

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: P885437

Luminaire Tested: **NAV-SB6D-722-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885437
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-SB6D-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48768 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

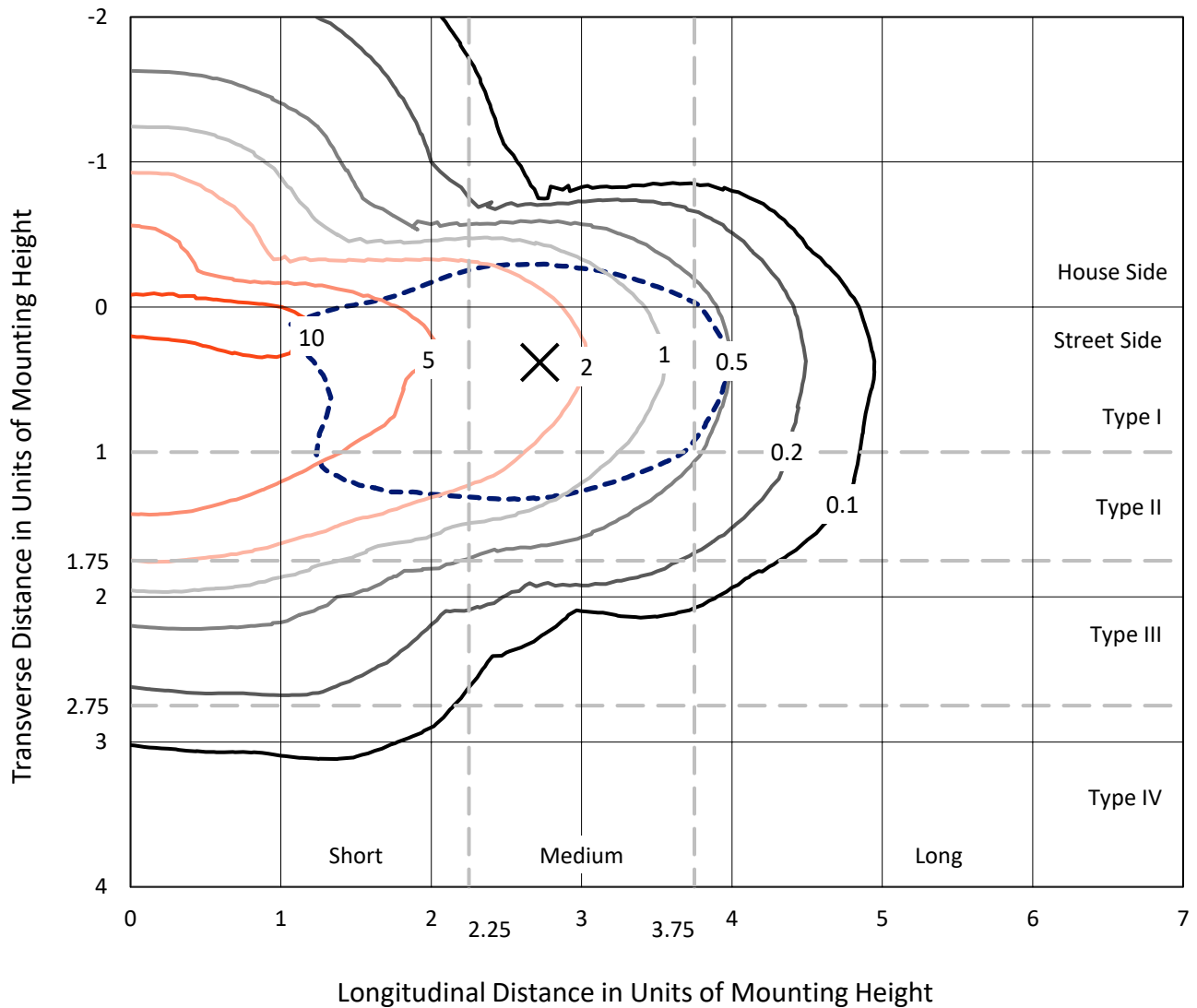
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P885437
 CATALOG NUMBER: NAV-SB6D-722-U-T2

