

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: P970537

Luminaire Tested: **NAV-SB6B-835-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-835-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33017.3 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 220.4
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

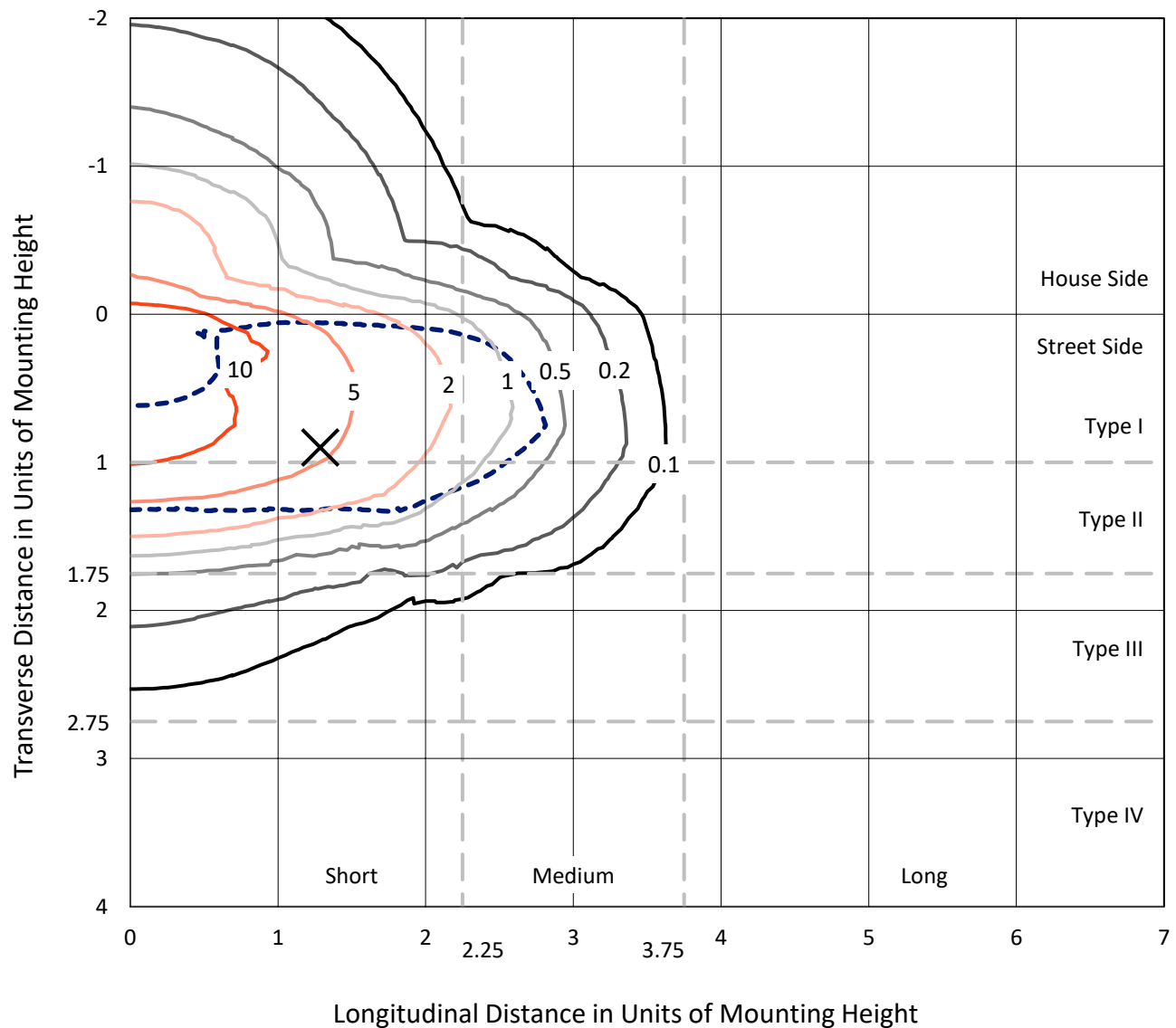


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

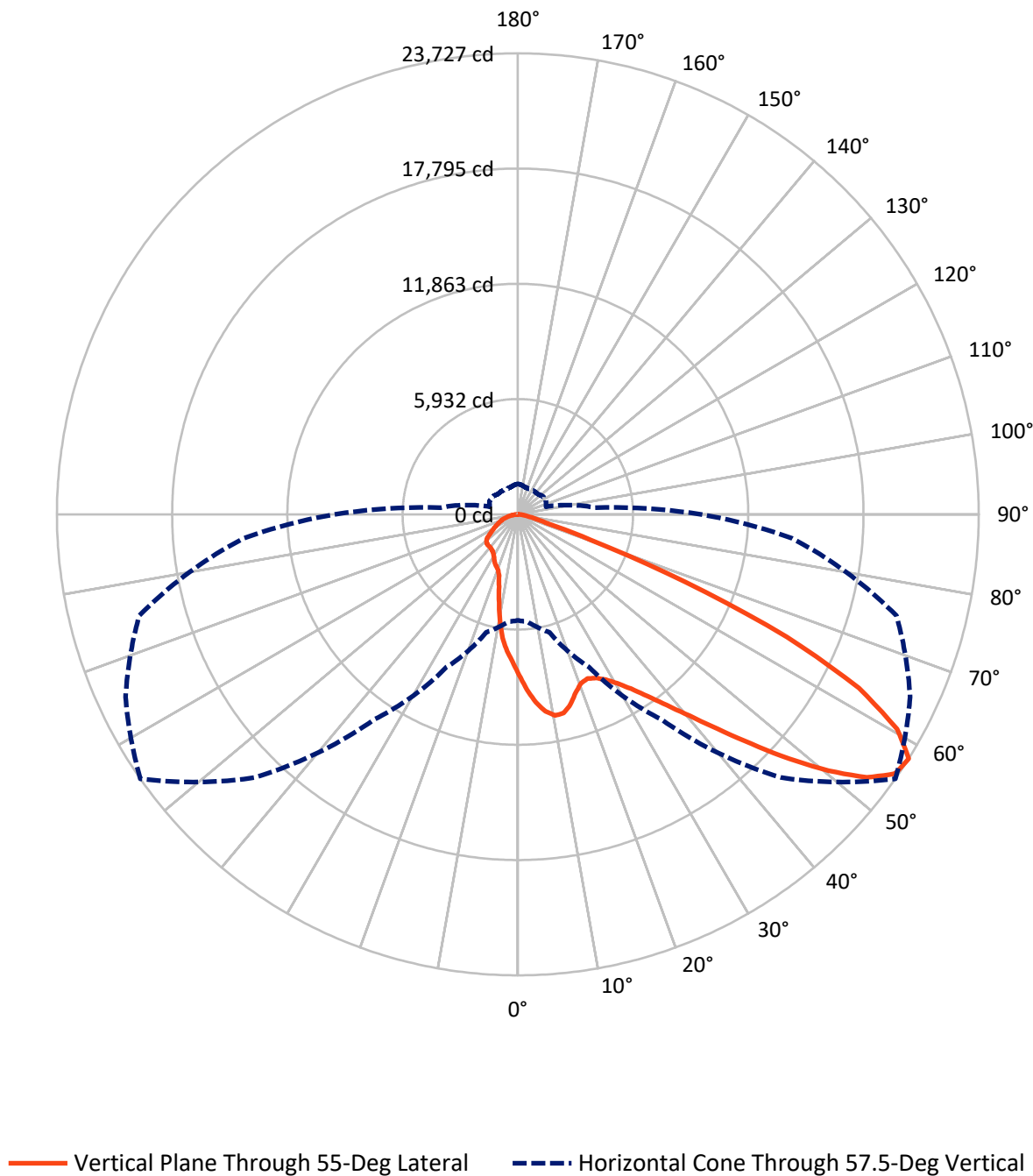


Based on 25 foot mounting height. Maximum calculated value = 16 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5974.3	0.0	5974.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	27043.0	0.0	27043.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	33017.3	0.0	33017.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.7	2.3
10°-20°	1937.7	5.9
20°-30°	3092.0	9.4
30°-40°	4895.4	14.8
40°-50°	7492.9	22.7
50°-60°	8025.6	24.3
60°-70°	5048.9	15.3
70°-80°	1493.1	4.5
80°-90°	264.0	0.8
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°	33017.3	100.0
0°-180°	33017.3	100.0

Coefficient of Utilization



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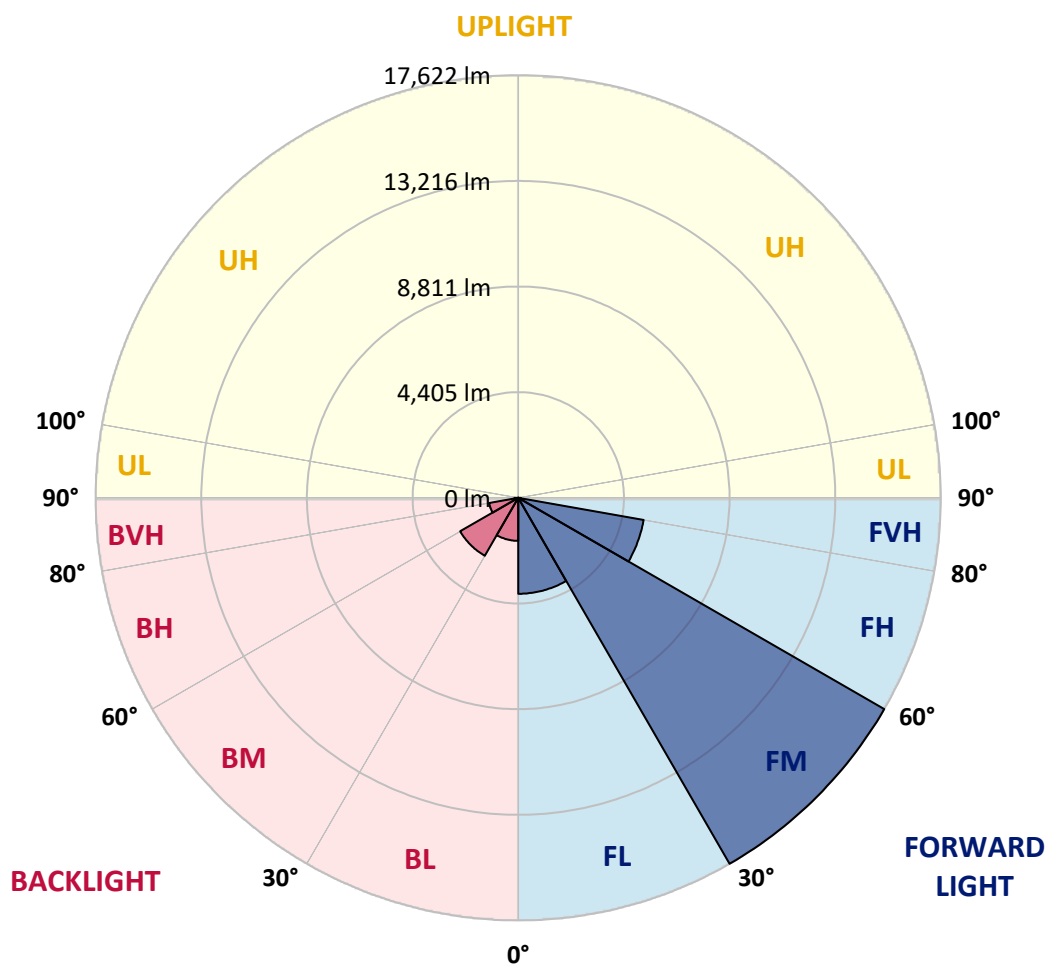
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4001.7	12.1			
FM	(30°-60°)	17621.6	53.4			
FH	(60°-80°)	5308.2	16.1			G3/7500
FVH	(80°-90°)	111.5	0.3			G2/225
BL	(0°-30°)	1795.7	5.4	B3/2500		
BM	(30°-60°)	2792.4	8.5	B3/5000		
BH	(60°-80°)	1233.8	3.7	B3/2500		G3/2500
