

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: LUMARK

Report Number: P969899

Luminaire Tested: **NAV-SB6A-750-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-750-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21540.3 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

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

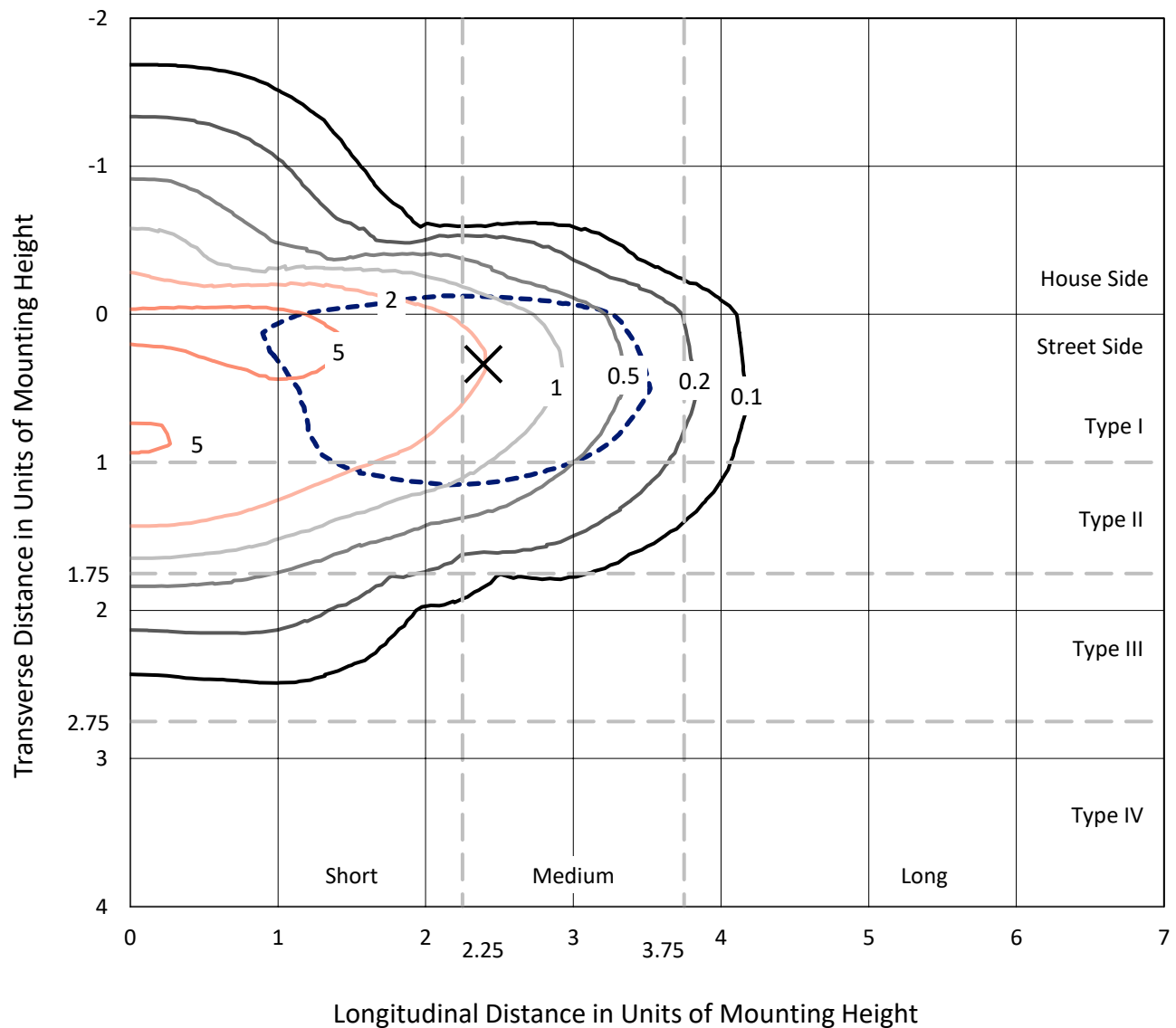


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Iso-Footcandle Lines of Horizontal Illumination

