

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: P885127

Luminaire Tested: **NAV-SB6B-735-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885127
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-735-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 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: 33866 lumens
Efficiency: N/A
Efficacy: 153.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

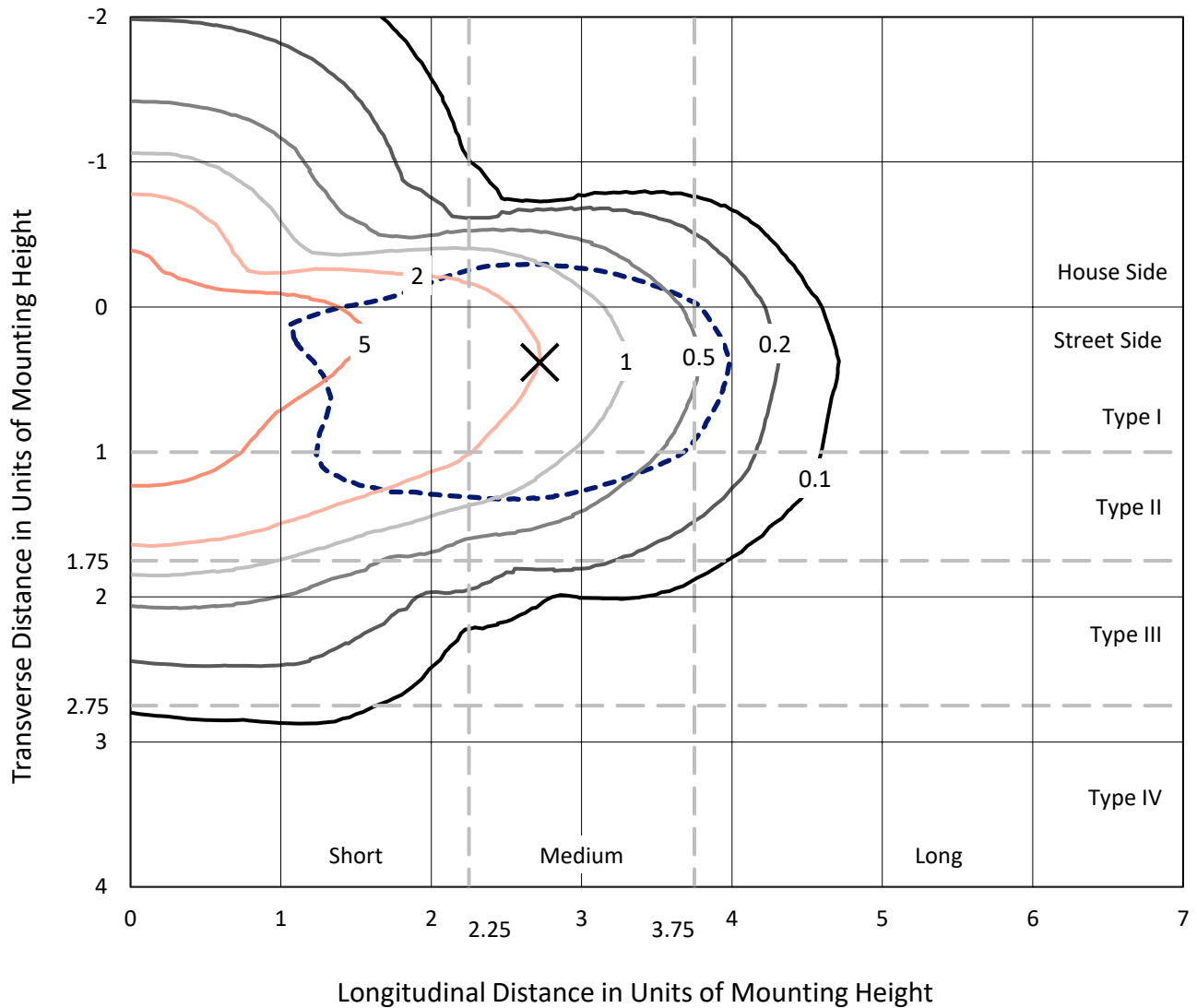
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P885127
 CATALOG NUMBER: NAV-SB6B-735-U-T2

