

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: P970413

Luminaire Tested: **NAV-SB6B-750-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970413
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-750-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37660.6 lumens
Efficiency: N/A
Efficacy: 170.9 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

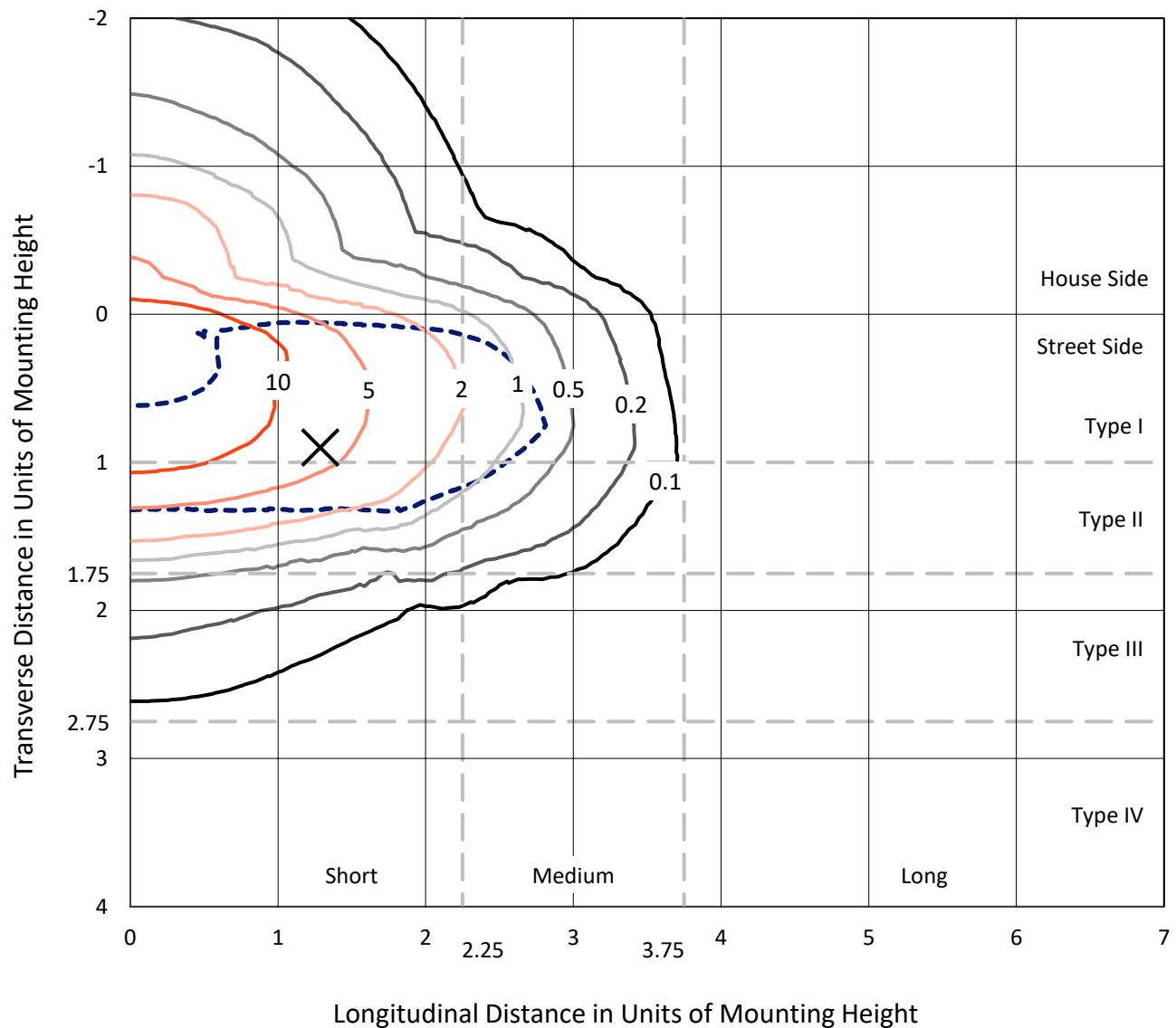


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Iso-Footcandle Lines of Horizontal Illumination

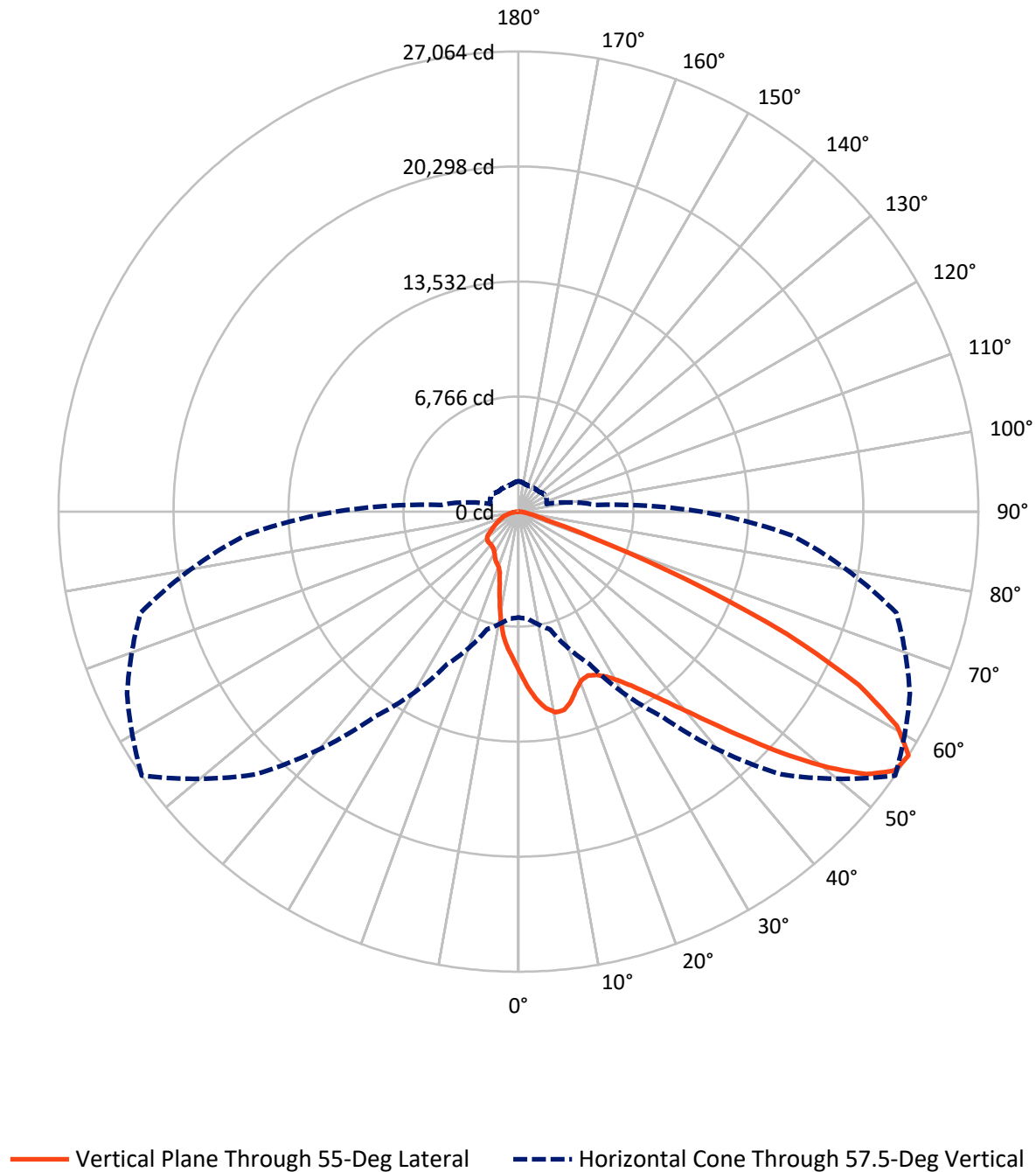
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 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	6814.5	0.0	6814.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	30846.1	0.0	30846.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	37660.6	0.0	37660.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	875.6	2.3
10°-20°	2210.2	5.9
20°-30°	3526.8	9.4
30°-40°	5583.8	14.8
40°-50°	8546.6	22.7
50°-60°	9154.3	24.3
60°-70°	5759.0	15.3
70°-80°	1703.0	4.5
80°-90°	301.1	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°	37660.6	100.0
0°-180°	37660.6	100.0

Coefficient of Utilization



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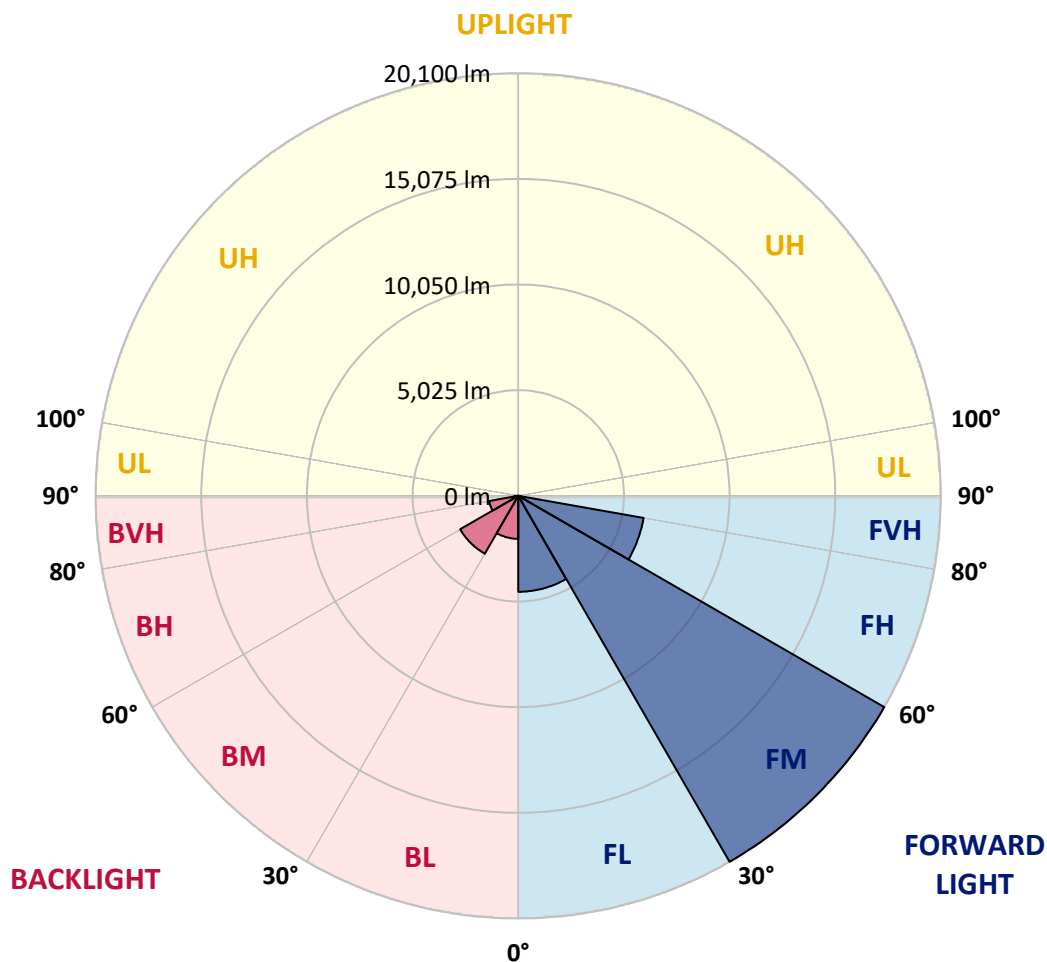
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4564.5	12.1			
FM	(30°-60°)	20099.7	53.4			
FH	(60°-80°)	6054.7	16.1			G3/7500
FVH	(80°-90°)	127.2	0.3			G2/225
BL	(0°-30°)	2048.2	5.4	B3/2500		
BM	(30°-60°)	3185.0	8.5	B3/5000		
