

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: P966742

Luminaire Tested: **NAV-SB4C-750-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-750-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32250.6 lumens
Efficiency: N/A
Efficacy: 160.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

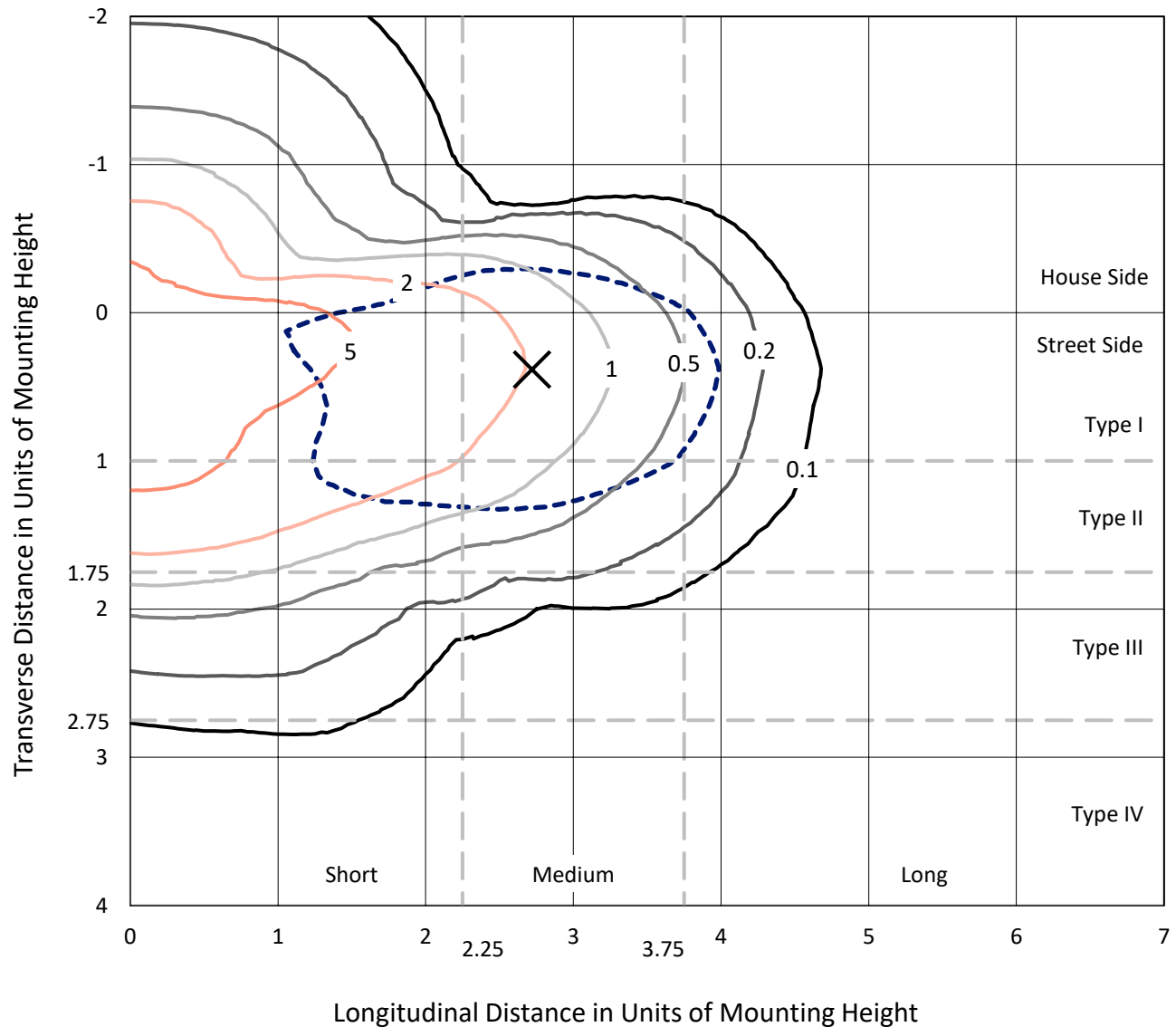
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

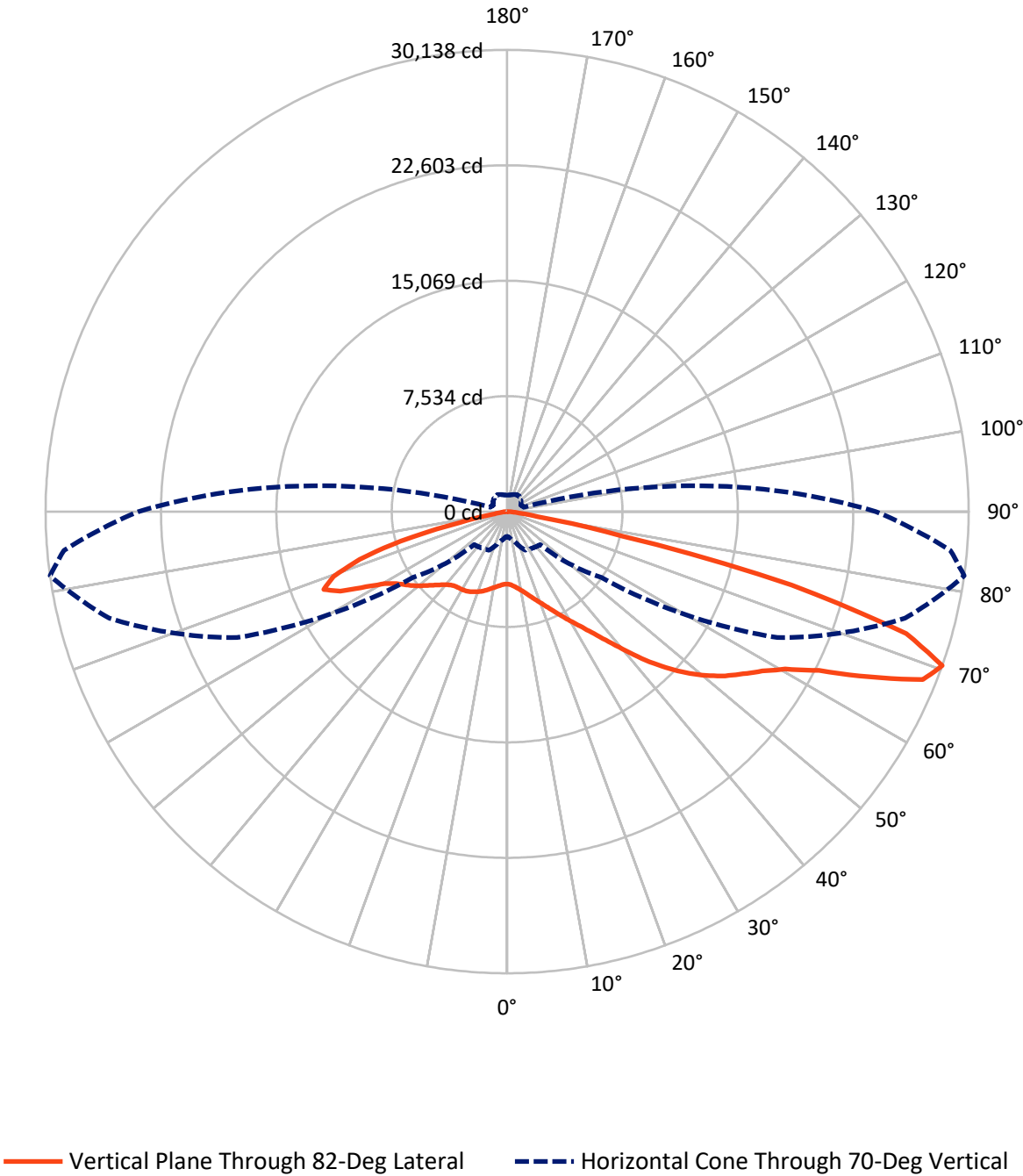
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	7950.6	0.0	7950.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	24300.0	0.0	24300.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	32250.6	0.0	32250.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.4	1.4
10°-20°	1282.6	4.0
20°-30°	2145.7	6.7
30°-40°	3352.2	10.4
40°-50°	5338.8	16.6
50°-60°	7429.5	23.0
60°-70°	7771.6	24.1
70°-80°	4061.9	12.6
80°-90°	421.8	1.3
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°	32250.6	100.0
0°-180°	32250.6	100.0

Coefficient of Utilization



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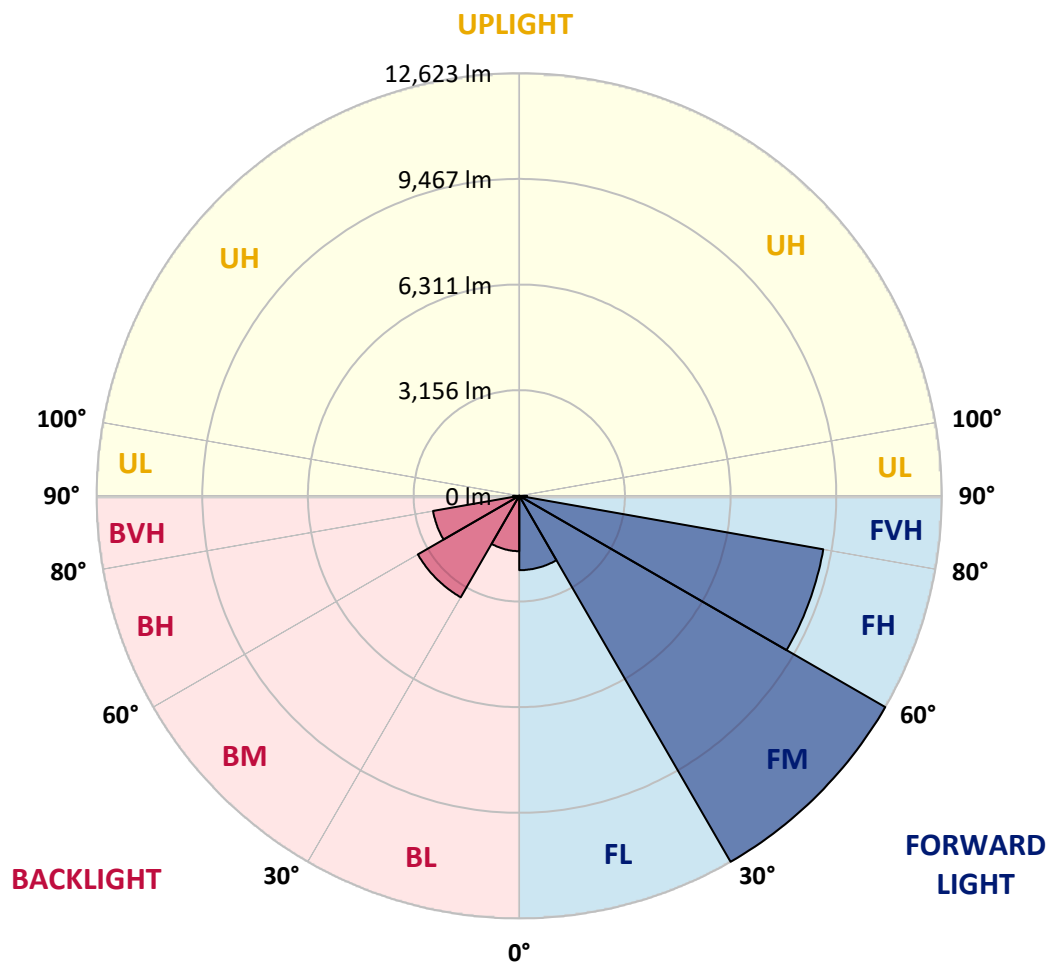
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2220.8	6.9			
FM	(30°-60°)	12622.6	39.1			
FH	(60°-80°)	9220.6	28.6			G4/12000
FVH	(80°-90°)	236.1	0.7			G3/500
BL	(0°-30°)	1654.0	5.1	B3/2500		
BM	(30°-60°)	3497.9	10.8	B3/5000		
BH	(60°-80°)	2613.0	8.1	B4/5000		G4/5000
BVH	(80°-90°)	185.7	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4728.3	4728.3	4728.3	4728.3	4728.3	4728.3	4728.3	4728.3	4728.3	4728.3	4728.3