Iso-Footcandle Lines of Horizontal Illumination

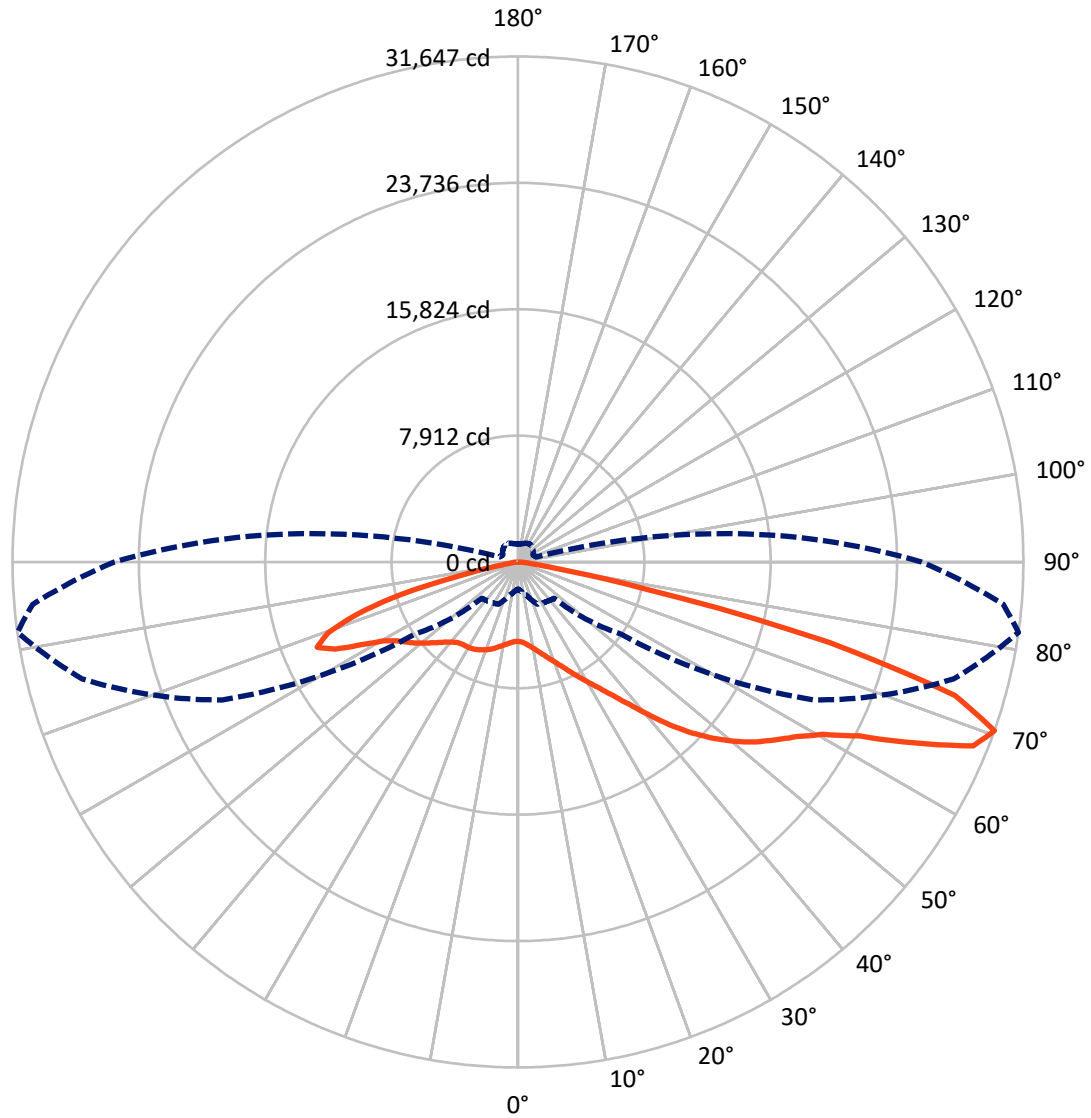
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Medium - N/A

REPORT NUMBER: P885127
CATALOG NUMBER: NAV-SB6B-735-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P885127
 CATALOG NUMBER: NAV-SB6B-735-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8348.8	0.0	8348.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	25517.2	0.0	25517.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	33866.0	0.0	33866.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.8	1.4
10°-20°	1346.9	4.0
20°-30°	2253.2	6.7
30°-40°	3520.1	10.4
40°-50°	5606.2	16.6
50°-60°	7801.7	23.0
60°-70°	8160.9	24.1
70°-80°	4265.3	12.6
80°-90°	442.9	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°	33866.0	100.0
0°-180°	33866.0	100.0

