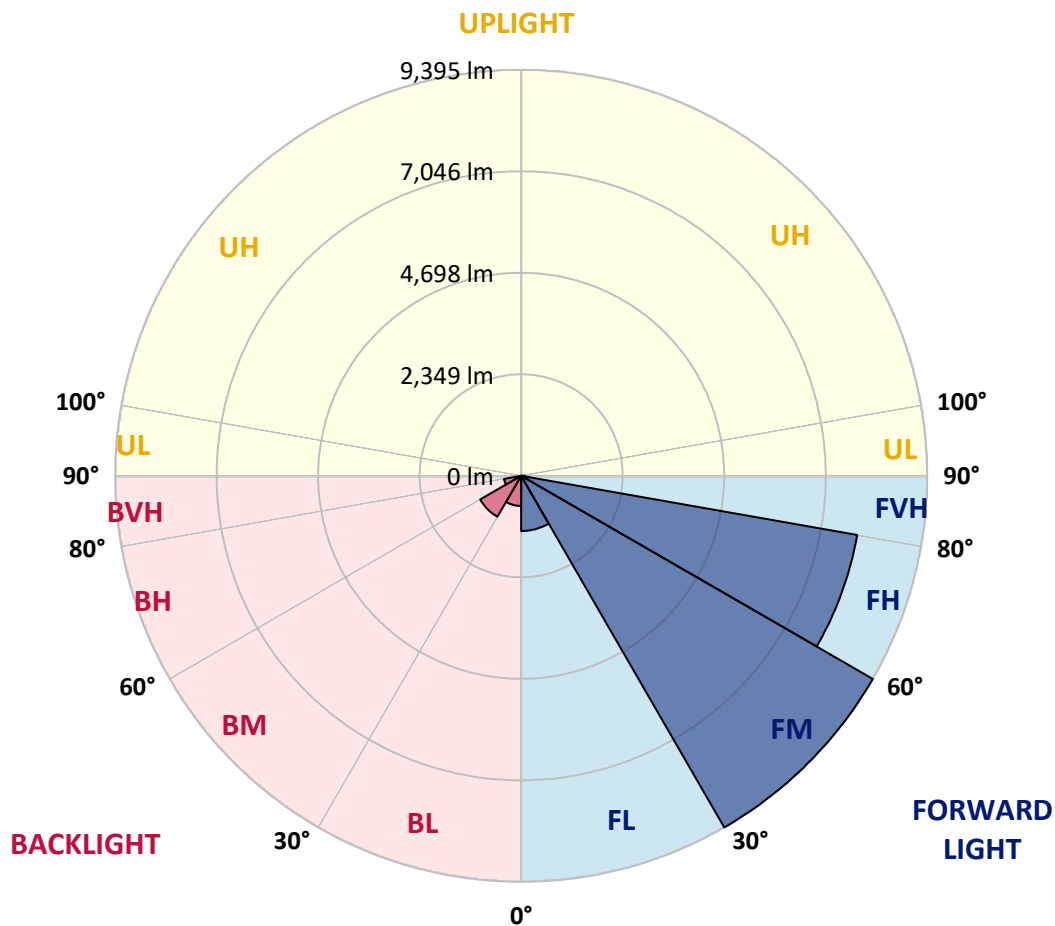
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1277.0	6.1			
FM	(30°-60°)	9395.3	45.0			
FH	(60°-80°)	7894.9	37.9			G4/12000
FVH	(80°-90°)	91.8	0.4			G1/100
BL	(0°-30°)	698.6	3.3	B2/1000		
BM	(30°-60°)	1094.5	5.2	B2/2500		
BH	(60°-80°)	403.1	1.9	B1/500		G1/500
BVH	(80°-90°)	2.5	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3253.5	3253.5	3253.5	3253.5	3253.5	3253.5	3253.5	3253.5	3253.5	3253.5	3253.5
2.5°	3054.5	3082.2	3078.3	3096.7	3103.3	3129.6	3156.0	3191.5	3231.0	3229.7	3256.0
5°	2882.0	2909.7	2916.2	2941.2	2972.9	3013.7	3067.7	3138.9	3212.6	3224.4	3277.1
7.5°	2677.8	2706.8	2723.9	2774.0	2832.0	2916.2	3004.5	3108.5	3231.0	3248.1	3349.6
10°	2473.6	2500.0	2522.4	2593.6	2685.7	2810.9	2954.5	3104.6	3269.2	3294.2	3437.8
12.5°	2347.2	2372.3	2397.3	2459.2	2573.8	2726.6	2921.5	3123.1	3332.5	3368.0	3557.7
15°	2302.5	2324.8	2344.6	2399.9	2506.6	2680.5	2914.9	3161.2	3412.8	3460.2	3702.6
17.5°	2309.0	2320.9	2334.0	2376.2	2480.3	2659.4	2926.8	3227.1	3507.7	3549.8	3847.4
20°	2347.2	2353.8	2355.1	2384.0	2476.3	2656.7	2950.5	3290.4	3597.2	3653.8	3991.0
22.5°	2395.9	2398.6	2395.9	2415.7	2501.3	2676.5	2982.1	3366.7	3697.3	3750.0	4136.0
25°	2623.8	2573.8	2510.5	2472.3	2543.4	2714.7	3029.5	3469.4	3806.6	3858.0	4276.9
27.5°	3331.1	3187.5	2961.0	2706.8	2630.4	2770.1	3095.4	3573.5	3917.2	3963.4	4428.3
30°	4479.8	4291.4	3906.8	3333.8	2909.7	2885.9	3181.0	3677.6	4034.5	4084.5	4590.4
32.5°	5630.9	5584.8	5141.0	4348.0	3537.9	3144.1	3323.3	3818.5	4189.9	4229.5	4809.0
35°	6795.3	6701.8	6338.3	5554.6	4506.1	3669.7	3560.3	4002.9	4394.1	4438.9	5127.8
37.5°	7687.1	7630.4	7405.2	6759.8	5654.6	4481.0	3966.0	4288.7	4690.5	4740.5	5536.1
40°	8474.7	8448.4	8372.0	7946.5	6938.8	5542.7	4596.9	4731.3	5101.4	5160.7	6036.6
42.5°	9093.8	9155.7	9199.2	9080.6	8262.6	6754.4	5445.2	5353.0	5674.4	5735.0	6674.2
45°	9727.4	9748.5	9923.6	10094.8	9577.2	8021.6	6401.4	6081.4	6387.0	6462.1	7438.1
47.5°	10134.4	10218.6	10526.9	10828.5	10682.3	9278.2	7428.9	6941.5	7212.8	7353.8	8294.3
