

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: P884957

Luminaire Tested: **NAV-SB6A-735-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884957
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-SB6A-735-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26978 lumens
Efficiency: N/A
Efficacy: 157.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

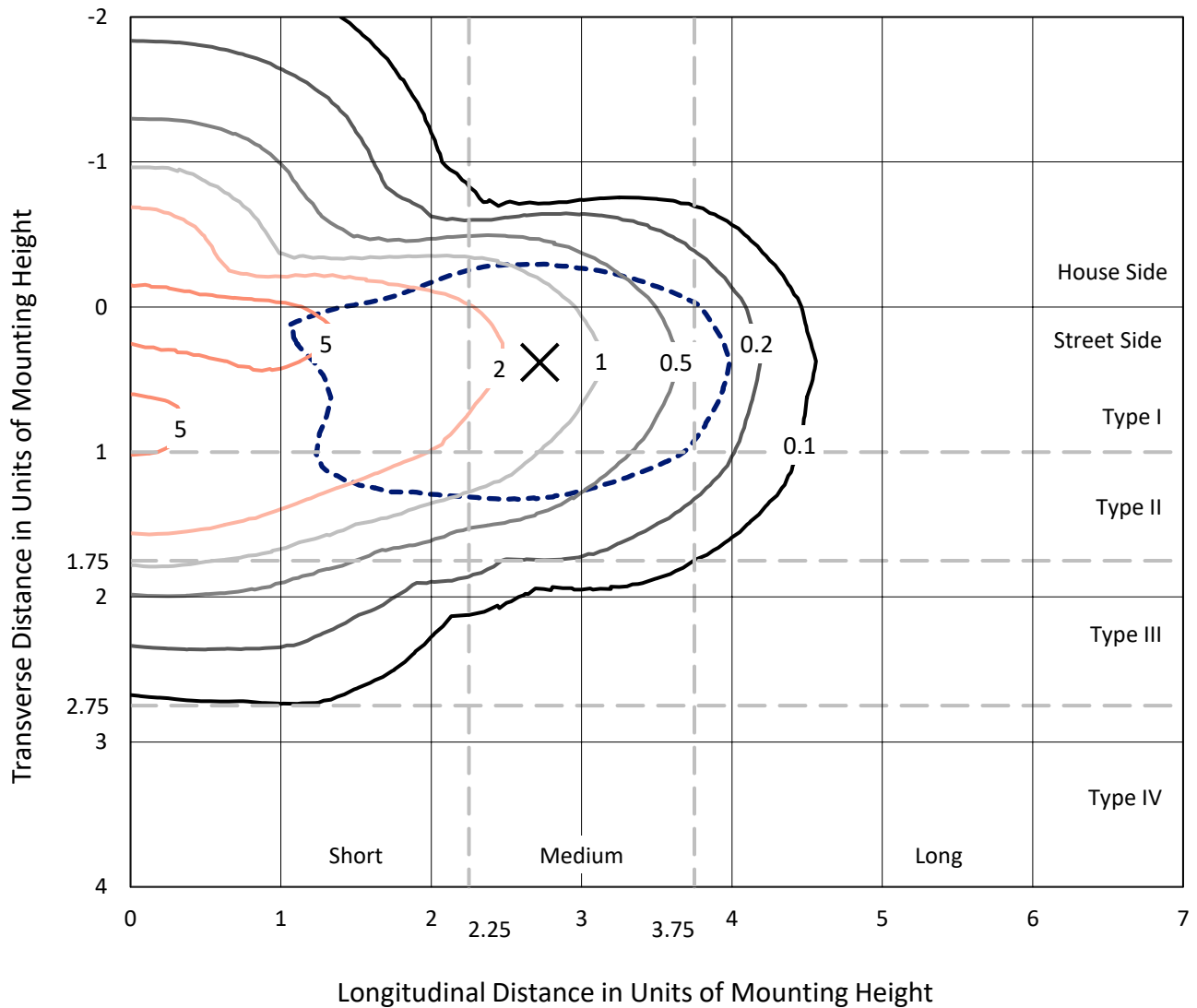
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

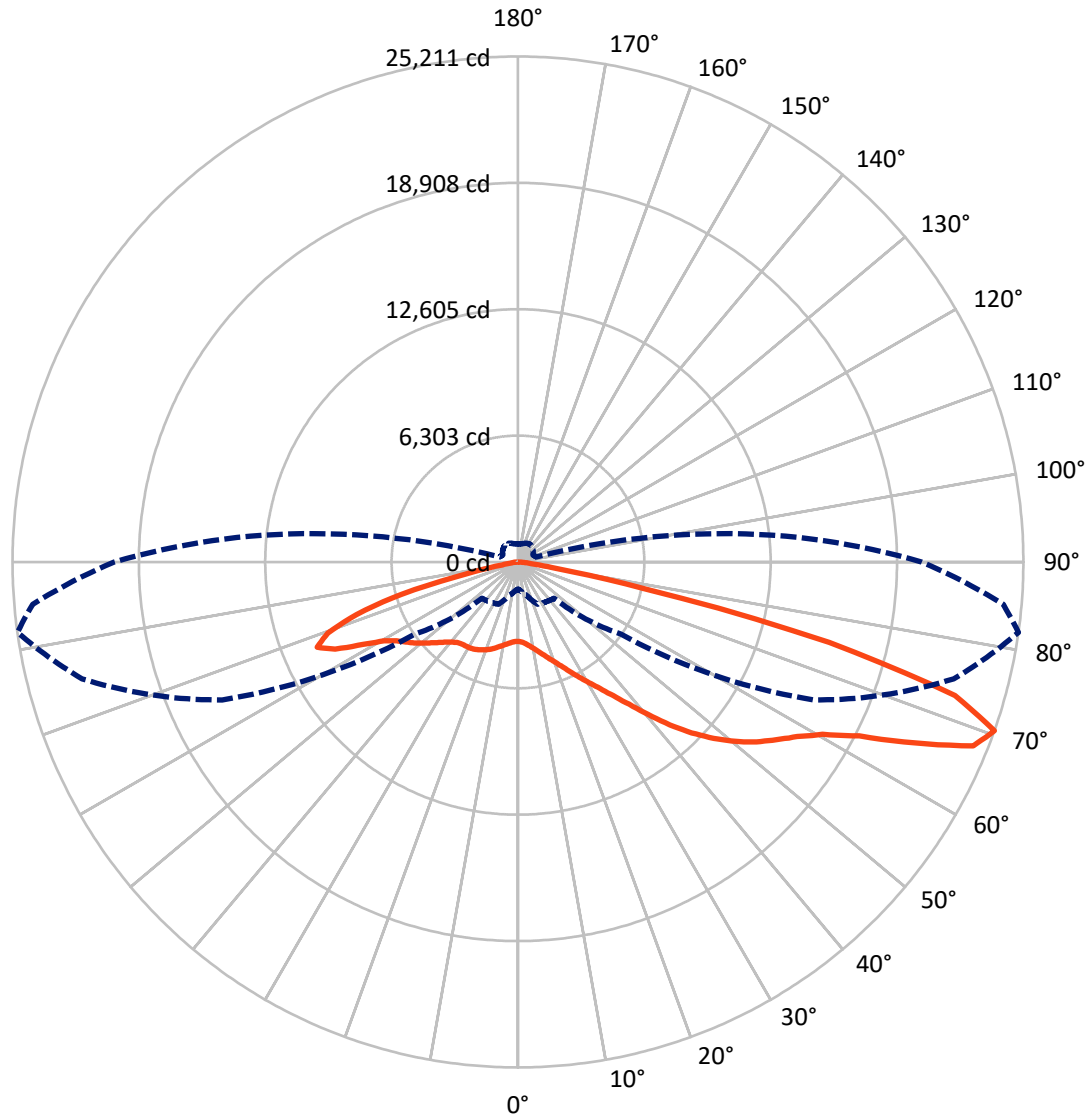
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	6650.7	0.0	6650.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	20327.3	0.0	20327.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	26978.0	0.0	26978.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.5	1.4
10°-20°	1072.9	4.0
20°-30°	1794.9	6.7
30°-40°	2804.2	10.4
40°-50°	4465.9	16.6
50°-60°	6214.9	23.0
60°-70°	6501.1	24.1
70°-80°	3397.8	12.6
80°-90°	352.8	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°	26978.0	100.0
0°-180°	26978.0	100.0

Coefficient of Utilization



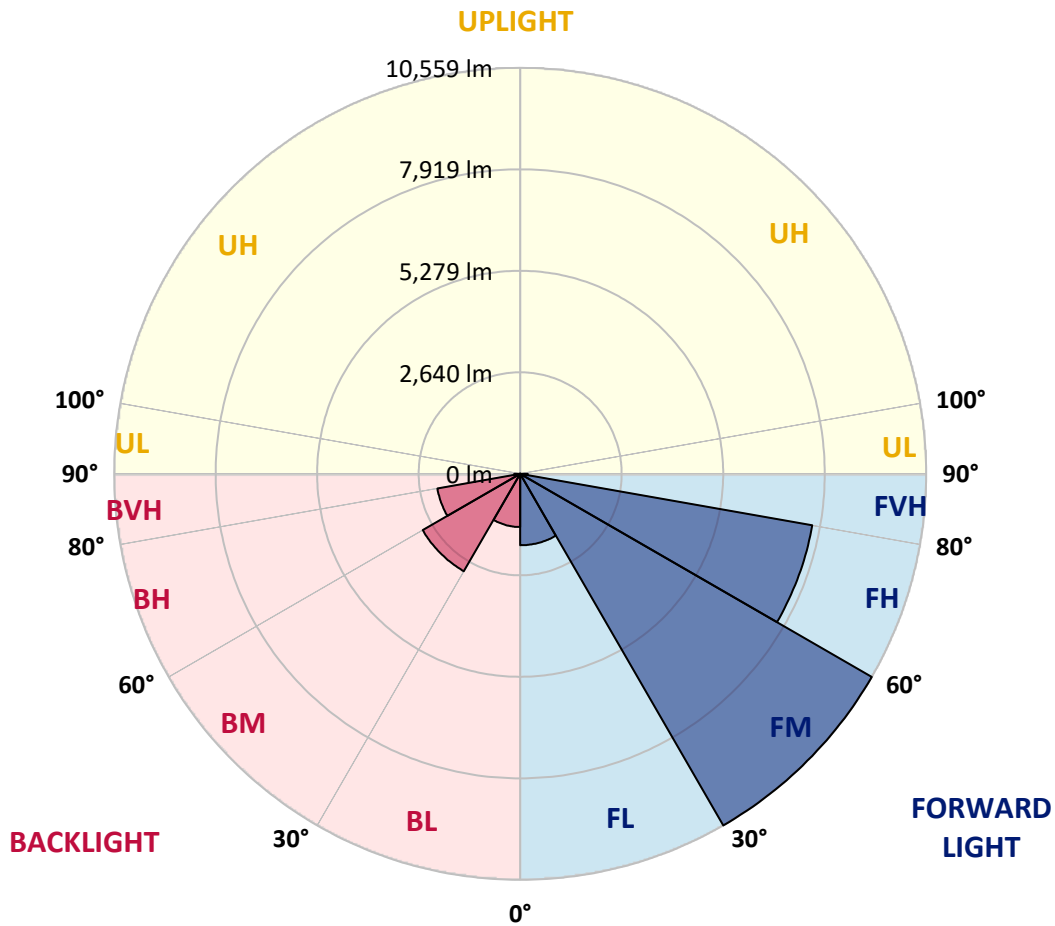
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1857.7	6.9			
FM (30°-60°)	10558.9	39.1			
FH (60°-80°)	7713.1	28.6			G4/12000
FVH (80°-90°)	197.5	0.7			G2/225
BL (0°-30°)	1383.6	5.1	B3/2500		
BM (30°-60°)	2926.1	10.8	B3/5000		
BH (60°-80°)	2185.8	8.1	B3/2500		G3/2500
BVH (80°-90°)	155.3	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°	3955.3	3955.3	3955.3	3955.3	3955.3	3955.3	3955.3	3955.3	3955.3	3955.3	3955.3