Coefficient of Utilization

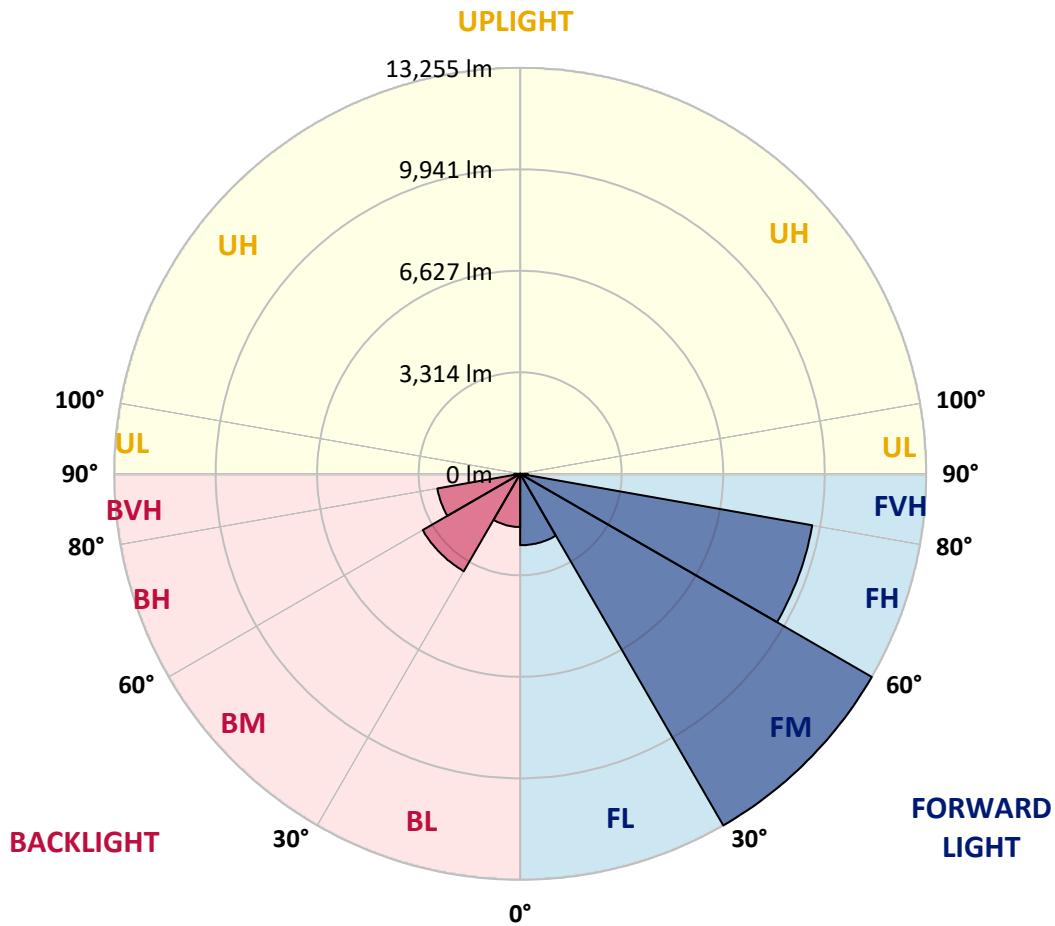


REPORT NUMBER: P885127
 CATALOG NUMBER: NAV-SB6B-735-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2332.1	6.9			
FM (30°-60°)	13254.8	39.1			
FH (60°-80°)	9682.4	28.6			G4/12000
FVH (80°-90°)	247.9	0.7			G3/500
BL (0°-30°)	1736.9	5.1	B3/2500		
BM (30°-60°)	3673.1	10.8	B3/5000		
BH (60°-80°)	2743.8	8.1	B4/5000		G4/5000
BVH (80°-90°)	195.0	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



