

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: P885519

Luminaire Tested: **NAV-SB6D-830-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-830-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54081 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

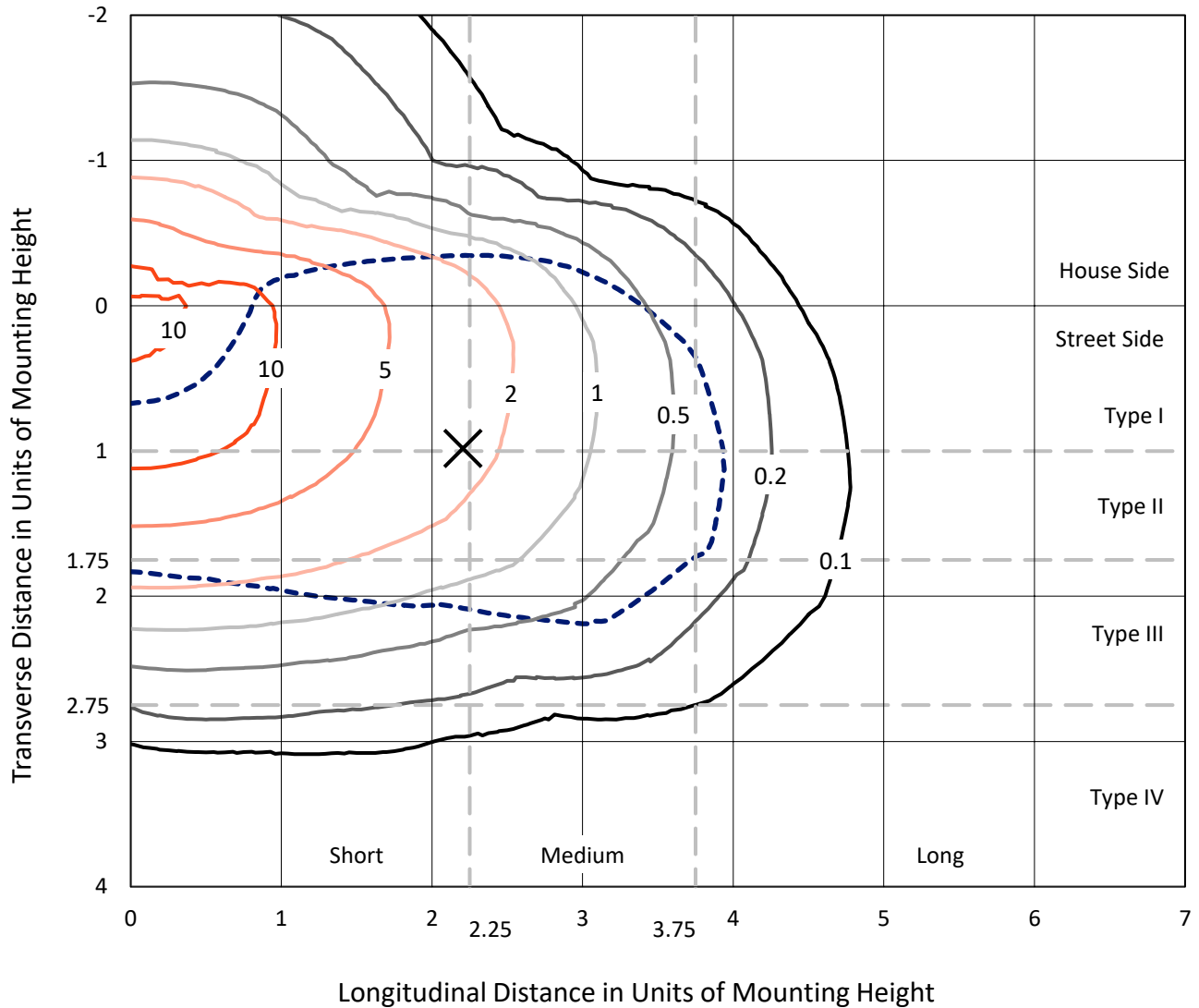
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

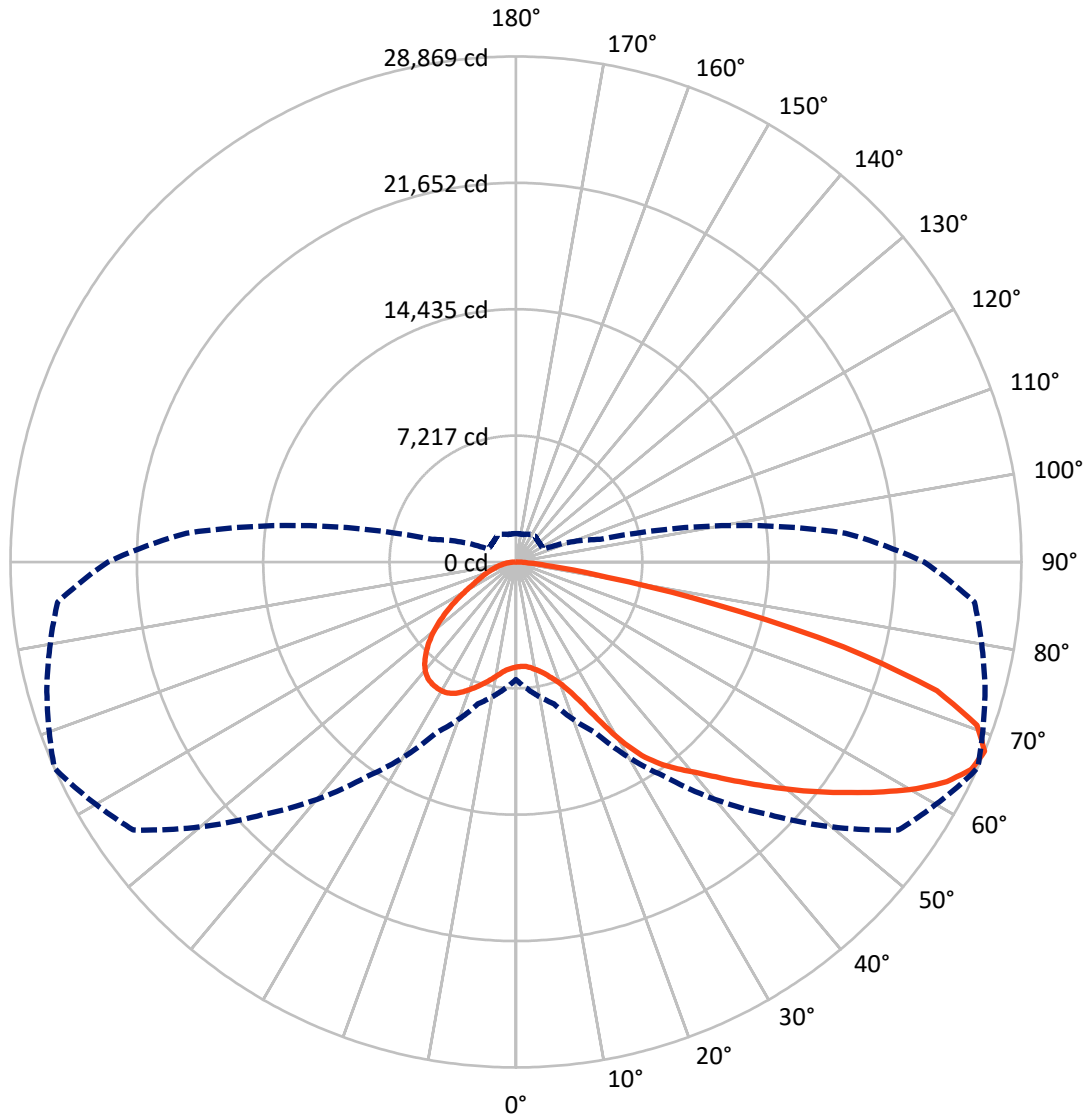
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13447.1	0.0	13447.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	40633.9	0.0	40633.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	54081.0	0.0	54081.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.7	1.1
10°-20°	1964.8	3.6
20°-30°	3787.1	7.0
30°-40°	6640.2	12.3
40°-50°	9871.8	18.3
50°-60°	12513.5	23.1
60°-70°	12244.1	22.6
70°-80°	5840.6	10.8
80°-90°	624.2	1.2
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°	54081.0	100.0
0°-180°	54081.0	100.0

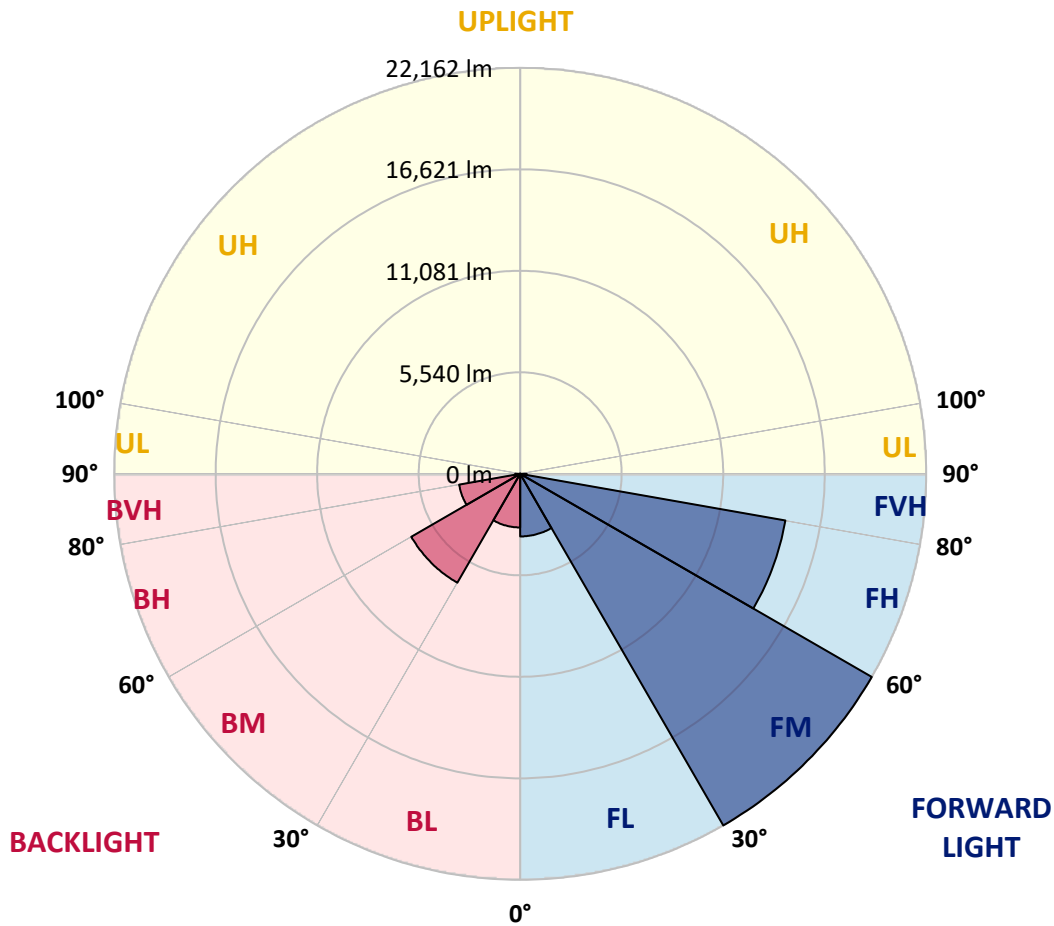


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3417.4	6.3			
FM (30°-60°)	22161.9	41.0			
FH (60°-80°)	14700.7	27.2			G5
FVH (80°-90°)	353.9	0.7			G3/500
BL (0°-30°)	2929.3	5.4	B4/5000		
BM (30°-60°)	6863.5	12.7	B4/8500		
BH (60°-80°)	3384.0	6.3	B4/5000		G4/5000
BVH (80°-90°)	270.3	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5998.3	5998.3	5998.3	5998.3	5998.3	5998.3	5998.3	5998.3	5998.3	5998.3	5998.3
2.5°	5935.8	5969.9	5961.4	5947.2	5944.3	5950.0	5958.5	5967.0	5964.2	5978.4	6001.1
