

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: P885187

Luminaire Tested: **NAV-SB6B-835-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-835-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28574 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

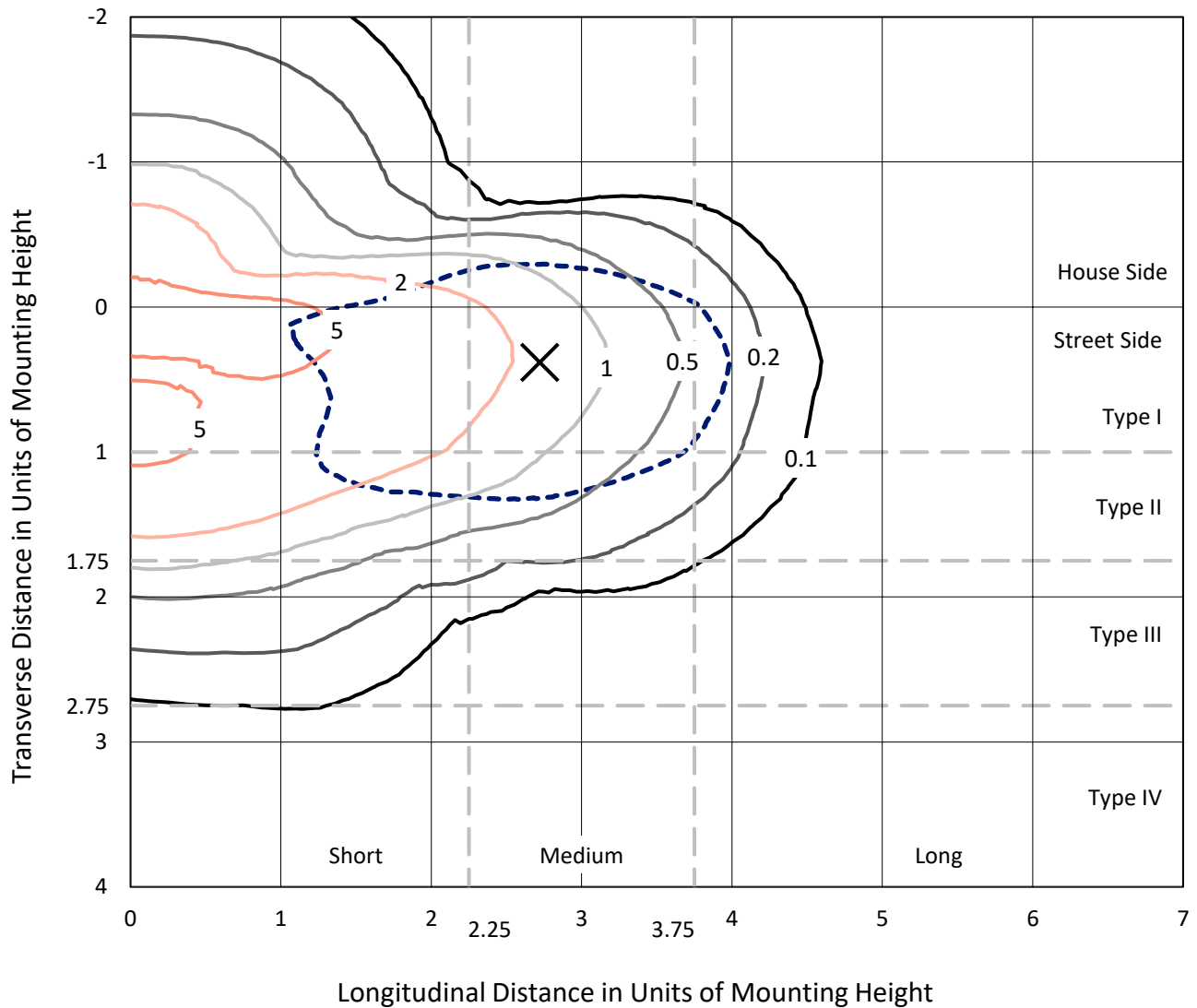
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

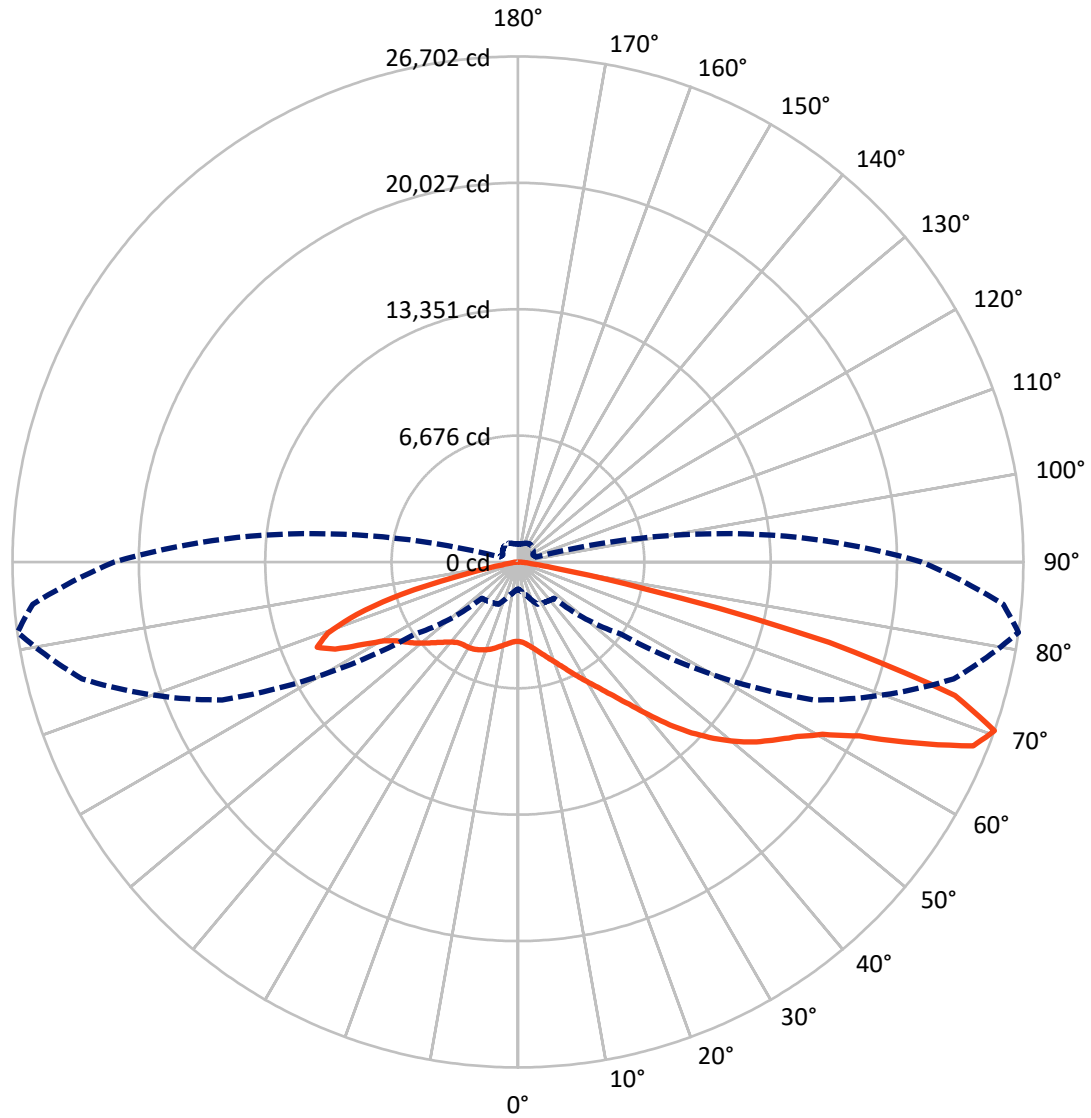
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7044.2	0.0	7044.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	21529.8	0.0	21529.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	28574.0	0.0	28574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.5	1.4
10°-20°	1136.4	4.0
20°-30°	1901.1	6.7
30°-40°	2970.0	10.4
40°-50°	4730.1	16.6
50°-60°	6582.6	23.0
60°-70°	6885.7	24.1
70°-80°	3598.8	12.6
80°-90°	373.7	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°	28574.0	100.0
0°-180°	28574.0	100.0

Coefficient of Utilization



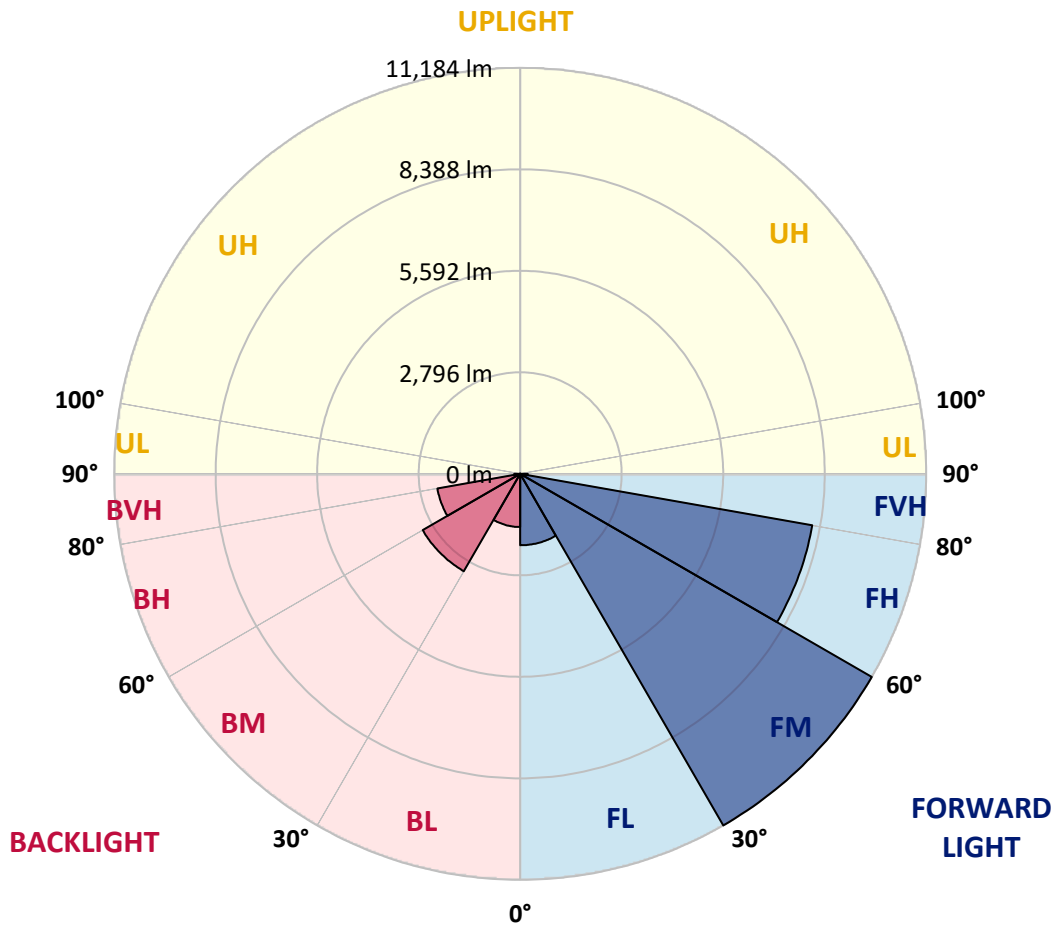
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1967.6	6.9			
FM (30°-60°)	11183.6	39.1			
FH (60°-80°)	8169.4	28.6			G4/12000
FVH (80°-90°)	209.2	0.7			G2/225
BL (0°-30°)	1465.4	5.1	B3/2500		
BM (30°-60°)	3099.2	10.8	B3/5000		
BH (60°-80°)	2315.1	8.1	B3/2500		G3/2500
BVH (80°-90°)	164.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4189.3	4189.3	4189.3	4189.3	4189.3	4189.3	4189.3	4189.3	4189.3	4189.3	4189.3
2.5°	4289.4	4313.6	4306.1	4298.5	4298.5	4287.9	4286.3	4271.2	4259.1	4239.3	4234.8