2.5°	4049.8	4072.7	4065.5	4058.4	4058.4	4048.4	4046.9	4032.6	4021.2	4002.6	3998.3
5°	4101.3	4125.7	4122.8	4128.5	4147.1	4151.4	4155.7	4147.1	4124.2	4101.3	4091.3
7.5°	4055.5	4082.7	4091.3	4125.7	4182.9	4234.5	4273.1	4288.9	4267.4	4234.5	4218.7
10°	3900.9	3931.0	3961.0	4042.6	4144.3	4266.0	4369.0	4430.6	4426.3	4394.8	4367.6
12.5°	3587.4	3618.9	3683.3	3842.2	4028.3	4243.0	4434.9	4563.7	4608.1	4585.2	4537.9
15°	3336.9	3364.1	3412.8	3576.0	3817.9	4144.3	4459.2	4709.7	4822.8	4809.9	4752.7
17.5°	3329.7	3341.2	3371.2	3448.6	3634.6	3989.7	4433.4	4852.9	5069.0	5067.6	4996.0
20°	3455.7	3460.0	3477.2	3492.9	3598.9	3872.3	4367.6	4971.7	5345.3	5345.3	5268.0
22.5°	3630.4	3627.5	3644.7	3630.4	3681.9	3862.3	4326.1	5076.2	5653.1	5676.0	5578.7
25°	3892.3	3878.0	3873.7	3840.8	3850.8	3955.3	4371.9	5195.0	6018.1	6065.4	5943.7
27.5°	4241.6	4218.7	4203.0	4127.1	4101.3	4147.1	4512.2	5338.2	6424.7	6506.3	6351.7
30°	4696.8	4655.3	4632.4	4500.7	4407.7	4414.8	4724.0	5528.6	6849.9	6981.6	6785.4
32.5°	5318.1	5253.7	5192.2	4976.0	4805.6	4749.8	4997.5	5792.0	7310.8	7521.2	7269.3
35°	6013.8	5962.3	5896.5	5562.9	5300.9	5172.1	5366.8	6159.9	7850.5	8184.0	7856.2
37.5°	6683.8	6639.4	6670.9	6221.4	5883.6	5696.1	5850.7	6653.7	8516.2	9008.6	8592.0
40°	7376.7	7342.3	7346.6	6917.1	6523.5	6313.0	6437.6	7273.6	9279.2	9989.2	9476.7
42.5°	8129.6	8103.9	8018.0	7637.2	7194.9	6998.7	7113.3	7989.4	10098.0	11105.8	10447.3