2.5°	4841.3	4868.6	4860.1	4851.5	4851.5	4839.5	4837.9	4820.8	4807.0	4784.8	4779.7
5°	4902.9	4932.0	4928.6	4935.4	4957.6	4962.7	4968.0	4957.6	4930.2	4902.9	4890.9
7.5°	4848.1	4880.6	4890.9	4932.0	5000.5	5062.1	5108.3	5127.0	5101.4	5062.1	5043.2
10°	4663.3	4699.2	4735.2	4832.8	4954.2	5099.7	5222.9	5296.5	5291.4	5253.7	5221.2
12.5°	4288.5	4326.2	4403.2	4593.1	4815.7	5072.3	5301.6	5455.7	5508.7	5481.3	5424.8
15°	3989.1	4021.6	4079.7	4274.9	4564.0	4954.2	5330.7	5630.2	5765.4	5749.9	5681.6
17.5°	3980.5	3994.2	4030.1	4122.5	4345.0	4769.4	5300.0	5801.3	6059.7	6058.1	5972.5
20°	4131.1	4136.2	4156.8	4175.5	4302.2	4629.1	5221.2	5943.4	6390.1	6390.1	6297.6
22.5°	4339.8	4336.5	4357.0	4339.8	4401.5	4617.1	5171.5	6068.3	6757.9	6785.3	6669.0
25°	4653.1	4636.0	4630.8	4591.5	4603.4	4728.3	5226.4	6210.4	7194.4	7250.8	7105.3
27.5°	5070.6	5043.2	5024.4	4933.7	4902.9	4957.6	5394.1	6381.4	7680.3	7777.9	7593.1
30°	5614.8	5565.1	5537.8	5380.3	5269.1	5277.6	5647.3	6609.1	8188.6	8346.1	8111.6
32.5°	6357.5	6280.5	6206.9	5948.5	5744.8	5678.1	5974.2	6924.0	8739.7	8991.2	8690.1
35°	7189.2	7127.5	7048.8	6650.1	6337.0	6182.9	6415.7	7363.8	9384.8	9783.5	9391.7
37.5°	7990.1	7937.1	7974.7	7437.3	7033.4	6809.3	6994.1	7954.2	10180.6	10769.3	10271.2
40°	8818.4	8777.3	8782.4	8269.1	7798.4	7546.9	7695.7	8695.2	11092.7	11941.5	11328.8
42.5°	9718.5	9687.7	9585.0	9129.8	8601.0	8366.6	8503.5	9550.8	12071.5	13276.3	12489.1
45°	10726.5	10707.7	10611.8	10089.9	9484.0	9220.5	9405.3	10495.5	13055.5	14532.4	13654.5