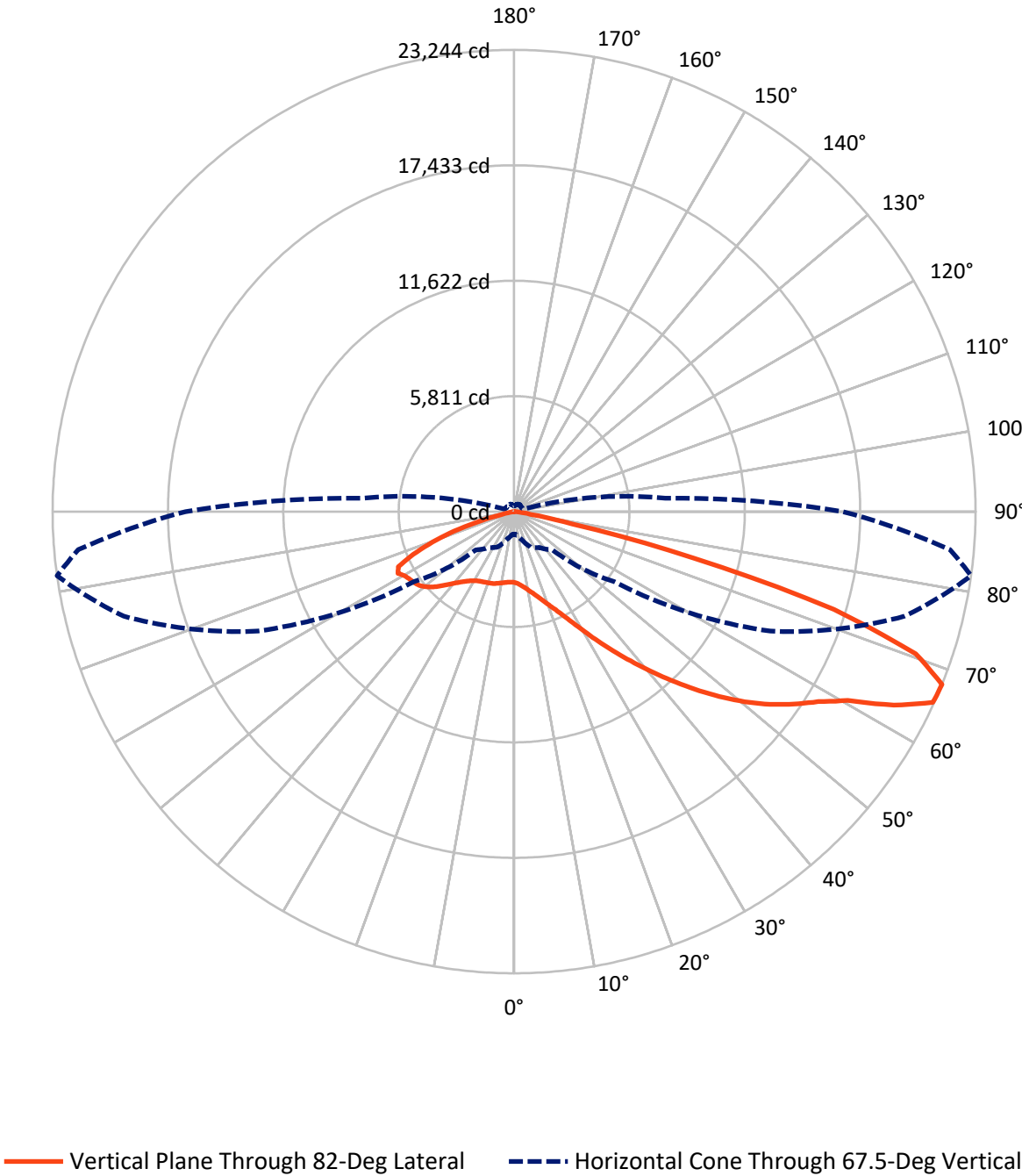
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3901.8	0.0	3901.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17638.5	0.0	17638.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	21540.3	0.0	21540.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.9	1.5
10°-20°	826.2	3.8
20°-30°	1323.3	6.1
30°-40°	2339.9	10.9
40°-50°	4099.8	19.0
50°-60°	5467.9	25.4
60°-70°	5090.4	23.6
70°-80°	1953.7	9.1
80°-90°	121.3	0.6
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°	21540.3	100.0
0°-180°	21540.3	100.0