BH	(60°-80°)	1407.3	3.7	B3/2500		G3/2500
BVH	(80°-90°)	173.9	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°	9436.6	9436.6	9436.6	9436.6	9436.6	9436.6	9436.6	9436.6	9436.6	9436.6	9436.6
2.5°	10826.6	10818.8	10861.6	10715.7	10616.3	10482.0	10304.8	10079.0	9835.6	9578.6	9467.6
5°	11802.0	11733.8	11778.6	11669.6	11560.6	11358.1	11095.2	10727.2	10277.6	9765.5	9492.9
7.5°	11648.2	11601.5	11716.3	11813.6	11895.4	11870.1	11677.4	11291.9	10711.8	9968.0	9572.8
10°	10408.0	10355.5	10517.0	10853.8	11348.4	11778.6	12012.2	11772.7	11155.6	10189.9	9650.7
12.5°	9313.9	9288.6	9395.7	9668.2	10217.2	11042.7	11969.4	12193.3	11617.0	10452.7	9755.8
15°	8846.6	8815.4	8883.6	9021.8	9372.3	10141.2	11580.0	12481.4	12070.6	10756.5	9923.2
17.5°	8743.5	8708.4	8737.6	8809.6	9035.5	9621.5	10992.1	12623.6	12543.7	11095.2	10063.4
20°	8934.2	8905.0	8908.9	8905.0	9062.7	9528.0	10583.2	12569.1	12956.5	11406.7	10199.7
22.5°	9395.7	9347.0	9348.9	9245.7	9331.4	9691.6	10476.1	12423.0	13324.4	11679.4	10302.9
25°	10147.1	10059.6	10077.1	9814.2	9790.8	10057.6	10643.6	12310.1	13690.4	11897.4	10322.4
27.5°	11175.1	11075.7	11023.3	10631.9	10445.0	10577.4	10984.3	12349.0	14037.0	12086.2	10273.7
30°	12460.0	12339.3	12232.2	11677.4	11338.7	11290.0	11513.8	12606.1	14445.8	12284.8	10189.9
32.5°	14035.0	13894.9	13700.2	12964.3	12487.3	12232.2	12199.1	13063.5	14924.7	12537.9	10147.1
35°	15909.8	15726.9	15450.4	14498.4	13894.9	13373.1	13102.5	13723.5	15580.8	12919.5	10195.8