47.5°	11597.6	11612.9	11600.9	11161.1	10533.1	10146.4	10367.1	11481.1	13971.2	15713.2	14772.0
50°	12016.8	12097.3	12215.3	12078.4	11688.2	11294.6	11337.4	12432.6	14843.8	16820.5	15843.3
52.5°	11797.7	11950.1	12271.8	12490.9	12641.4	12559.3	12444.6	13377.3	15665.3	17819.8	16856.3
55°	10981.4	11195.4	11729.3	12258.1	13026.5	13623.7	13774.4	14424.6	16466.2	18699.5	17814.7
57.5°	9494.4	9841.7	10320.9	11390.4	12684.2	14138.8	15324.8	15877.6	17315.0	19639.0	18817.6
60°	6944.5	7409.9	8005.5	9597.0	11486.3	13863.3	16644.2	18109.1	18521.4	20855.7	20123.2
62.5°	4444.3	4731.8	5279.4	6778.5	8950.1	12451.5	17048.0	20898.5	20566.5	22851.0	22081.0
65°	3042.7	3227.5	3729.0	4570.9	5785.9	9268.5	15966.5	22989.7	23814.5	26013.6	25428.3
67.5°	2211.0	2351.4	2779.2	3516.8	3770.1	5484.8	12389.9	22893.9	26972.0	29272.0	28361.4
70°	1612.0	1711.3	2070.7	2779.2	2900.6	3051.2	7505.8	19461.0	26903.5	30137.9	29047.7
72.5°	1194.5	1262.9	1504.3	2156.3	2347.9	2060.5	3715.2	14144.0	23118.1	27259.4	26384.9
75°	864.2	915.5	1093.6	1649.7	1879.0	1569.3	1853.3	8265.6	16125.6	19175.2	19329.2
77.5°	660.6	700.0	816.3	1208.2	1504.3	1177.4	1149.9	3802.5	7646.1	7683.8	8115.0
80°	530.5	556.2	619.5	850.5	1153.4	881.3	749.6	1535.0	2416.3	2045.0	2145.9
82.5°	390.2	433.0	523.7	597.3	824.8	607.5	456.9	775.2	919.0	790.6	797.4
85°	222.4	251.5	316.6	427.8	527.1	371.4	261.8	344.0	427.8	350.9	313.1