5°	5918.7	5952.8	5950.0	5950.0	5961.4	5984.1	5998.3	6012.5	5998.3	6015.3	6046.6
7.5°	5930.1	5955.7	5967.0	5978.4	6006.8	6049.4	6083.5	6114.8	6097.7	6117.6	6157.4
10°	6075.0	6094.9	6106.3	6106.3	6126.2	6174.5	6208.6	6265.4	6251.2	6282.4	6333.6
12.5°	6339.3	6359.2	6359.2	6347.8	6362.0	6393.3	6404.6	6467.1	6441.6	6492.7	6543.9
15°	6663.2	6703.0	6671.7	6651.8	6657.5	6688.8	6685.9	6734.2	6708.7	6751.3	6796.7
17.5°	7021.2	7072.4	7021.2	7018.4	7007.0	7041.1	7044.0	7086.6	7041.1	7072.4	7103.6
20°	7444.6	7515.6	7473.0	7487.2	7461.6	7475.9	7490.1	7552.6	7481.5	7504.3	7495.7
22.5°	8041.3	8126.5	8081.1	8135.1	8118.0	8106.7	8103.8	8214.6	8103.8	8112.3	8029.9
25°	8910.8	9013.1	8933.5	9007.4	9007.4	9044.3	9087.0	9229.0	9044.3	8990.3	8777.2
27.5°	10195.1	10297.4	10141.1	10186.6	10172.4	10263.3	10217.8	10570.2	10371.3	10283.2	9854.1
30°	11740.9	11922.7	11627.2	11615.8	11601.6	11746.5	11811.9	12044.9	11843.2	11755.1	11237.9
32.5°	13411.6	13602.0	13249.7	13147.4	13093.4	13181.5	13127.5	13315.0	13175.8	13039.4	12400.1
35°	15179.0	15366.6	15031.3	14832.4	14616.4	14431.7	14238.5	14286.8	14156.1	13948.7	13286.6
37.5°	16849.8	17193.6	16838.4	16625.3	16227.5	15866.6	15326.8	15102.3	14980.1	14789.7	14122.0
40°	18551.8	18747.9	18477.9	18296.1	17864.2	17298.7	16434.9	15960.4	15795.6	15610.9	15045.5
42.5°	19804.9	19992.4	19847.5	19722.5	19384.4	18728.0	17611.3	17017.4	16778.8	16571.3	16091.1
45°	20799.4	20938.6	20847.7	20893.2	20748.3	20111.8	18830.3	18151.2	17904.0	17651.1	17273.2