37.5°	17841.1	17634.8	17381.7	16248.6	15506.9	14737.9	14204.4	14619.1	16455.0	13437.3	10324.3
40°	19622.6	19390.8	19155.3	18146.8	17350.6	16423.9	15553.6	15752.2	17523.8	14056.4	10542.3
42.5°	20673.8	20502.6	20413.0	19867.9	19252.7	18312.3	17231.8	17095.6	18725.1	14769.0	10791.5
45°	20627.2	20557.1	20833.5	21059.3	20913.4	20391.6	19198.1	18581.0	19930.2	15386.2	11021.3
47.5°	19525.2	19572.0	20189.1	21458.5	22017.2	22289.8	21437.1	20039.2	20977.5	15847.6	11124.4
50°	16527.0	16565.9	17995.0	20732.3	22301.4	23837.6	23658.4	21462.4	21789.4	16129.9	11101.1
52.5°	14153.8	14179.1	14792.4	18579.0	21363.0	24616.3	25659.8	22803.8	22383.2	16207.7	10970.7
55°	10661.1	10748.7	11435.9	14576.2	18921.7	23999.1	26878.6	24186.0	22759.0	16215.5	10834.4
57.5°	6228.1	6323.4	7172.3	9894.0	14706.7	21847.9	27063.5	25412.6	23014.0	16153.3	10752.6
60°	3050.7	3091.6	3461.5	5200.1	9068.6	17703.0	25576.1	26006.4	23156.2	16120.2	10748.7
62.5°	2055.9	2050.1	2065.7	2566.0	4468.1	11373.6	22476.7	24966.7	23080.2	15993.6	10709.8
65°	1767.7	1746.4	1688.0	1800.8	2314.9	5202.1	17366.2	21863.5	22502.0	15676.2	10443.0
67.5°	1528.3	1530.2	1532.2	1497.1	1652.9	2400.5	10612.4	17222.0	20426.6	14173.3	9415.1
70°	1265.5	1283.0	1290.8	1290.8	1347.3	1575.0	4530.4	11803.9	16112.4	11112.7	7583.1
72.5°	1152.5	1115.6	1119.5	1100.0	1100.0	1199.2	1824.2	6691.4	10151.0	6251.4	4627.8
75°	940.3	963.7	967.6	954.0	909.2	915.0	1082.5	2807.4	4343.4	2593.2	2287.6
77.5°	811.8	811.8	819.6	809.9	774.9	685.3	722.3	1088.3	1477.6	1063.0	1142.8