REPORT NUMBER: P885127
 CATALOG NUMBER: NAV-SB6B-735-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2
2.5°	5083.8	5112.5	5103.5	5094.6	5094.6	5082.0	5080.2	5062.2	5047.8	5024.5	5019.1
5°	5148.5	5179.0	5175.4	5182.6	5206.0	5211.4	5216.8	5206.0	5177.2	5148.5	5135.9
7.5°	5091.0	5125.1	5135.9	5179.0	5250.9	5315.6	5364.1	5383.9	5356.9	5315.6	5295.8
10°	4896.9	4934.6	4972.4	5074.8	5202.4	5355.1	5484.5	5561.8	5556.4	5516.9	5482.7
12.5°	4503.3	4542.9	4623.7	4823.2	5056.8	5326.4	5567.2	5728.9	5784.6	5755.9	5696.6
15°	4188.9	4223.0	4284.1	4489.0	4792.7	5202.4	5597.7	5912.2	6054.2	6038.0	5966.1
17.5°	4179.9	4194.3	4232.0	4329.0	4562.6	5008.3	5565.4	6091.9	6363.3	6361.5	6271.6
20°	4338.0	4343.4	4365.0	4384.7	4517.7	4861.0	5482.7	6241.1	6710.1	6710.1	6613.1
22.5°	4557.3	4553.7	4575.2	4557.3	4621.9	4848.4	5430.6	6372.2	7096.5	7125.2	7003.0
25°	4886.1	4868.1	4862.7	4821.4	4834.0	4965.2	5488.1	6521.4	7554.7	7614.0	7461.2
27.5°	5324.6	5295.8	5276.1	5180.8	5148.5	5206.0	5664.2	6701.1	8065.0	8167.5	7973.4
30°	5896.0	5843.9	5815.2	5649.8	5533.0	5542.0	5930.2	6940.1	8598.8	8764.1	8517.9
32.5°	6675.9	6595.1	6517.8	6246.5	6032.6	5962.5	6273.4	7270.8	9177.4	9441.6	9125.3
35°	7549.3	7484.6	7401.9	6983.2	6654.4	6492.7	6737.0	7732.6	9854.9	10273.6	9862.1
37.5°	8390.3	8334.6	8374.1	7809.9	7385.8	7150.4	7344.4	8352.6	10690.5	11308.7	10785.7
40°	9260.1	9216.9	9222.3	8683.2	8189.0	7924.9	8081.2	9130.7	11648.3	12539.6	11896.3
42.5°	10205.3	10173.0	10065.1	9587.1	9031.8	8785.7	8929.4	10029.2	12676.2	13941.3	13114.7
45°	11263.8	11244.0	11143.3	10595.3	9959.1	9682.4	9876.4	11021.2	13709.5	15260.3	14338.5
47.5°	12178.4	12194.6	12182.0	11720.2	11060.7	10654.6	10886.4	12056.2	14670.9	16500.3	15511.9
50°	12618.7	12703.2	12827.2	12683.4	12273.7	11860.4	11905.3	13055.4	15587.4	17663.0	16636.9
52.5°	12388.7	12548.6	12886.5	13116.5	13274.6	13188.4	13068.0	14047.3	16450.0	18712.4	17700.7
55°	11531.5	11756.1	12316.8	12872.1	13679.0	14306.1	14464.3	15147.1	17291.0	19636.1	18707.0
57.5°	9969.9	10334.7	10837.9	11961.0	13319.5	14847.0	16092.4	16672.8	18182.3	20622.7	19760.1
60°	7292.3	7781.1	8406.5	10077.7	12061.6	14557.7	17477.9	19016.1	19449.2	21900.3	21131.2
62.5°	4666.9	4968.8	5543.8	7118.0	9398.4	13075.2	17902.0	21945.3	21596.6	23995.7	23187.0
65°	3195.1	3389.2	3915.7	4799.9	6075.7	9732.7	16766.2	24141.2	25007.4	27316.6	26702.0
67.5°	2321.8	2469.1	2918.4	3692.9	3958.8	5759.5	13010.5	24040.6	28322.9	30738.1	29782.1
70°	1692.8	1797.0	2174.4	2918.4	3046.0	3204.1	7881.8	20435.8	28251.0	31647.4	30502.7
72.5°	1254.3	1326.2	1579.6	2264.3	2465.5	2163.6	3901.3	14852.4	24276.0	28624.8	27706.5
75°	907.5	961.4	1148.3	1732.3	1973.1	1647.9	1946.2	8679.6	16933.4	20135.7	20297.4
77.5°	693.7	735.0	857.2	1268.7	1579.6	1236.4	1207.6	3993.0	8029.1	8068.6	8521.5
80°	557.1	584.0	650.5	893.1	1211.2	925.5	787.1	1611.9	2537.4	2147.4	2253.5
82.5°	409.7	454.6	549.9	627.2	866.2	637.9	479.8	814.1	965.0	830.2	837.4
85°	233.6	264.2	332.4	449.3	553.5	390.0	274.9	361.2	449.3	368.4	328.9