47.5°	21200.0	21347.8	21492.7	21762.7	22009.9	21541.0	20140.2	19378.7	19117.3	18858.7	18486.5
50°	21154.6	21305.2	21725.7	22299.7	23066.9	22910.6	21521.1	20685.7	20444.2	20148.7	19804.9
52.5°	20790.9	20961.4	21501.2	22456.0	23677.8	23936.4	22927.6	22035.4	21808.1	21455.8	21112.0
55°	19836.2	19938.4	20748.3	22100.8	23822.7	24652.4	24305.7	23473.2	23245.9	22754.3	22379.2
57.5°	18065.9	18213.7	19392.9	21143.2	23459.0	25138.3	25516.2	24984.9	24766.1	24058.5	23666.4
60°	15755.8	15991.7	17341.4	19535.0	22532.7	25135.5	26615.8	26470.9	26289.1	25342.9	24933.7
62.5°	13141.7	13414.5	14713.0	17261.8	20913.1	24422.2	27303.5	27715.5	27621.7	26527.8	26004.9
65°	10092.8	10280.4	11573.2	14320.9	18392.7	22890.7	27383.0	28565.1	28582.1	27428.5	26564.7
67.5°	6720.0	7259.9	8382.3	10746.4	15017.1	20387.4	26684.0	28704.3	28869.1	27738.2	26283.4
70°	3279.0	3989.4	5089.0	6984.3	10746.4	16548.6	24857.0	27562.0	27928.6	26834.6	24606.9
72.5°	1361.1	1591.2	2190.8	3446.7	6168.8	11166.9	21185.8	24464.9	25144.0	23777.2	20688.6
75°	917.8	994.5	1253.1	1767.4	2810.2	5506.7	15278.5	18242.1	19336.1	17958.0	14678.9
77.5°	707.5	755.8	912.1	1236.0	1670.8	2082.8	8177.7	10993.6	11559.0	10700.9	7637.8
80°	556.9	593.9	681.9	900.7	1184.9	1113.8	2787.5	4981.1	5307.8	4452.5	2455.0
82.5°	483.0	497.3	488.7	610.9	787.1	650.7	914.9	1838.4	2028.8	1471.9	801.3
85°	349.5	389.3	406.3	377.9	417.7	329.6	375.1	650.7	716.0	639.3	451.8
87.5°	142.1	210.3	258.6	244.4	153.4	93.8	116.5	190.4	218.8	238.7	147.8
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°	5998.3	5998.3	5998.3	5998.3	5998.3	5998.3	5998.3	5998.3	5998.3	5998.3	5998.3