5°	4344.0	4369.7	4366.7	4372.8	4392.5	4397.0	4401.6	4392.5	4368.2	4344.0	4333.3
7.5°	4295.4	4324.2	4333.3	4369.7	4430.4	4485.0	4525.9	4542.6	4519.8	4485.0	4468.3
10°	4131.7	4163.5	4195.4	4281.8	4389.4	4518.3	4627.5	4692.7	4688.1	4654.8	4626.0
12.5°	3799.6	3833.0	3901.2	4069.5	4266.6	4494.1	4697.2	4833.7	4880.7	4856.4	4806.4
15°	3534.3	3563.1	3614.7	3787.5	4043.7	4389.4	4723.0	4988.4	5108.1	5094.5	5033.8
17.5°	3526.7	3538.8	3570.7	3652.6	3849.7	4225.7	4695.7	5140.0	5368.9	5367.4	5291.6
20°	3660.1	3664.7	3682.9	3699.6	3811.8	4101.4	4626.0	5265.8	5661.6	5661.6	5579.7
22.5°	3845.1	3842.1	3860.3	3845.1	3899.7	4090.8	4582.0	5376.5	5987.5	6011.8	5908.7
25°	4122.6	4107.4	4102.9	4068.0	4078.6	4189.3	4630.5	5502.3	6374.2	6424.2	6295.3
27.5°	4492.5	4468.3	4451.6	4371.3	4344.0	4392.5	4779.1	5654.0	6804.8	6891.2	6727.5
30°	4974.7	4930.7	4906.5	4767.0	4668.4	4676.0	5003.5	5855.6	7255.1	7394.6	7186.9
32.5°	5632.7	5564.5	5499.3	5270.4	5089.9	5030.8	5293.1	6134.6	7743.3	7966.2	7699.3
35°	6369.6	6315.0	6245.3	5892.0	5614.5	5478.1	5684.3	6524.3	8314.9	8668.2	8321.0
37.5°	7079.2	7032.2	7065.6	6589.5	6231.6	6033.0	6196.8	7047.4	9020.0	9541.5	9100.3
40°	7813.1	7776.7	7781.2	7326.4	6909.4	6686.5	6818.4	7703.9	9828.1	10580.2	10037.4
42.5°	8610.6	8583.3	8492.3	8089.0	7620.5	7412.8	7534.1	8462.0	10695.4	11762.8	11065.3
45°	9503.6	9487.0	9402.1	8939.6	8402.9	8169.4	8333.1	9299.0	11567.2	12875.7	12097.9
