

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: P968677

Luminaire Tested: **NAV-SB5C-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968677
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-SB5C-722-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32578.6 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

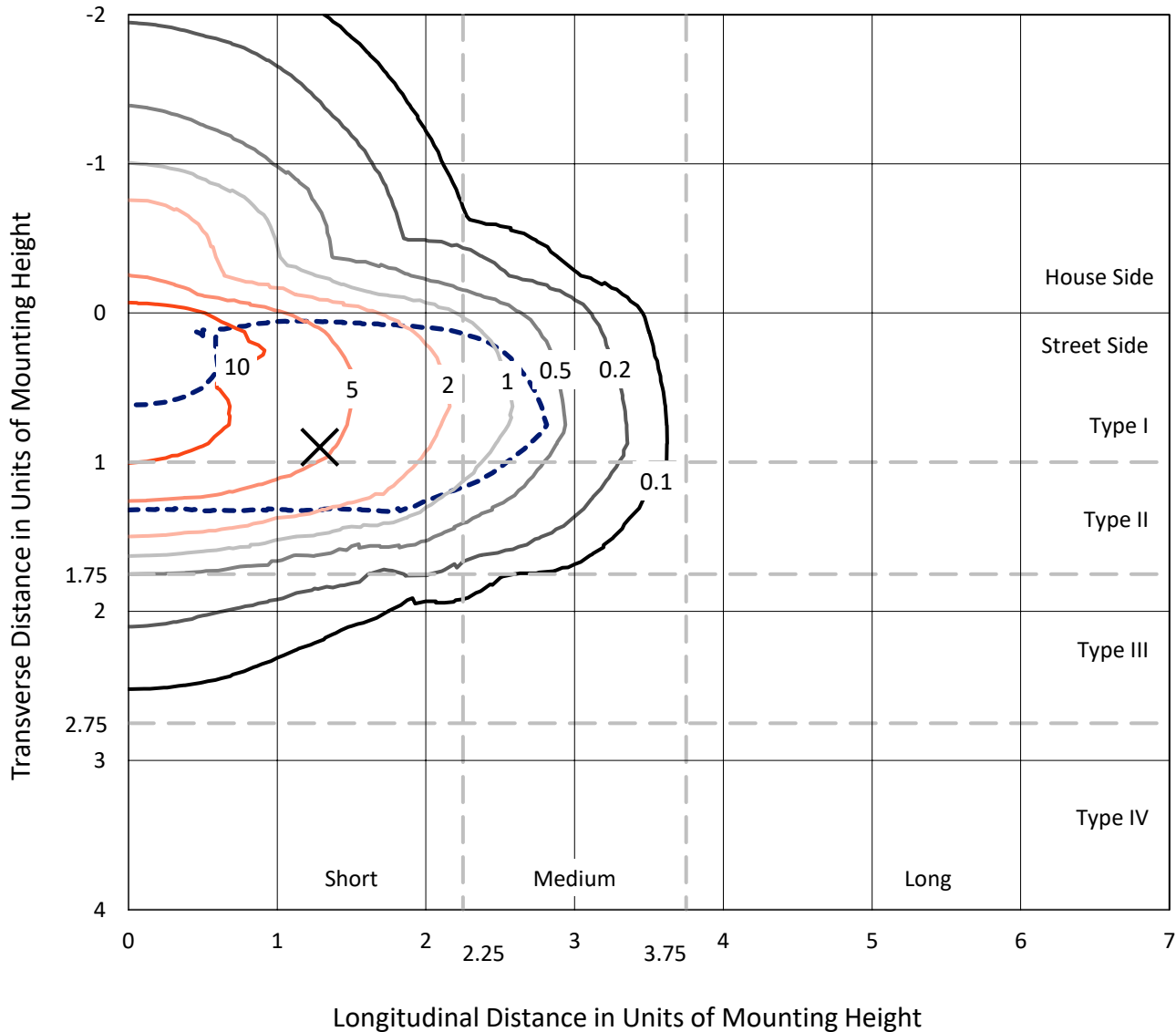
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

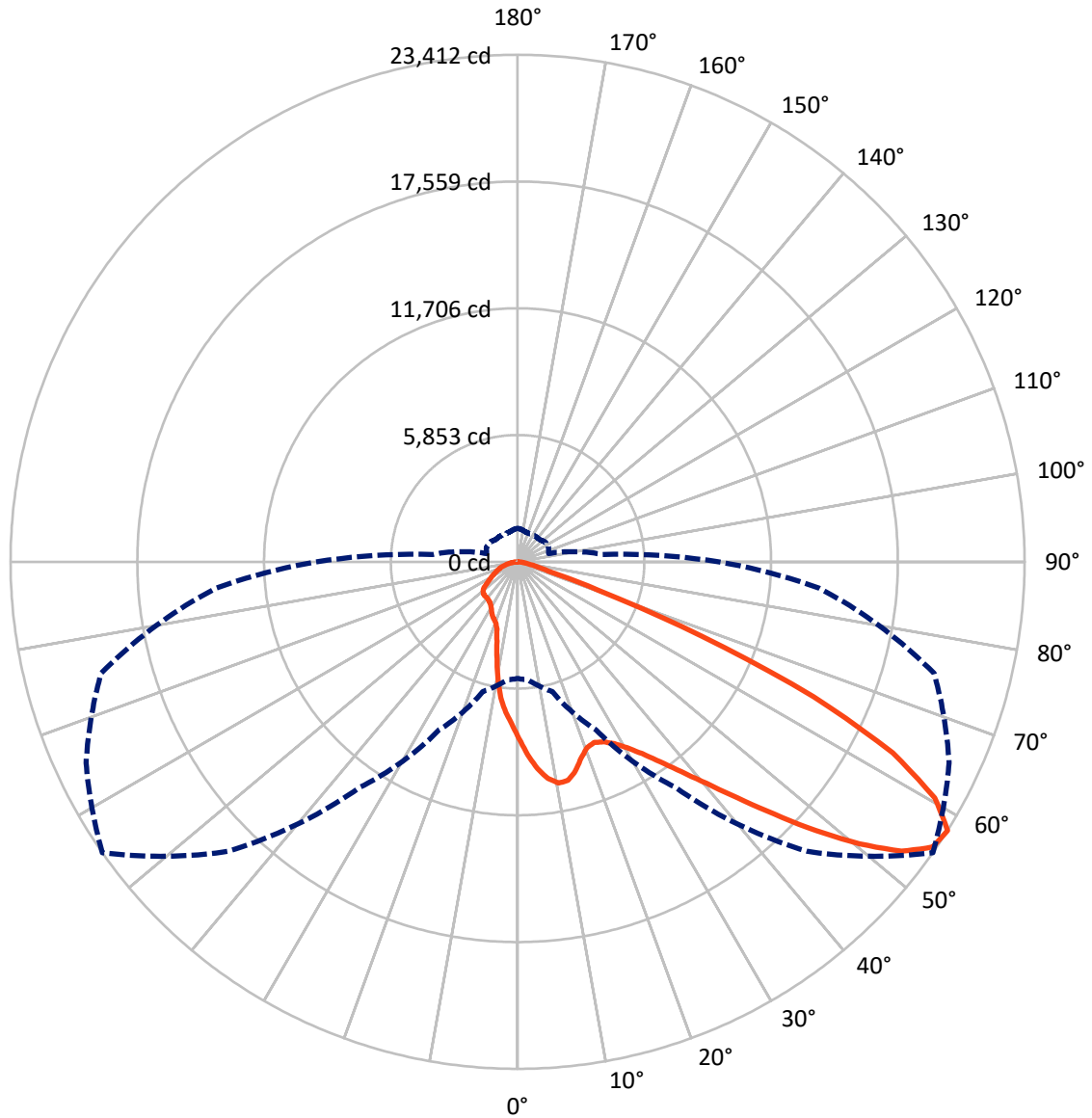
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5894.9	0.0	5894.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	26683.7	0.0	26683.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	32578.6	0.0	32578.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	757.5	2.3
10°-20°	1911.9	5.9
20°-30°	3050.9	9.4
30°-40°	4830.4	14.8
40°-50°	7393.3	22.7
50°-60°	7919.0	24.3
60°-70°	4981.9	15.3
70°-80°	1473.2	4.5
80°-90°	260.5	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°	32578.6	100.0
0°-180°	32578.6	100.0

Coefficient of Utilization



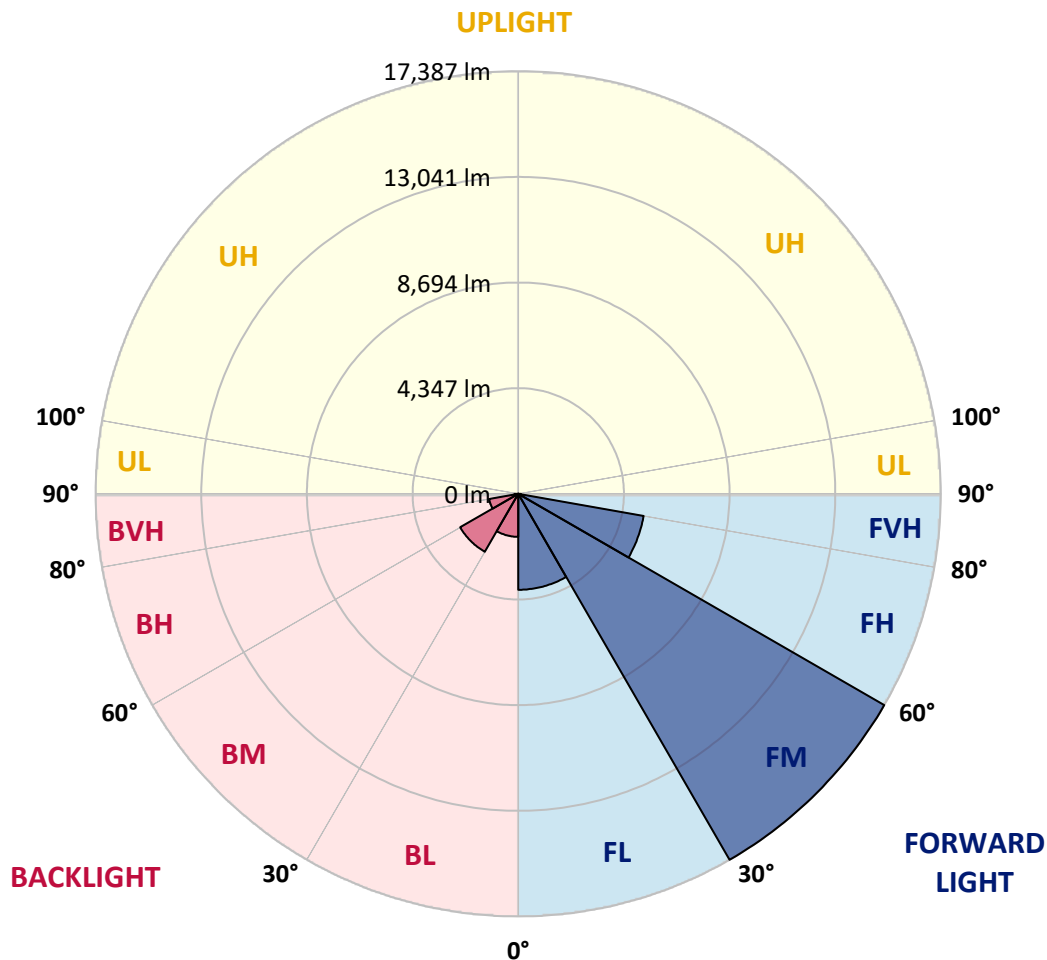
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3948.5	12.1			
FM (30°-60°)	17387.4	53.4			
FH (60°-80°)	5237.6	16.1			G3/7500
FVH (80°-90°)	110.1	0.3			G2/225
BL (0°-30°)	1771.8	5.4	B3/2500		
BM (30°-60°)	2755.2	8.5	B3/5000		
BH (60°-80°)	1217.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	150.4	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°	8163.1	8163.1	8163.1	8163.1	8163.1	8163.1	8163.1	8163.1	8163.1	8163.1	8163.1