80°	652.2	650.3	683.4	702.8	648.3	506.1	461.5	601.6	656.1	467.3	593.8
82.5°	317.3	336.8	469.2	535.4	492.5	366.0	282.3	373.8	350.4	206.3	266.7
85°	184.9	175.2	210.2	297.9	282.3	202.4	136.3	194.6	183.0	105.2	107.1
87.5°	58.4	54.5	42.8	101.3	81.8	56.5	37.0	56.5	50.6	23.4	23.4
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°	9436.6	9436.6	9436.6	9436.6	9436.6	9436.6	9436.6	9436.6	9436.6	9436.6
2.5°	9329.4	9099.7	8871.9	8663.6	8537.0	8455.3	8373.5	8282.0	8246.9	8194.4
5°	9236.0	8792.1	8396.9	8056.2	7746.6	7503.3	7257.9	7059.4	6969.8	7030.2
7.5°	9181.4	8539.0	7929.6	7304.7	6703.1	6222.3	5803.7	5509.7	5377.3	5410.4
10°	9132.8	8252.8	7324.1	6337.1	5472.7	4877.0	4448.6	4224.7	4141.0	4158.5
12.5°	9088.1	7931.6	6594.0	5295.5	4376.5	3983.4	3860.7	3862.6	3878.2	3889.9
15°	9080.3	7544.1	5778.3	4384.3	3784.7	3759.4	3891.8	3975.6	4020.3	4033.9
17.5°	9068.6	7080.8	4947.1	3763.3	3640.7	3812.0	3934.7	3989.2	4024.2	4026.1
20°	9021.8	6492.9	4180.0	3467.4	3609.5	3757.4	3833.4	3876.2	3905.5	3915.2
22.5°	8877.7	5838.7	3582.3	3335.0	3484.9	3603.7	3693.2	3741.9	3759.4	3771.1
25°	8618.8	5106.7	3169.5	3208.5	3311.7	3461.5	3533.6	3543.3	3537.5	3555.0
27.5°	8280.1	4322.1	2912.5	3037.2	3169.5	3298.0	3337.0	3331.1	3319.5	3338.9
30°	7871.2	3617.3	2748.9	2844.4	3025.5	3142.2	3177.3	3163.7	3140.3	3161.7
32.5°	7439.0	3041.1	2614.7	2710.1	2906.7	3021.6	3056.5	3042.9	3025.5	3042.9
35°	7036.0	2638.0	2490.0	2620.5	2813.2	2926.2	2971.0	2972.9	2972.9	2994.3
37.5°	6666.1	2402.4	2386.9	2564.0	2748.9	2850.2	2914.5	2918.4	2834.6	2840.5