BVH	(80°-90°)	152.5	0.5			G2/225
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8273.1	8273.1	8273.1	8273.1	8273.1	8273.1	8273.1	8273.1	8273.1	8273.1	8273.1
2.5°	9491.7	9484.9	9522.5	9394.4	9307.4	9189.6	9034.3	8836.3	8623.0	8397.6	8300.3
5°	10346.9	10287.1	10326.4	10230.8	10135.2	9957.7	9727.2	9404.7	9010.5	8561.5	8322.6
7.5°	10212.1	10171.1	10271.7	10357.1	10428.8	10406.6	10237.6	9899.7	9391.0	8739.0	8392.5
10°	9124.8	9078.7	9220.4	9515.7	9949.2	10326.4	10531.3	10321.2	9780.2	8933.6	8460.9
12.5°	8165.6	8143.3	8237.2	8476.1	8957.5	9681.2	10493.6	10689.9	10184.7	9164.0	8553.0
15°	7755.9	7728.6	7788.4	7909.5	8216.7	8891.0	10152.3	10942.6	10582.4	9430.3	8699.8
17.5°	7665.5	7634.7	7660.3	7723.5	7921.4	8435.2	9636.8	11067.1	10997.2	9727.2	8822.7
20°	7832.7	7807.1	7810.5	7807.1	7945.4	8353.2	9278.4	11019.4	11359.0	10000.4	8942.1
22.5°	8237.2	8194.6	8196.2	8105.8	8180.9	8496.6	9184.5	10891.3	11681.6	10239.3	9032.6
25°	8896.1	8819.2	8834.6	8604.2	8583.8	8817.6	9331.3	10792.3	12002.5	10430.5	9049.7
27.5°	9797.3	9710.2	9664.1	9321.0	9157.2	9273.3	9630.0	10826.5	12306.4	10596.0	9007.0
30°	10923.8	10818.0	10724.1	10237.6	9940.7	9898.0	10094.3	11051.8	12664.8	10770.2	8933.6
32.5°	12304.6	12181.7	12011.1	11365.8	10947.7	10724.1	10695.1	11452.9	13084.6	10992.1	8896.1
35°	13948.3	13787.9	13545.5	12710.8	12181.7	11724.3	11487.1	12031.6	13659.9	11326.6	8938.7
37.5°	15641.5	15460.6	15238.7	14245.3	13595.0	12920.8	12453.1	12816.7	14426.3	11780.6	9051.4