2.5°	6004.0	6023.9	6038.1	6055.1	6066.5	6083.5	6117.6	6137.5	6140.4	6154.6	6151.7
5°	6058.0	6086.4	6117.6	6163.1	6214.2	6256.9	6322.2	6367.7	6384.7	6398.9	6396.1
7.5°	6174.5	6214.2	6271.1	6350.6	6424.5	6481.3	6560.9	6614.9	6668.9	6688.8	6691.6
10°	6347.8	6404.6	6487.0	6595.0	6674.6	6748.4	6830.8	6876.3	6930.3	6953.0	6964.4
12.5°	6563.7	6623.4	6731.4	6882.0	6955.9	7007.0	7035.4	7024.1	7035.4	7055.3	7061.0
15°	6811.0	6876.3	6998.5	7160.5	7211.6	7166.1	7103.6	7046.8	7038.3	7044.0	7063.8
17.5°	7103.6	7151.9	7294.0	7430.4	7393.4	7205.9	7069.5	6978.6	6933.1	6918.9	6938.8
20°	7512.8	7512.8	7629.3	7714.5	7467.3	7149.1	6936.0	6788.2	6694.5	6654.7	6646.1
22.5°	8010.0	7964.6	8038.5	7978.8	7453.1	6990.0	6694.5	6438.7	6296.6	6239.8	6231.3
25°	8640.8	8586.9	8567.0	8197.6	7350.8	6737.1	6256.9	5947.2	5822.1	5790.9	5796.6
27.5°	9592.7	9456.3	9197.8	8316.9	7163.3	6339.3	5745.4	5458.4	5387.4	5390.2	5398.8
30°	10860.0	10587.2	9953.6	8336.8	6856.4	5776.7	5222.6	5018.0	4983.9	4998.1	5046.4
32.5°	12033.5	11775.0	10726.5	8245.9	6384.7	5225.4	4753.7	4617.4	4566.2	4583.3	4606.0
35°	12954.2	12883.1	11442.5	8118.0	5805.1	4708.3	4333.2	4216.7	4117.3	4094.5	4111.6
37.5°	13823.6	13795.2	11979.5	7939.0	5231.1	4341.7	3995.1	3841.6	3696.7	3617.2	3620.0
40°	14778.4	14750.0	12331.9	7663.4	4722.5	4023.5	3691.0	3489.3	3310.3	3165.4	3179.6
42.5°	15852.4	15684.8	12499.5	7268.4	4290.6	3753.6	3443.8	3171.1	2935.2	2801.7	2810.2