47.5°	10275.4	10289.0	10278.4	9888.8	9332.3	8989.6	9185.2	10172.3	12378.4	13921.9	13088.0
50°	10646.9	10718.1	10822.8	10701.5	10355.8	10007.0	10044.9	11015.3	13151.7	14902.9	14037.1
52.5°	10452.8	10587.7	10872.8	11066.9	11200.3	11127.5	11025.9	11852.3	13879.4	15788.4	14934.7
55°	9729.6	9919.1	10392.1	10860.7	11541.4	12070.6	12204.0	12780.2	14589.0	16567.7	15783.8
57.5°	8412.0	8719.8	9144.3	10091.9	11238.2	12527.0	13577.7	14067.5	15341.1	17400.1	16672.3
60°	6152.8	6565.2	7092.9	8502.9	10176.8	12282.9	14746.7	16044.6	16410.0	18478.1	17829.2
62.5°	3937.6	4192.3	4677.5	6005.7	7929.8	11032.0	15104.5	18516.0	18221.9	20246.0	19563.7
65°	2695.8	2859.6	3303.8	4049.8	5126.3	8211.8	14146.3	20368.9	21099.7	23048.0	22529.5
67.5°	1959.0	2083.3	2462.3	3115.8	3340.2	4859.5	10977.4	20283.9	23897.1	25934.9	25128.3
70°	1428.3	1516.2	1834.6	2462.3	2570.0	2703.4	6650.1	17242.4	23836.4	26702.1	25736.3
72.5°	1058.3	1119.0	1332.8	1910.4	2080.2	1825.5	3291.7	12531.5	20482.6	24151.8	23377.0
75°	765.7	811.2	968.9	1461.6	1664.8	1390.4	1642.1	7323.3	14287.3	16989.2	17125.7
77.5°	585.3	620.1	723.2	1070.4	1332.8	1043.2	1018.9	3369.0	6774.5	6807.8	7189.9
80°	470.0	492.8	548.9	753.6	1021.9	780.9	664.1	1360.0	2140.9	1811.9	1901.3
82.5°	345.7	383.6	464.0	529.2	730.8	538.3	404.8	686.8	814.2	700.5	706.6
85°	197.1	222.9	280.5	379.1	467.0	329.0	232.0	304.8	379.1	310.8	277.5
87.5°	69.7	91.0	98.6	148.6	203.2	136.5	89.5	87.9	124.3	92.5	77.3
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°	4189.3	4189.3	4189.3	4189.3	4189.3	4189.3	4189.3	4189.3	4189.3	4189.3	4189.3