40°	6323.4	2303.2	2340.2	2527.0	2686.7	2784.0	2787.9	2569.9	2416.0	2412.1
42.5°	6043.1	2283.7	2353.8	2523.1	2641.9	2645.8	2371.3	2201.9	2159.1	2161.0
45°	5780.3	2277.9	2385.0	2523.1	2575.7	2285.6	2100.6	2055.9	2059.8	2075.4
47.5°	5486.3	2254.5	2390.8	2488.1	2385.0	2032.6	1978.0	1958.6	1950.8	1954.7
50°	5165.1	2170.7	2316.8	2418.0	2057.9	1923.5	1855.4	1849.5	1859.2	1865.1
52.5°	4826.3	2034.5	2190.2	2291.5	1907.9	1828.1	1752.2	1765.8	1808.6	1822.2
55°	4604.4	1874.8	2022.8	2038.4	1802.8	1738.6	1674.3	1705.5	1785.2	1810.6
57.5°	4546.0	1705.5	1832.0	1814.5	1668.5	1660.7	1621.8	1649.0	1750.3	1787.2
60°	4528.4	1553.6	1645.1	1631.5	1538.0	1575.0	1565.3	1578.9	1614.0	1625.6
62.5°	4392.1	1432.9	1477.6	1458.2	1421.3	1485.4	1508.8	1479.6	1506.9	1520.5
65°	4045.6	1335.6	1314.2	1300.5	1316.1	1374.5	1421.3	1362.8	1388.2	1427.1
67.5°	3473.2	1203.1	1144.7	1160.3	1209.0	1240.1	1300.5	1234.3	1255.7	1321.9
70°	2809.3	1035.8	983.2	1028.0	1074.7	1138.9	1148.6	1103.9	1154.5	1228.5
72.5°	1987.8	866.3	829.3	920.9	936.4	1020.2	998.8	977.3	1047.4	1072.8
75°	1378.4	698.9	677.5	747.6	804.0	876.1	860.5	885.8	1033.8	1045.5
77.5°	872.2	543.1	529.5	574.3	652.2	732.1	757.4	1045.5	1765.8	1835.9
80°	506.1	405.0	389.4	424.5	492.5	566.5	730.1	1283.0	1164.2	1150.6
82.5°	282.3	278.4	258.9	268.7	329.0	408.9	1031.9	903.3	734.0	757.4
85°	132.4	163.5	140.2	134.4	184.9	479.0	689.2	515.9	342.7	334.9
87.5°	35.1	31.2	31.2	35.1	77.9	412.8	274.5	220.0	130.5	126.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)