Coefficient of Utilization



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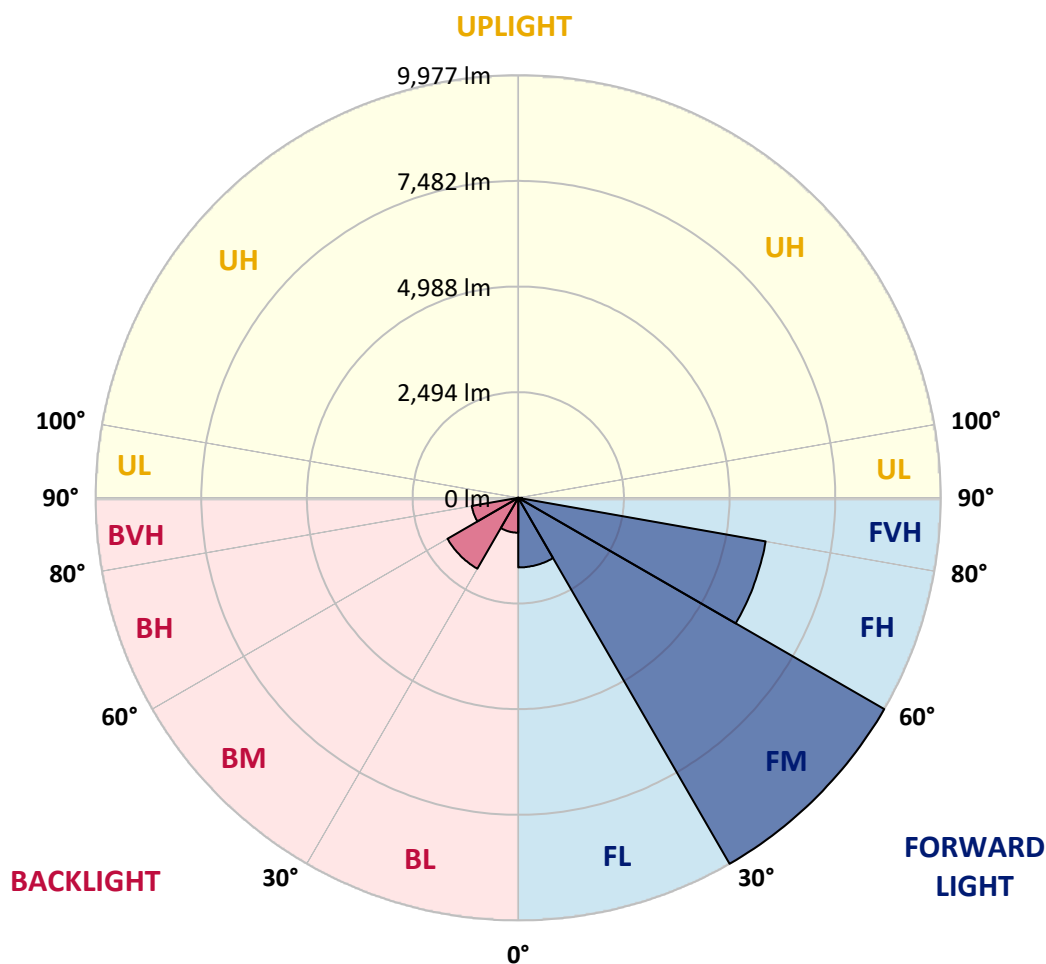
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1643.3	7.6			
FM	(30°-60°)	9976.6	46.3			
FH	(60°-80°)	5930.4	27.5			G3/7500
FVH	(80°-90°)	88.2	0.4			G1/100
BL	(0°-30°)	824.1	3.8	B2/1000		
BM	(30°-60°)	1931.0	9.0	B2/2500		
BH	(60°-80°)	1113.7	5.2	B3/2500		G3/2500
BVH	(80°-90°)	33.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3568.5	3568.5	3568.5	3568.5	3568.5	3568.5	3568.5	3568.5	3568.5	3568.5	3568.5
2.5°	3771.7	3793.4	3781.0	3774.8	3763.9	3748.4	3736.0	3697.3	3656.9	3630.6	3621.2
5°	3847.6	3869.4	3867.8	3874.0	3881.8	3886.4	3883.3	3840.0	3782.6	3737.6	3711.2
7.5°	3782.6	3807.4	3827.5	3858.5	3912.8	3970.1	3998.1	3988.8	3929.8	3867.8	3835.2
10°	3598.0	3624.3	3672.4	3745.3	3860.0	3984.2	4088.0	4136.1	4098.9	4030.7	3985.7
12.5°	3259.9	3286.3	3380.9	3539.0	3731.3	3947.0	4145.4	4274.1	4283.5	4215.2	4162.5
15°	2879.9	2906.3	3007.1	3205.6	3498.7	3844.6	4176.5	4419.9	4502.1	4443.2	4379.6
17.5°	2644.2	2667.5	2743.4	2903.2	3208.8	3639.9	4165.6	4575.0	4762.7	4716.1	4640.2
20°	2572.9	2593.0	2628.7	2740.3	2994.7	3427.4	4094.3	4720.8	5043.4	5017.0	4931.7
22.5°	2648.8	2667.5	2678.3	2727.9	2887.7	3287.8	4004.3	4869.7	5369.1	5372.1	5268.3
25°	2824.1	2842.7	2830.3	2861.3	2931.1	3244.4	3970.1	5044.9	5778.4	5812.6	5694.7
27.5°	3112.5	3114.2	3084.6	3083.1	3094.0	3309.5	4005.8	5232.6	6294.9	6358.5	6212.7
30°	3691.0	3667.8	3554.6	3432.0	3376.2	3504.9	4105.1	5454.3	6904.4	7017.6	6834.6
32.5°	4582.8	4548.6	4340.9	4047.7	3753.0	3819.8	4283.5	5707.1	7568.2	7772.9	7549.5
35°	5550.5	5541.2	5324.1	4888.3	4373.4	4267.9	4573.4	6039.0	8292.5	8618.1	8352.9
37.5°	6450.0	6445.3	6321.3	5808.0	5181.4	4892.9	5038.7	6473.3	9067.9	9539.3	9226.0
40°	7272.0	7285.9	7161.9	6702.8	6071.6	5694.7	5671.4	7009.9	9930.1	10542.7	10170.5
42.5°	7982.2	7997.8	7872.1	7532.5	6950.9	6581.8	6448.5	7667.4	10772.2	11620.5	11180.1
45°	8464.6	8560.7	8542.1	8270.7	7853.6	7470.4	7382.0	8492.4	11732.2	12763.5	12247.1
47.5°	8601.0	8689.4	8829.0	8866.2	8611.8	8235.1	8340.5	9486.6	12703.0	13908.0	13320.3