2.5°	4219.6	4212.0	4181.7	4140.8	4098.3	4057.4	4043.7	4014.9	3995.2	3984.6	3996.7
5°	4304.5	4280.3	4209.0	4118.0	4022.5	3919.4	3846.6	3779.9	3731.4	3685.9	3704.1
7.5°	4425.8	4383.4	4260.6	4101.4	3931.5	3760.2	3632.9	3535.8	3470.6	3428.2	3437.3
10°	4566.8	4501.6	4313.6	4075.6	3813.3	3567.7	3417.6	3334.2	3293.2	3270.5	3276.5
12.5°	4729.1	4636.6	4368.2	4016.5	3632.9	3352.4	3249.3	3225.0	3226.5	3228.0	3231.1
15°	4929.2	4800.3	4412.2	3887.6	3397.8	3187.1	3168.9	3208.3	3249.3	3269.0	3267.4
17.5°	5155.1	4973.2	4419.8	3675.3	3167.4	3081.0	3138.6	3223.5	3285.6	3312.9	3319.0
20°	5397.7	5149.1	4365.2	3375.1	2977.8	2994.5	3097.6	3206.8	3275.0	3309.9	3319.0
22.5°	5675.2	5337.1	4234.8	3059.7	2823.2	2900.5	3021.8	3128.0	3199.2	3234.1	3243.2
25°	5992.1	5547.8	4030.1	2794.4	2689.8	2794.4	2915.7	3003.6	3061.2	3093.1	3102.2
27.5°	6343.8	5767.7	3757.2	2583.6	2573.0	2685.2	2785.3	2853.5	2883.8	2908.1	2917.2
30°	6697.1	5967.8	3426.6	2424.4	2471.4	2577.6	2648.8	2679.2	2688.3	2692.8	2703.4
32.5°	7079.2	6140.7	3079.4	2292.5	2374.4	2472.9	2515.4	2529.0	2486.6	2457.8	2466.9
35°	7541.7	6325.7	2739.8	2187.9	2278.9	2363.8	2377.4	2365.3	2315.3	2256.1	2259.2
37.5°	8113.3	6556.1	2468.4	2113.6	2189.4	2245.5	2228.8	2225.8	2230.4	2160.6	2165.2
40°	8813.8	6856.3	2269.8	2056.0	2116.6	2128.8	2081.8	2107.5	2130.3	2024.1	2027.2
42.5°	9591.6	7218.7	2143.9	2016.6	2056.0	2027.2	1954.4	1983.2	1980.2	1840.7	1839.2