87.5°	78.7	102.7	111.2	167.7	229.3	154.1	101.0	99.2	140.3	104.3	87.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4728.3	4728.3	4728.3	4728.3	4728.3	4728.3	4728.3	4728.3	4728.3	4728.3	4728.3
2.5°	4762.6	4754.1	4719.8	4673.6	4625.6	4579.5	4564.0	4531.5	4509.3	4497.3	4511.0
5°	4858.4	4831.0	4750.6	4647.9	4540.1	4423.7	4341.6	4266.3	4211.5	4160.2	4180.8
7.5°	4995.3	4947.4	4808.8	4629.1	4437.4	4244.0	4100.3	3990.7	3917.1	3869.3	3879.5
10°	5154.4	5080.8	4868.6	4600.0	4304.0	4026.7	3857.3	3763.2	3717.0	3691.3	3698.1
12.5°	5337.6	5233.1	4930.2	4533.3	4100.3	3783.7	3667.3	3640.0	3641.6	3643.4	3646.7
15°	5563.5	5418.0	4979.9	4387.8	3835.0	3597.1	3576.6	3621.1	3667.3	3689.6	3687.8
17.5°	5818.4	5613.1	4988.5	4148.2	3574.9	3477.4	3542.4	3638.2	3708.4	3739.2	3746.1
20°	6092.3	5811.6	4926.9	3809.4	3361.0	3379.8	3496.2	3619.4	3696.5	3735.8	3746.1
22.5°	6405.4	6023.8	4779.7	3453.4	3186.4	3273.7	3410.6	3530.4	3610.9	3650.2	3660.5
25°	6763.1	6261.6	4548.6	3153.9	3035.8	3153.9	3290.9	3390.1	3455.2	3491.0	3501.3
27.5°	7160.1	6509.8	4240.6	2916.0	2904.1	3030.7	3143.7	3220.7	3254.9	3282.3	3292.5
30°	7558.9	6735.7	3867.5	2736.3	2789.4	2909.3	2989.6	3023.9	3034.1	3039.3	3051.2
32.5°	7990.1	6930.7	3475.7	2587.5	2679.9	2791.2	2839.0	2854.4	2806.6	2774.1	2784.3
35°	8512.0	7139.5	3092.3	2469.4	2572.1	2668.0	2683.3	2669.6	2613.1	2546.4	2549.9
37.5°	9157.2	7399.7	2786.1	2385.6	2471.2	2534.4	2515.7	2512.2	2517.3	2438.6	2443.7
40°	9947.8	7738.5	2561.8	2320.5	2389.0	2402.7	2349.6	2378.7	2404.3	2284.6	2288.0
42.5°	10825.7	8147.5	2419.8	2276.0	2320.5	2288.0	2205.9	2238.4	2235.0	2077.6	2075.8