40°	17203.3	17000.1	16793.6	15909.4	15211.4	14398.9	13636.0	13810.0	15363.3	12323.4	9242.5
42.5°	18125.0	17974.7	17896.2	17418.3	16879.0	16054.6	15107.3	14987.8	16416.4	12948.1	9461.1
45°	18084.0	18022.6	18264.9	18462.9	18334.9	17877.4	16831.2	16290.1	17473.0	13489.2	9662.5
47.5°	17117.9	17158.9	17699.9	18812.8	19302.7	19541.6	18794.0	17568.5	18391.3	13893.7	9752.9
50°	14489.4	14523.5	15776.4	18176.1	19551.9	20898.6	20741.6	18816.2	19103.0	14141.2	9732.4
52.5°	12408.8	12430.9	12968.6	16288.4	18729.2	21581.3	22496.2	19992.2	19623.5	14209.5	9618.1
55°	9346.7	9423.4	10026.0	12779.1	16588.8	21040.3	23564.6	21204.1	19953.0	14216.2	9498.6
57.5°	5460.2	5543.8	6288.0	8674.2	12893.5	19154.2	23726.8	22279.4	20176.6	14161.7	9426.9
60°	2674.6	2710.5	3034.7	4559.0	7950.5	15520.3	22422.8	22800.0	20301.1	14132.7	9423.4
62.5°	1802.5	1797.3	1811.0	2249.6	3917.2	9971.4	19705.5	21888.6	20234.6	14021.7	9389.3
65°	1549.8	1531.0	1479.8	1578.8	2029.4	4560.6	15225.0	19167.8	19727.7	13743.5	9155.5
67.5°	1339.9	1341.6	1343.3	1312.5	1449.1	2104.5	9304.0	15098.8	17908.2	12425.8	8254.3
70°	1109.5	1124.8	1131.6	1131.6	1181.1	1380.9	3971.8	10348.6	14125.8	9742.6	6648.2
72.5°	1010.4	978.1	981.4	964.3	964.3	1051.4	1599.3	5866.4	8899.5	5480.7	4057.2
75°	824.4	844.9	848.3	836.4	797.1	802.2	949.0	2461.2	3808.0	2273.6	2005.5
77.5°	711.8	711.8	718.6	710.0	679.4	600.9	633.2	954.2	1295.5	931.9	1001.9
80°	571.7	570.1	599.1	616.1	568.4	443.8	404.6	527.5	575.2	409.7	520.6