2.5°	9365.6	9358.9	9396.0	9269.6	9183.7	9067.6	8914.3	8719.0	8508.4	8286.1	8190.1
5°	10209.4	10150.5	10189.2	10094.9	10000.5	9825.4	9598.0	9279.7	8890.7	8447.7	8212.0
7.5°	10076.4	10036.0	10135.3	10219.5	10290.3	10268.3	10101.6	9768.1	9266.3	8622.9	8281.1
10°	9003.5	8958.1	9097.9	9389.2	9816.9	10189.2	10391.2	10184.1	9650.3	8814.9	8348.4
12.5°	8057.0	8035.2	8127.7	8363.6	8838.5	9552.6	10354.2	10547.9	10049.4	9042.2	8439.3
15°	7652.9	7625.9	7684.8	7804.5	8107.5	8772.8	10017.4	10797.1	10441.8	9305.1	8584.2
17.5°	7563.6	7533.2	7558.6	7620.9	7816.2	8323.1	9508.8	10920.1	10851.1	9598.0	8705.4
20°	7728.6	7703.4	7706.8	7703.4	7839.8	8242.3	9155.1	10873.0	11208.1	9867.5	8823.3
22.5°	8127.7	8085.7	8087.4	7998.1	8072.2	8383.8	9062.4	10746.6	11526.4	10103.3	8912.6
25°	8777.9	8702.0	8717.2	8489.9	8469.7	8700.4	9207.4	10648.9	11843.1	10291.9	8929.4
27.5°	9667.1	9581.2	9535.8	9197.2	9035.6	9150.1	9502.1	10682.7	12142.9	10455.3	8887.4
30°	10778.7	10674.2	10581.6	10101.6	9808.5	9766.5	9960.1	10905.0	12496.5	10627.1	8814.9
32.5°	12141.1	12019.9	11851.5	11214.8	10802.3	10581.6	10553.0	11300.7	12910.8	10846.0	8777.9
35°	13763.0	13604.7	13365.5	12542.0	12019.9	11568.6	11334.4	11871.7	13478.3	11176.1	8819.9
37.5°	15433.6	15255.2	15036.2	14056.0	13414.4	12749.2	12287.7	12646.3	14234.6	11624.1	8931.1
40°	16974.7	16774.2	16570.5	15698.1	15009.3	14207.6	13454.8	13626.6	15159.1	12159.7	9119.7