45°	11720.8	8592.5	2370.2	2243.5	2257.3	2192.2	2101.5	2110.1	2038.2	1896.1	1901.3
47.5°	12610.6	9069.9	2401.0	2216.2	2178.5	2104.9	2034.7	1997.1	1891.0	1784.9	1784.9
50°	13483.4	9571.3	2513.9	2161.4	2070.7	2027.9	1976.6	1909.8	1796.8	1706.2	1699.3
52.5°	14292.8	10076.2	2640.5	2070.7	1935.5	1961.1	1928.6	1851.7	1740.4	1648.0	1649.7
55°	15059.5	10581.0	2690.2	1945.8	1808.8	1903.0	1884.2	1742.1	1608.6	1533.3	1526.5
57.5°	15894.6	11188.5	2635.4	1786.6	1706.2	1836.2	1764.3	1606.9	1529.9	1473.4	1468.3
60°	17051.5	12141.7	2517.3	1589.8	1608.6	1737.0	1613.8	1548.8	1464.9	1401.6	1398.1
62.5°	18973.3	13919.8	2327.4	1394.7	1493.9	1589.8	1541.9	1476.8	1391.3	1329.7	1329.7
65°	21814.0	16390.9	1969.7	1242.4	1365.6	1446.1	1464.9	1399.8	1310.9	1245.8	1249.3
67.5°	24209.9	17941.3	1490.6	1115.8	1233.9	1329.7	1382.7	1319.4	1225.3	1161.9	1163.7
70°	24078.1	16815.3	1138.1	990.9	1117.5	1215.0	1283.5	1233.9	1132.9	1073.0	1078.1
72.5°	21386.2	14066.9	920.7	864.2	999.4	1095.2	1177.4	1139.7	1037.1	978.9	978.9
75°	15711.5	9985.4	735.8	735.8	852.2	970.3	1061.0	1037.1	942.9	901.9	889.9
77.5°	6622.7	4189.3	576.7	610.9	708.5	833.4	946.4	954.9	872.8	924.1	838.6
80°	1761.0	1155.2	439.8	480.8	556.2	688.0	823.2	819.7	730.7	682.9	634.9
82.5°	670.9	455.2	313.1	338.9	402.1	527.1	652.0	672.5	583.5	504.8	504.8
85°	258.4	195.1	193.4	203.7	234.4	349.1	492.8	509.9	439.8	373.1	385.1
87.5°	66.7	58.2	71.9	68.5	107.8	186.5	282.4	292.6	268.7	155.7	222.4
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)