Iso-Footcandle Lines of Horizontal Illumination

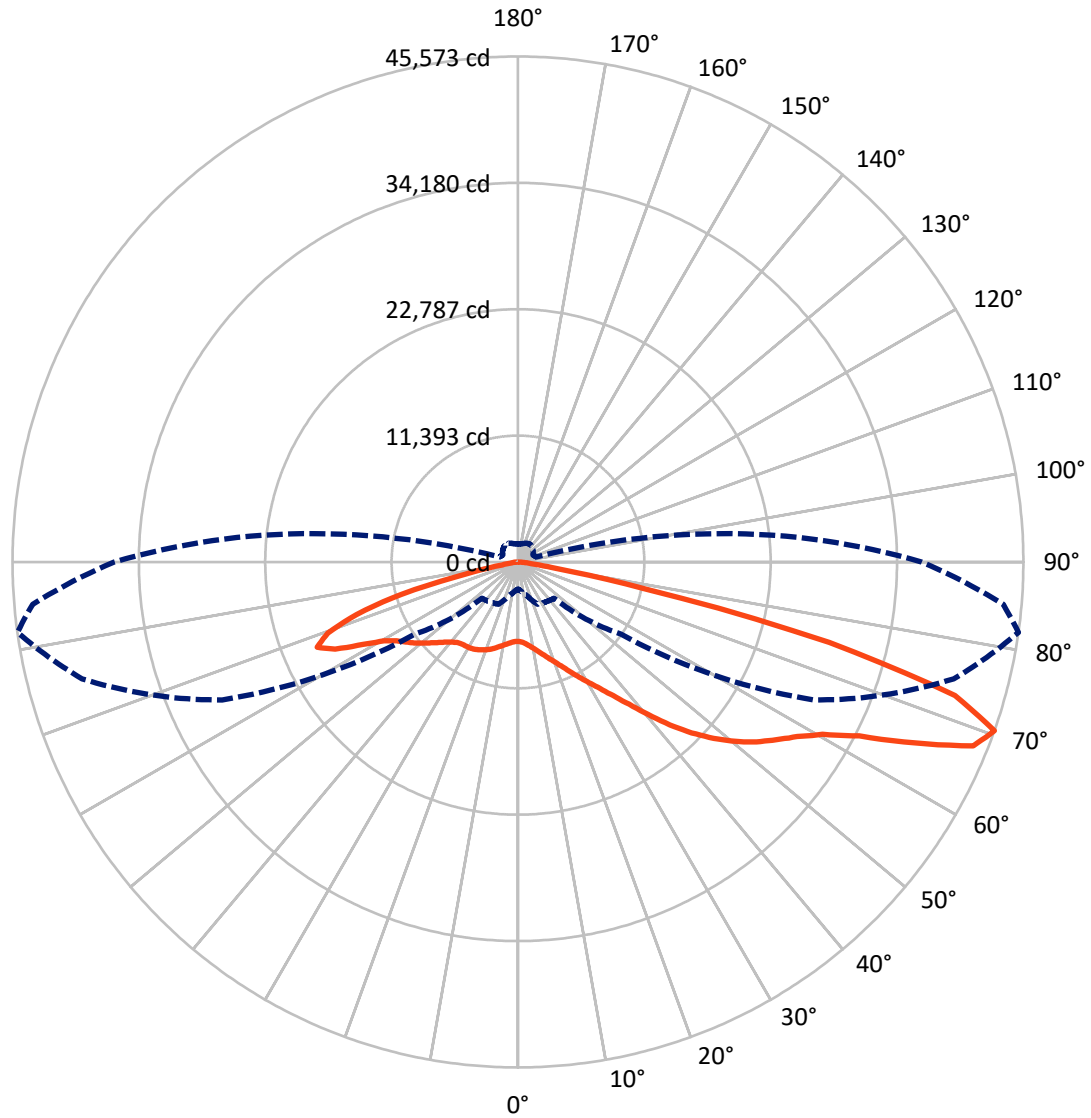
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Medium - N/A

REPORT NUMBER: P885437
CATALOG NUMBER: NAV-SB6D-722-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P885437
 CATALOG NUMBER: NAV-SB6D-722-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12022.5	0.0	12022.5
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	36745.5	0.0	36745.5
	% Fixture	75.3	0.0	75.3
Total	Lumens	48768.0	0.0	48768.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.1	1.4
10°-20°	1939.6	4.0
20°-30°	3244.7	6.7
30°-40°	5069.0	10.4
40°-50°	8073.0	16.6
50°-60°	11234.6	23.0
60°-70°	11751.9	24.1
70°-80°	6142.2	12.6
80°-90°	637.8	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°	48768.0	100.0
0°-180°	48768.0	100.0