45°	17026.0	16648.0	12496.7	6765.5	3926.9	3506.3	3179.6	2793.1	2574.4	2449.3	2443.6
47.5°	18270.5	17568.7	12343.3	6208.6	3574.5	3233.6	2770.4	2474.9	2330.0	2253.3	2236.2
50°	19554.8	18429.6	12081.8	5569.2	3213.7	2923.9	2514.7	2312.9	2202.1	2131.1	2105.5
52.5°	20762.5	19211.0	11766.4	4844.7	2847.1	2622.7	2401.0	2244.7	2128.2	2048.7	2014.6
55°	21884.8	19884.5	11320.3	4103.1	2548.8	2420.9	2347.0	2216.3	2082.8	1989.0	1952.1
57.5°	22882.2	20322.0	10550.3	3406.9	2335.7	2281.7	2290.2	2168.0	2014.6	1935.0	1883.9
60°	23711.9	20643.1	9410.9	2761.9	2162.3	2145.3	2202.1	2077.1	1898.1	1807.2	1767.4
62.5°	24209.1	20637.4	8012.9	2261.8	2014.6	2020.3	2085.6	1963.4	1781.6	1696.3	1670.8
65°	24166.5	20131.7	6478.5	1935.0	1872.5	1878.2	1963.4	1838.4	1685.0	1633.8	1631.0
67.5°	23311.2	18898.5	4969.7	1721.9	1716.2	1741.8	1841.3	1753.2	1625.3	1619.6	1628.1
70°	20995.5	16338.3	3580.2	1551.4	1554.3	1591.2	1721.9	1699.2	1594.1	1605.4	1602.6
72.5°	16835.6	12456.9	2403.9	1372.4	1375.3	1434.9	1608.3	1656.6	1562.8	1713.4	1736.1
75°	11212.4	7768.5	1545.7	1182.0	1184.9	1261.6	1508.8	1574.2	1477.6	1707.7	1721.9
77.5°	5387.4	3492.1	1119.5	994.5	994.5	1065.5	1304.2	1409.4	1258.8	1327.0	1216.1
80°	1861.1	1312.7	880.8	801.3	784.2	832.5	1099.6	1221.8	1085.4	1000.2	937.7
82.5°	733.1	681.9	707.5	622.3	565.4	596.7	855.3	1008.7	798.4	721.7	718.9
85°	420.5	443.3	500.1	412.0	326.8	366.5	628.0	724.6	602.4	531.4	542.7
87.5°	113.7	156.3	230.2	213.1	147.8	156.3	298.4	400.6	346.7	267.1	275.6
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)