50°	10164.6	10324.0	10748.2	11273.8	11487.1	10474.2	8545.8	7921.5	8209.9	8365.4	9208.4
52.5°	9660.2	9907.9	10565.1	11334.3	11921.8	11487.1	9701.0	8901.5	9271.6	9474.5	10156.7
55°	7406.4	7730.6	9876.2	11005.0	11938.9	12255.0	10825.8	9922.3	10454.5	10683.7	11181.5
57.5°	6452.9	6616.2	7764.8	10433.4	11621.4	12564.6	11842.7	10894.4	11741.3	12025.8	12149.6
60°	5368.8	5583.5	6512.1	9498.2	11190.7	12594.9	12741.1	12148.3	13136.2	13456.3	13037.4
62.5°	3648.6	3881.7	4805.1	7891.2	10602.0	12580.3	13477.3	13439.2	14686.5	15030.3	13789.5
65°	2260.2	2406.5	3015.0	6443.7	9778.7	12596.1	14247.9	15006.6	16322.5	16671.5	14371.7
67.5°	1786.1	1853.3	2170.7	4947.4	8360.1	12240.6	15017.2	16480.6	17862.3	18138.8	14549.6
70°	1200.0	1240.8	1579.3	3316.7	6219.7	10599.3	15002.6	17220.8	18655.2	18793.5	13901.5
72.5°	632.2	663.9	923.3	1535.9	3756.6	7534.3	12646.2	16335.6	17866.2	17658.1	11882.2
75°	316.1	368.8	621.7	779.8	1604.3	4201.8	7853.0	12879.3	14062.2	13256.1	7623.8
77.5°	239.7	289.8	513.7	513.7	558.5	1414.6	3325.9	7024.5	6479.2	5395.2	2237.9
80°	152.8	197.6	449.2	388.6	233.2	359.6	866.7	1967.9	1376.5	1047.1	407.0
82.5°	89.6	129.0	374.1	256.9	130.4	133.0	245.0	418.8	356.9	277.9	125.2
85°	35.6	84.3	256.9	101.4	51.4	32.9	73.8	89.6	73.8	55.4	31.6
87.5°	0.0	19.8	44.8	0.0	4.0	2.7	5.2	6.6	6.6	5.2	10.6
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°	3253.5	3253.5	3253.5	3253.5	3253.5	3253.5	3253.5	3253.5	3253.5	3253.5	3253.5
2.5°	3267.9	3270.6	3278.5	3279.8	3261.3	3237.7	3228.4	3224.4	3208.7	3207.3	3210.0
5°	3307.5	3319.3	3307.5	3273.2	3191.5	3076.9	2990.0	2918.9	2854.3	2834.5	2822.7
7.5°	3386.5	3398.3	3362.7	3228.4	3022.9	2795.1	2589.6	2444.7	2314.2	2265.6	2245.8
10°	3499.8	3515.5	3403.6	3132.3	2768.7	2402.5	2054.8	1809.8	1618.8	1541.1	1508.2
12.5°	3642.0	3648.6	3426.0	2986.0	2438.1	1915.2	1422.6	1160.4	990.6	927.3	907.5
15°	3798.8	3789.5	3428.6	2787.2	1987.6	1354.0	928.6	762.6	694.1	673.1	673.1
17.5°	3963.4	3925.2	3375.9	2500.0	1493.6	926.0	688.9	649.3	637.6	632.2	630.9