42.5°	17884.1	17735.9	17658.5	17186.9	16654.7	15841.3	14906.6	14788.6	16198.3	12776.1	9335.3
45°	17843.7	17783.0	18022.3	18217.6	18091.2	17639.9	16607.6	16073.6	17240.8	13309.9	9534.0
47.5°	16890.5	16930.8	17464.8	18562.9	19046.2	19282.0	18544.3	17335.1	18146.9	13709.1	9623.3
50°	14296.9	14330.5	15566.7	17934.6	19292.1	20620.8	20466.0	18566.2	18849.1	13953.3	9603.1
52.5°	12243.8	12265.8	12796.3	16072.0	18480.3	21294.6	22197.3	19726.6	19362.9	14020.7	9490.3
55°	9222.4	9298.3	9892.8	12609.3	16368.4	20760.7	23251.5	20922.4	19687.9	14027.4	9372.4
57.5°	5387.6	5470.1	6204.4	8559.0	12722.2	18899.7	23411.5	21983.4	19908.5	13973.5	9301.7
60°	2639.1	2674.4	2994.4	4498.4	7844.8	15314.1	22124.8	22497.0	20031.5	13944.9	9298.3
62.5°	1778.5	1773.5	1786.9	2219.7	3865.2	9838.9	19443.6	21597.7	19965.8	13835.4	9264.6
65°	1529.2	1510.6	1460.2	1557.9	2002.4	4500.1	15022.7	18913.2	19465.6	13560.9	9033.8
67.5°	1322.0	1323.8	1325.4	1295.1	1429.9	2076.5	9180.4	14898.1	17670.3	12260.7	8144.6
70°	1094.7	1109.9	1116.6	1116.6	1165.4	1362.5	3919.1	10211.0	13938.2	9613.2	6559.8
72.5°	997.0	965.0	968.4	951.5	951.5	1037.4	1578.1	5788.5	8781.3	5407.8	4003.2
75°	813.4	833.6	837.0	825.2	786.5	791.6	936.4	2428.5	3757.3	2243.3	1978.9
77.5°	702.3	702.3	709.0	700.6	670.2	592.9	624.8	941.5	1278.3	919.5	988.6
80°	564.2	562.5	591.1	608.0	560.8	437.9	399.1	520.4	567.5	404.2	513.6
82.5°	274.5	291.4	405.9	463.1	426.1	316.6	244.2	323.4	303.2	178.6	230.7