50°	8264.5	8346.7	8636.6	9022.9	9199.7	9083.3	9272.6	10552.0	13697.2	15049.5	14373.3
52.5°	7600.7	7684.4	8050.5	8661.6	9382.6	9748.7	10207.7	11602.0	14660.2	16130.4	15370.5
55°	6640.8	6729.1	7199.1	7890.8	9033.7	10023.2	10987.8	12650.3	15542.7	17102.8	16270.0
57.5°	5334.9	5400.1	5888.6	6856.3	8155.9	9750.2	11563.1	13794.9	16373.9	18058.1	17161.8
60°	3477.0	3534.4	4102.0	5181.4	6701.2	8838.3	11677.9	15071.2	17478.1	19300.3	18363.6
62.5°	2312.3	2351.0	2687.7	3480.1	4719.2	7087.4	11006.4	16090.1	19097.2	21462.3	20424.8
65°	1586.5	1625.3	1961.8	2513.9	3049.0	4688.2	9075.6	15955.1	20564.3	23179.0	21952.3
67.5°	1132.1	1164.7	1450.1	1971.2	2206.8	2723.3	6152.3	14230.6	20353.4	23244.1	22034.5
70°	811.1	829.7	1065.4	1535.3	1754.0	1636.1	3421.1	10883.9	17820.9	21463.8	20356.5
72.5°	567.6	573.8	739.7	1169.3	1412.9	1194.1	1628.4	7256.5	13478.4	16846.9	15781.5
75°	384.6	392.4	497.8	857.6	1133.6	911.9	862.2	3891.1	7912.5	9325.2	8359.1
77.5°	235.7	238.8	321.0	586.2	848.3	694.7	555.2	1648.5	3061.4	3005.5	2562.0
80°	133.4	133.4	204.7	364.5	578.5	448.2	389.3	701.0	969.2	851.5	750.6
82.5°	74.4	76.0	148.9	226.4	383.0	265.2	214.0	324.1	418.7	370.6	322.6
85°	31.1	34.1	91.5	107.0	183.0	131.8	86.8	136.4	155.1	138.1	100.8
87.5°	3.1	4.6	27.9	20.2	21.7	26.3	12.4	26.3	21.7	21.7	15.5
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°	3568.5	3568.5	3568.5	3568.5	3568.5	3568.5	3568.5	3568.5	3568.5	3568.5	3568.5
2.5°	3591.8	3568.5	3509.6	3441.3	3351.4	3308.0	3249.0	3208.8	3174.6	3177.7	3146.6
5°	3661.6	3602.7	3470.9	3306.4	3101.8	2955.9	2800.8	2693.8	2607.0	2588.3	2546.5
7.5°	3757.8	3664.7	3433.5	3137.4	2791.5	2529.4	2295.3	2144.8	2037.8	2003.7	1969.5
10°	3881.8	3746.9	3385.5	2924.9	2427.1	2093.7	1842.4	1724.6	1651.7	1626.9	1608.2
12.5°	4026.0	3841.5	3321.9	2665.9	2051.7	1730.7	1571.0	1512.1	1488.8	1481.0	1476.4
15°	4207.4	3959.4	3225.8	2358.8	1733.9	1509.0	1440.7	1432.9	1436.1	1432.9	1431.4
17.5°	4423.1	4088.0	3069.2	2042.5	1519.9	1395.7	1370.9	1377.2	1384.9	1383.3	1380.3
20°	4658.7	4215.2	2869.1	1761.8	1374.0	1315.1	1301.1	1307.4	1313.5	1310.5	1308.9