45°	10384.6	7612.9	2100.0	1987.8	1999.9	1942.3	1861.9	1869.5	1805.8	1680.0	1684.5
47.5°	11173.0	8035.9	2127.3	1963.5	1930.1	1864.9	1802.8	1769.4	1675.4	1581.4	1581.4
50°	11946.3	8480.2	2227.3	1915.0	1834.6	1796.7	1751.2	1692.1	1592.0	1511.7	1505.6
52.5°	12663.4	8927.5	2339.5	1834.6	1714.8	1737.6	1708.8	1640.5	1542.0	1460.1	1461.6
55°	13342.7	9374.8	2383.5	1723.9	1602.6	1686.0	1669.4	1543.5	1425.2	1358.5	1352.5
57.5°	14082.6	9913.0	2335.0	1582.9	1511.7	1626.9	1563.2	1423.7	1355.5	1305.5	1300.9
60°	15107.6	10757.6	2230.4	1408.6	1425.2	1539.0	1429.8	1372.2	1297.9	1241.8	1238.7
62.5°	16810.3	12332.9	2062.1	1235.7	1323.7	1408.6	1366.1	1308.5	1232.7	1178.1	1178.1
65°	19327.2	14522.3	1745.2	1100.8	1209.9	1281.2	1297.9	1240.3	1161.4	1103.8	1106.8
67.5°	21449.9	15896.0	1320.6	988.6	1093.2	1178.1	1225.1	1169.0	1085.6	1029.5	1031.0
70°	21333.2	14898.3	1008.3	877.9	990.1	1076.5	1137.2	1093.2	1003.7	950.7	955.2
72.5°	18948.2	12463.3	815.7	765.7	885.5	970.4	1043.2	1009.8	918.8	867.3	867.3
75°	13920.4	8847.1	652.0	652.0	755.1	859.7	940.1	918.8	835.4	799.0	788.4
77.5°	5867.8	3711.7	511.0	541.3	627.7	738.4	838.5	846.0	773.3	818.8	742.9
80°	1560.2	1023.4	389.7	426.1	492.8	609.5	729.3	726.3	647.4	605.0	562.5
82.5°	594.4	403.3	277.5	300.2	356.3	467.0	577.7	595.9	517.0	447.3	447.3
85°	228.9	172.8	171.3	180.4	207.7	309.3	436.7	451.8	389.7	330.5	341.1
87.5°	59.1	51.6	63.7	60.6	95.5	165.3	250.2	259.3	238.0	138.0	197.1
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)