85°	160.0	151.6	181.9	257.7	244.2	175.2	117.9	168.4	158.4	90.9	92.7
87.5°	50.5	47.2	37.0	87.5	70.7	48.8	32.0	48.8	43.8	20.2	20.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8163.1	8163.1	8163.1	8163.1	8163.1	8163.1	8163.1	8163.1	8163.1	8163.1
2.5°	8070.5	7871.8	7674.7	7494.5	7385.0	7314.3	7243.6	7164.4	7134.1	7088.6
5°	7989.7	7605.7	7263.8	6969.1	6701.2	6490.8	6278.5	6106.7	6029.3	6081.5
7.5°	7942.5	7386.8	6859.6	6319.0	5798.5	5382.6	5020.4	4766.1	4651.7	4680.3
10°	7900.4	7139.1	6335.8	5481.9	4734.2	4218.8	3848.4	3654.6	3582.2	3597.3
12.5°	7861.6	6861.2	5704.2	4580.9	3786.0	3445.8	3339.7	3341.4	3354.8	3365.0
15°	7855.0	6526.2	4998.6	3792.7	3274.1	3252.1	3366.6	3439.1	3477.8	3489.6
17.5°	7844.8	6125.3	4279.5	3255.5	3149.4	3297.6	3403.7	3450.9	3481.2	3482.8
20°	7804.5	5616.7	3615.9	2999.5	3122.5	3250.5	3316.1	3353.2	3378.4	3386.8
22.5°	7679.8	5050.8	3098.9	2885.0	3014.6	3117.4	3194.8	3237.0	3252.1	3262.3
25°	7455.7	4417.5	2741.8	2775.5	2864.8	2994.4	3056.8	3065.2	3060.1	3075.3
27.5°	7162.7	3738.9	2519.6	2627.3	2741.8	2853.0	2886.6	2881.6	2871.5	2888.3
30°	6809.1	3129.2	2378.0	2460.5	2617.2	2718.2	2748.5	2736.7	2716.6	2735.1
32.5°	6435.2	2630.7	2261.9	2344.4	2514.4	2613.9	2644.1	2632.3	2617.2	2632.3
35°	6086.6	2282.1	2154.0	2266.9	2433.7	2531.3	2570.0	2571.7	2571.7	2590.3
37.5°	5766.5	2078.3	2064.8	2218.0	2378.0	2465.6	2521.2	2524.6	2452.1	2457.2
40°	5470.1	1992.4	2024.4	2186.0	2324.2	2408.3	2411.7	2223.1	2090.1	2086.7