22.5°	4927.1	4351.7	2647.3	1543.1	1276.3	1240.7	1225.2	1226.7	1226.7	1220.6	1217.4
25°	5248.1	4502.1	2414.7	1388.1	1201.9	1174.0	1155.4	1149.2	1139.9	1121.2	1118.2
27.5°	5631.1	4661.9	2191.3	1279.4	1143.0	1116.6	1094.9	1079.4	1056.2	1025.1	1022.0
30°	6062.3	4855.7	2002.1	1211.2	1096.4	1070.1	1045.3	1022.0	987.9	949.1	946.0
32.5°	6569.4	5063.5	1864.2	1166.2	1054.6	1026.6	997.2	969.2	932.0	893.3	894.8
35°	7174.3	5314.7	1783.5	1135.2	1022.0	984.8	952.2	921.2	893.3	859.2	856.1
37.5°	7830.3	5581.5	1758.7	1119.7	1000.3	942.9	905.7	884.0	880.9	860.7	859.2
40°	8548.3	5897.8	1777.2	1110.4	977.0	902.6	862.2	857.6	865.4	829.7	831.3
42.5°	9308.2	6273.2	1808.3	1099.5	944.4	862.2	823.5	823.5	817.3	767.6	767.6
45°	10130.2	6705.9	1839.3	1073.2	905.7	821.9	792.5	781.7	755.2	707.1	705.6
47.5°	10958.3	7146.3	1862.5	1025.1	859.2	787.8	761.5	736.7	697.9	654.5	652.9
50°	11744.7	7541.7	1837.7	953.8	806.5	755.2	727.3	693.2	651.4	621.9	617.3
52.5°	12447.2	7884.5	1732.4	870.0	750.6	721.2	696.3	660.6	626.6	595.5	592.4
55°	13058.2	8162.2	1546.2	790.9	701.0	691.7	666.9	621.9	575.3	549.0	545.9
57.5°	13644.4	8373.0	1313.5	725.8	656.0	659.1	621.9	581.6	538.1	510.2	507.2
60°	14424.5	8655.3	1077.9	665.3	607.9	617.3	576.9	547.5	493.1	457.5	452.8
62.5°	15671.3	9094.2	856.1	590.9	552.1	555.2	538.1	502.5	437.4	395.4	392.4
65°	16660.8	8932.9	674.7	510.2	488.5	493.1	493.1	454.4	384.6	336.5	331.9
67.5°	16549.1	7648.8	538.1	431.1	428.0	431.1	442.0	409.4	341.2	302.4	296.2
70°	15244.9	6084.0	431.1	358.2	372.2	364.5	395.4	373.7	307.1	268.3	263.6
72.5°	12439.4	4382.7	328.8	296.2	285.4	297.8	356.7	336.5	255.8	212.5	207.8
75°	7268.9	2338.6	245.1	234.2	206.2	248.2	316.4	286.9	195.4	156.6	152.0
77.5°	2366.6	815.8	179.9	172.1	153.5	200.1	269.9	241.9	159.7	124.0	119.4
80°	634.3	246.6	122.5	113.3	99.2	148.9	214.0	192.3	114.8	80.7	79.1
82.5°	254.3	103.9	71.3	63.6	54.3	102.4	169.0	155.1	85.3	51.1	51.1
85°	82.2	34.1	26.3	20.2	24.8	63.6	100.8	105.5	60.5	26.3	20.2
87.5°	10.9	4.6	4.6	6.3	4.6	10.9	31.1	29.4	17.0	3.1	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)