45°	8972.8	8957.1	8876.9	8440.3	7933.5	7713.1	7867.7	8779.6	10921.1	12156.5	11422.2
47.5°	9701.5	9714.3	9704.3	9336.4	8811.1	8487.5	8672.2	9604.1	11687.0	13144.3	12357.0
50°	10052.2	10119.5	10218.2	10103.7	9777.3	9448.1	9483.9	10400.1	12417.1	14070.5	13253.1
52.5°	9869.0	9996.4	10265.5	10448.7	10574.7	10506.0	10410.1	11190.3	13104.2	14906.5	14100.6
55°	9186.1	9365.1	9811.7	10254.0	10896.8	11396.4	11522.4	12066.4	13774.2	15642.3	14902.2
57.5°	7942.1	8232.7	8633.5	9528.3	10610.5	11827.3	12819.3	13281.7	14484.2	16428.2	15741.1
60°	5809.1	6198.5	6696.7	8028.0	9608.4	11596.8	13923.0	15148.4	15493.4	17446.0	16833.3
62.5°	3717.7	3958.2	4416.3	5670.3	7486.9	10415.8	14260.9	17481.8	17204.1	19115.2	18471.0
65°	2545.3	2699.9	3119.3	3823.6	4840.0	7753.2	13356.2	19231.1	19921.1	21760.7	21271.1
67.5°	1849.5	1966.9	2324.8	2941.8	3153.7	4588.0	10364.3	19151.0	22562.3	24486.3	23724.7
70°	1348.5	1431.5	1732.1	2324.8	2426.4	2552.4	6278.7	16279.3	22505.1	25210.6	24298.8
72.5°	999.2	1056.5	1258.3	1803.7	1964.1	1723.6	3107.8	11831.6	19338.5	22802.8	22071.3
75°	722.9	765.9	914.7	1380.0	1571.8	1312.7	1550.3	6914.3	13489.3	16040.3	16169.1
77.5°	552.6	585.5	682.8	1010.7	1258.3	984.9	962.0	3180.9	6396.1	6427.6	6788.3
80°	443.8	465.2	518.2	711.5	964.8	737.2	627.0	1284.1	2021.3	1710.7	1795.1
82.5°	326.4	362.2	438.0	499.6	690.0	508.2	382.2	648.5	768.7	661.4	667.1
85°	186.1	210.4	264.8	357.9	440.9	310.6	219.0	287.7	357.9	293.5	262.0
87.5°	65.9	85.9	93.0	140.3	191.8	128.8	84.5	83.0	117.4	87.3	73.0