42.5°	5227.6	1975.5	2036.2	2182.6	2285.4	2288.8	2051.3	1904.8	1867.8	1869.4
45°	5000.3	1970.5	2063.1	2182.6	2228.1	1977.2	1817.2	1778.5	1781.9	1795.3
47.5°	4746.0	1950.3	2068.1	2152.4	2063.1	1758.3	1711.1	1694.2	1687.6	1690.9
50°	4468.1	1877.8	2004.2	2091.7	1780.1	1664.0	1605.0	1599.9	1608.3	1613.5
52.5°	4175.0	1759.9	1894.7	1982.2	1650.5	1581.5	1515.8	1527.6	1564.6	1576.3
55°	3983.0	1621.9	1749.9	1763.3	1559.5	1504.0	1448.4	1475.3	1544.4	1566.3
57.5°	3932.5	1475.3	1584.8	1569.7	1443.3	1436.6	1402.9	1426.5	1514.0	1546.1
60°	3917.3	1344.0	1423.1	1411.3	1330.4	1362.5	1354.0	1365.8	1396.2	1406.3
62.5°	3799.5	1239.5	1278.3	1261.5	1229.5	1285.0	1305.2	1279.9	1303.5	1315.4
65°	3499.7	1155.4	1136.8	1125.0	1138.5	1189.0	1229.5	1179.0	1200.8	1234.5
67.5°	3004.6	1040.8	990.3	1003.8	1045.9	1072.8	1125.0	1067.7	1086.3	1143.6
70°	2430.3	896.0	850.5	889.2	929.7	985.2	993.6	954.9	998.8	1062.7
72.5°	1719.5	749.5	717.5	796.6	810.1	882.5	864.0	845.4	906.1	927.9
75°	1192.4	604.6	586.1	646.7	695.6	757.9	744.4	766.3	894.3	904.4
77.5°	754.5	469.9	458.1	496.8	564.2	633.2	655.2	904.4	1527.6	1588.1
80°	437.9	350.3	336.8	367.2	426.1	490.1	631.6	1109.9	1007.2	995.4
82.5°	244.2	240.9	224.0	232.4	284.6	353.6	892.6	781.5	634.9	655.2
85°	114.5	141.4	121.3	116.2	160.0	414.3	596.2	446.3	296.4	289.7
87.5°	30.3	27.0	27.0	30.3	67.3	357.0	237.5	190.3	112.9	109.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)