82.5°	278.2	295.3	411.3	469.3	431.8	320.9	247.5	327.7	307.2	180.9	233.8
85°	162.2	153.6	184.3	261.2	247.5	177.5	119.5	170.7	160.4	92.1	93.9
87.5°	51.2	47.8	37.5	88.8	71.6	49.5	32.4	49.5	44.4	20.5	20.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8273.1	8273.1	8273.1	8273.1	8273.1	8273.1	8273.1	8273.1	8273.1	8273.1
2.5°	8179.2	7977.8	7778.1	7595.5	7484.6	7412.8	7341.2	7260.9	7230.1	7184.1
5°	8097.3	7708.1	7361.7	7062.9	6791.5	6578.1	6363.1	6189.1	6110.5	6163.4
7.5°	8049.4	7486.2	6952.0	6404.1	5876.6	5455.0	5088.1	4830.3	4714.3	4743.3
10°	8006.8	7235.3	6421.1	5555.8	4797.9	4275.7	3900.1	3703.8	3630.4	3645.8
12.5°	7967.5	6953.7	5781.1	4642.6	3837.0	3492.2	3384.7	3386.4	3400.0	3410.3
15°	7960.7	6614.0	5065.9	3843.9	3318.1	3295.9	3412.0	3485.4	3524.7	3536.6
17.5°	7950.5	6207.8	4337.1	3299.4	3191.7	3342.0	3449.5	3497.3	3528.0	3529.8
20°	7909.5	5692.3	3664.6	3039.8	3164.5	3294.2	3360.8	3398.3	3423.9	3432.4
22.5°	7783.2	5118.8	3140.6	2923.8	3055.2	3159.4	3237.9	3280.5	3295.9	3306.1
25°	7556.2	4477.1	2778.8	2812.9	2903.3	3034.7	3098.0	3106.5	3101.3	3116.7
27.5°	7259.2	3789.2	2553.5	2662.6	2778.8	2891.4	2925.6	2920.4	2910.2	2927.2
30°	6900.8	3171.4	2410.1	2493.7	2652.4	2754.9	2785.5	2773.6	2753.1	2771.9
32.5°	6521.9	2666.1	2292.3	2376.0	2548.4	2649.0	2679.8	2667.8	2652.4	2667.8
35°	6168.6	2312.8	2183.0	2297.4	2466.4	2565.4	2604.6	2606.4	2606.4	2625.1
37.5°	5844.2	2106.3	2092.5	2247.9	2410.1	2498.8	2555.1	2558.6	2485.1	2490.2