20°	4125.4	4039.8	3279.8	2124.6	1072.1	691.6	625.7	613.8	607.2	604.5	602.0
22.5°	4272.9	4126.8	3115.1	1688.6	778.5	611.2	591.4	580.9	569.0	563.8	562.4
25°	4416.5	4176.8	2883.3	1281.7	623.0	571.6	555.9	536.1	520.3	513.7	511.1
27.5°	4556.1	4208.3	2593.6	948.3	555.9	534.7	505.8	478.2	466.3	463.6	461.0
30°	4705.0	4218.9	2264.2	707.4	515.1	488.7	446.5	414.9	408.4	409.7	409.7
32.5°	4886.7	4234.7	1932.3	579.5	480.7	433.4	383.2	350.3	345.1	350.3	349.0
35°	5104.1	4266.4	1612.2	533.4	450.5	376.7	322.7	295.1	289.8	293.8	292.4
37.5°	5399.1	4317.7	1313.2	524.3	425.5	329.3	271.3	249.0	249.0	250.3	249.0
40°	5791.7	4454.6	1045.8	517.6	412.3	293.8	229.2	220.0	224.0	226.5	226.5
42.5°	6269.7	4745.8	865.4	509.7	397.8	277.9	208.1	204.2	210.7	213.4	213.4
45°	6805.9	5114.6	802.2	496.6	384.6	288.4	198.8	193.6	201.5	202.8	204.2
47.5°	7360.4	5475.5	794.3	482.1	371.5	304.2	196.3	184.4	193.6	195.0	196.3
50°	7921.5	5711.3	802.2	459.7	350.3	304.2	197.6	175.2	183.1	187.1	188.4
52.5°	8486.6	5819.3	796.9	410.9	313.4	285.9	197.6	167.3	175.2	177.8	177.8
55°	9034.6	5798.2	716.6	338.6	266.1	252.9	192.3	160.7	165.9	167.3	167.3
57.5°	9467.8	5504.5	567.7	263.4	216.0	210.7	175.2	152.8	156.7	155.4	155.4
60°	9694.4	4859.1	405.7	202.8	169.9	165.9	154.2	142.3	144.9	138.3	136.9
62.5°	9697.0	4005.5	271.3	160.7	135.7	131.7	131.7	127.7	125.2	111.9	108.0
65°	9490.3	3058.5	180.5	127.7	109.4	102.7	110.6	109.4	100.1	81.7	79.0
67.5°	9021.3	2004.7	136.9	100.1	84.3	80.4	88.3	92.2	85.6	68.5	67.1
70°	8057.2	1167.1	113.3	77.7	63.2	59.2	71.1	79.0	71.1	55.4	52.7
72.5°	6692.5	629.7	92.2	57.9	43.5	39.6	56.7	64.6	56.7	40.8	39.6
75°	4342.7	337.2	71.1	38.2	22.3	25.0	42.1	47.5	39.6	26.3	23.7
77.5°	1458.2	148.8	44.8	18.4	10.6	10.6	25.0	29.0	18.4	9.2	7.9
80°	325.3	61.9	18.4	7.9	4.0	4.0	5.2	5.2	2.7	0.0	0.0
82.5°	106.7	25.0	7.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.8	9.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.8	1.3	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)