87.5°	82.7	107.8	116.8	176.1	240.8	161.7	106.0	104.2	147.4	109.6	91.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P885127
 CATALOG NUMBER: NAV-SB6B-735-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2
2.5°	5001.1	4992.1	4956.2	4907.7	4857.4	4808.8	4792.7	4758.5	4735.2	4722.6	4737.0
5°	5101.8	5073.0	4988.5	4880.7	4767.5	4645.3	4559.1	4480.0	4422.5	4368.6	4390.1
7.5°	5245.5	5195.2	5049.6	4861.0	4659.7	4456.6	4305.7	4190.7	4113.4	4063.1	4073.9
10°	5412.6	5335.4	5112.5	4830.4	4519.5	4228.4	4050.5	3951.7	3903.1	3876.2	3883.4
12.5°	5604.9	5495.3	5177.2	4760.3	4305.7	3973.2	3851.0	3822.3	3824.1	3825.9	3829.5
15°	5842.1	5689.4	5229.3	4607.6	4027.1	3777.3	3755.8	3802.5	3851.0	3874.4	3872.6
17.5°	6109.9	5894.2	5238.3	4356.0	3754.0	3651.6	3719.8	3820.5	3894.2	3926.5	3933.7
20°	6397.4	6102.7	5173.6	4000.2	3529.4	3549.1	3671.3	3800.7	3881.6	3922.9	3933.7
22.5°	6726.3	6325.5	5019.1	3626.4	3346.1	3437.7	3581.5	3707.3	3791.7	3833.1	3843.8
25°	7101.8	6575.3	4776.5	3311.9	3187.9	3311.9	3455.7	3559.9	3628.2	3665.9	3676.7
27.5°	7518.8	6835.9	4453.0	3062.1	3049.6	3182.5	3301.1	3382.0	3417.9	3446.7	3457.5
30°	7937.5	7073.1	4061.3	2873.4	2929.2	3054.9	3139.4	3175.3	3186.1	3191.5	3204.1
32.5°	8390.3	7277.9	3649.8	2717.1	2814.1	2930.9	2981.3	2997.4	2947.1	2913.0	2923.8
35°	8938.4	7497.2	3247.2	2593.1	2700.9	2801.6	2817.7	2803.4	2744.1	2674.0	2677.6
37.5°	9615.9	7770.3	2925.6	2505.1	2594.9	2661.4	2641.6	2638.0	2643.4	2560.8	2566.2
40°	10446.1	8126.1	2690.1	2436.8	2508.6	2523.0	2467.3	2497.9	2524.8	2399.0	2402.6
42.5°	11368.0	8555.6	2541.0	2390.0	2436.8	2402.6	2316.4	2350.5	2346.9	2181.6	2179.8
45°	12307.8	9022.9	2488.9	2355.9	2370.3	2302.0	2206.7	2215.7	2140.3	1991.1	1996.5
47.5°	13242.3	9524.2	2521.2	2327.1	2287.6	2210.3	2136.7	2097.1	1985.7	1874.3	1874.3
50°	14158.8	10050.8	2639.8	2269.6	2174.4	2129.5	2075.6	2005.5	1886.9	1791.6	1784.4
52.5°	15008.7	10580.9	2772.8	2174.4	2032.4	2059.4	2025.2	1944.4	1827.6	1730.5	1732.3
55°	15813.8	11111.0	2824.9	2043.2	1899.5	1998.3	1978.5	1829.4	1689.2	1610.1	1602.9
57.5°	16690.8	11748.9	2767.4	1876.1	1791.6	1928.2	1852.7	1687.4	1606.5	1547.2	1541.8
60°	17905.6	12749.9	2643.4	1669.4	1689.2	1824.0	1694.6	1626.3	1538.3	1471.8	1468.2
62.5°	19923.6	14617.0	2444.0	1464.6	1568.8	1669.4	1619.1	1550.8	1461.0	1396.3	1396.3
65°	22906.7	17211.9	2068.4	1304.6	1434.0	1518.5	1538.3	1470.0	1376.5	1308.2	1311.8
67.5°	25422.5	18840.0	1565.2	1171.7	1295.7	1396.3	1452.0	1385.5	1286.7	1220.2	1222.0
70°	25284.1	17657.6	1195.0	1040.5	1173.5	1275.9	1347.8	1295.7	1189.6	1126.7	1132.1
72.5°	22457.4	14771.5	966.8	907.5	1049.5	1150.1	1236.4	1196.8	1089.0	1027.9	1027.9
75°	16498.5	10485.6	772.7	772.7	894.9	1018.9	1114.2	1089.0	990.2	947.0	934.5
77.5°	6954.5	4399.1	605.6	641.5	744.0	875.2	993.8	1002.7	916.5	970.4	880.5
80°	1849.1	1213.0	461.8	505.0	584.0	722.4	864.4	860.8	767.3	717.0	666.7
82.5°	704.4	478.0	328.9	355.8	422.3	553.5	684.7	706.2	612.8	530.1	530.1
85°	271.4	204.9	203.1	213.8	246.2	366.6	517.5	535.5	461.8	391.8	404.3
87.5°	70.1	61.1	75.5	71.9	113.2	195.9	296.5	307.3	282.1	163.5	233.6
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)