40°	5543.8	2019.1	2051.6	2215.4	2355.4	2440.8	2444.2	2253.1	2118.2	2114.8
42.5°	5298.0	2002.1	2063.5	2212.1	2316.2	2319.6	2078.9	1930.5	1892.9	1894.6
45°	5067.6	1997.0	2090.9	2212.1	2258.2	2003.9	1841.7	1802.5	1805.8	1819.5
47.5°	4809.9	1976.5	2096.0	2181.3	2090.9	1782.0	1734.2	1717.1	1710.2	1713.7
50°	4528.2	1903.1	2031.1	2119.9	1804.1	1686.3	1626.6	1621.6	1630.1	1635.2
52.5°	4231.3	1783.6	1920.2	2009.0	1672.7	1602.7	1536.2	1548.1	1585.7	1597.6
55°	4036.7	1643.7	1773.5	1787.1	1580.6	1524.2	1467.9	1495.2	1565.2	1587.3
57.5°	3985.5	1495.2	1606.2	1590.8	1462.8	1455.9	1421.8	1445.7	1534.4	1566.9
60°	3970.1	1362.0	1442.3	1430.3	1348.4	1380.9	1372.3	1384.3	1415.0	1425.3
62.5°	3850.6	1256.2	1295.5	1278.4	1246.0	1302.4	1322.8	1297.2	1321.1	1333.0
65°	3546.8	1170.9	1152.1	1140.2	1153.8	1205.0	1246.0	1194.7	1217.0	1251.1
67.5°	3045.0	1054.8	1003.6	1017.3	1060.0	1087.2	1140.2	1082.1	1101.0	1159.0
70°	2463.0	908.0	861.9	901.2	942.2	998.5	1007.1	967.8	1012.2	1077.0
72.5°	1742.7	759.5	727.1	807.3	821.0	894.4	875.7	856.8	918.3	940.4
75°	1208.5	612.7	594.0	655.4	704.9	768.0	754.4	776.6	906.3	916.6
77.5°	764.6	476.2	464.2	503.5	571.7	641.8	664.0	916.6	1548.1	1609.6
80°	443.8	355.1	341.3	372.1	431.8	496.7	640.1	1124.8	1020.7	1008.7
82.5°	247.5	244.1	227.0	235.5	288.4	358.4	904.7	792.0	643.5	664.0
85°	116.0	143.4	122.9	117.8	162.2	419.8	604.2	452.3	300.4	293.6
87.5°	30.7	27.3	27.3	30.7	68.3	361.8	240.7	192.9	114.4	110.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)