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°	3955.3	3955.3	3955.3	3955.3	3955.3	3955.3	3955.3	3955.3	3955.3	3955.3	3955.3
2.5°	3983.9	3976.8	3948.2	3909.5	3869.4	3830.8	3817.9	3790.7	3772.1	3762.1	3773.5
5°	4064.1	4041.2	3973.9	3888.0	3797.8	3700.5	3631.8	3568.8	3523.0	3480.0	3497.2
7.5°	4178.6	4138.5	4022.6	3872.3	3712.0	3550.2	3429.9	3338.3	3276.8	3236.7	3245.3
10°	4311.8	4250.2	4072.7	3847.9	3600.3	3368.4	3226.7	3147.9	3109.3	3087.8	3093.5
12.5°	4464.9	4377.6	4124.2	3792.1	3429.9	3165.1	3067.8	3044.9	3046.3	3047.7	3050.6
15°	4653.9	4532.2	4165.7	3670.4	3208.1	3009.1	2991.9	3029.1	3067.8	3086.4	3084.9
17.5°	4867.2	4695.4	4172.9	3470.0	2990.5	2908.9	2963.3	3043.4	3102.1	3127.9	3133.6
20°	5096.2	4861.5	4121.4	3186.6	2811.5	2827.3	2924.6	3027.7	3092.1	3125.0	3133.6
22.5°	5358.2	5039.0	3998.3	2888.8	2665.5	2738.5	2853.0	2953.2	3020.5	3053.4	3062.0
25°	5657.4	5238.0	3805.0	2638.3	2539.5	2638.3	2752.8	2835.9	2890.3	2920.3	2928.9
27.5°	5989.5	5445.5	3547.3	2439.3	2429.3	2535.2	2629.7	2694.1	2722.8	2745.7	2754.3
30°	6323.1	5634.5	3235.3	2289.0	2333.4	2433.6	2500.9	2529.5	2538.1	2542.4	2552.4
32.5°	6683.8	5797.7	2907.4	2164.5	2241.8	2334.8	2374.9	2387.8	2347.7	2320.5	2329.1
35°	7120.4	5972.3	2586.8	2065.7	2151.6	2231.8	2244.6	2233.2	2185.9	2130.1	2133.0
37.5°	7660.1	6189.9	2330.5	1995.6	2067.1	2120.1	2104.3	2101.5	2105.8	2039.9	2044.2
40°	8321.5	6473.4	2143.0	1941.2	1998.4	2009.9	1965.5	1989.8	2011.3	1911.1	1914.0
42.5°	9055.8	6815.5	2024.2	1903.9	1941.2	1914.0	1845.2	1872.4	1869.6	1737.9	1736.4
45°	9804.5	7187.7	1982.7	1876.7	1888.2	1833.8	1757.9	1765.1	1704.9	1586.1	1590.4
47.5°	10548.9	7587.1	2008.4	1853.8	1822.3	1760.8	1702.1	1670.6	1581.8	1493.1	1493.1
50°	11279.0	8006.5	2102.9	1808.0	1732.1	1696.4	1653.4	1597.6	1503.1	1427.2	1421.5
52.5°	11956.1	8428.8	2208.8	1732.1	1619.1	1640.5	1613.3	1548.9	1455.9	1378.6	1380.0
55°	12597.4	8851.1	2250.4	1627.6	1513.1	1591.9	1576.1	1457.3	1345.6	1282.6	1276.9
57.5°	13296.0	9359.3	2204.6	1494.5	1427.2	1536.0	1475.9	1344.2	1279.8	1232.5	1228.3
60°	14263.7	10156.7	2105.8	1329.9	1345.6	1453.0	1349.9	1295.5	1225.4	1172.4	1169.6
62.5°	15871.4	11644.0	1946.9	1166.7	1249.7	1329.9	1289.8	1235.4	1163.8	1112.3	1112.3
65°	18247.7	13711.2	1647.7	1039.3	1142.4	1209.6	1225.4	1171.0	1096.6	1042.2	1045.0
67.5°	20251.8	15008.1	1246.9	933.4	1032.1	1112.3	1156.7	1103.7	1025.0	972.0	973.4
70°	20141.6	14066.2	952.0	828.9	934.8	1016.4	1073.6	1032.1	947.7	897.6	901.9
72.5°	17889.8	11767.2	770.2	722.9	836.0	916.2	984.9	953.4	867.5	818.8	818.8
75°	13142.9	8353.0	615.6	615.6	712.9	811.7	887.5	867.5	788.8	754.4	744.4
77.5°	5540.0	3504.4	482.4	511.1	592.7	697.2	791.6	798.8	730.1	773.0	701.4
80°	1473.0	966.3	367.9	402.3	465.2	575.5	688.6	685.7	611.3	571.2	531.1
82.5°	561.2	380.8	262.0	283.4	336.4	440.9	545.4	562.6	488.2	422.3	422.3
85°	216.2	163.2	161.8	170.4	196.1	292.0	412.3	426.6	367.9	312.1	322.1
87.5°	55.8	48.7	60.1	57.3	90.2	156.0	236.2	244.8	224.7	130.3	186.1
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)