Coefficient of Utilization

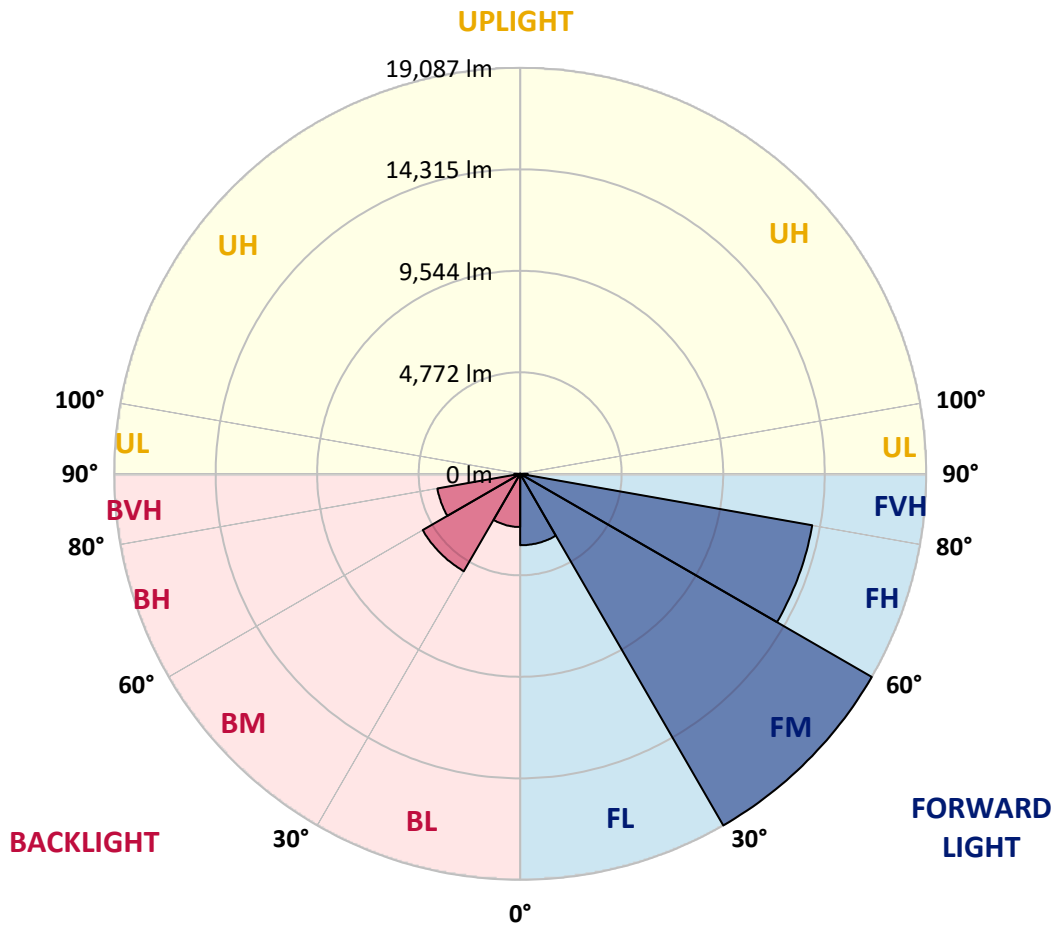


REPORT NUMBER: P885437
 CATALOG NUMBER: NAV-SB6D-722-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3358.2	6.9			
FM (30°-60°)	19087.3	39.1			
FH (60°-80°)	13942.9	28.6			G5
FVH (80°-90°)	357.0	0.7			G3/500
BL (0°-30°)	2501.1	5.1	B4/5000		
BM (30°-60°)	5289.4	10.8	B4/8500		
BH (60°-80°)	3951.2	8.1	B4/5000		G4/5000
BVH (80°-90°)	280.8	0.6			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 II Medium



REPORT NUMBER: P885437
 CATALOG NUMBER: NAV-SB6D-722-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	7150.0	7150.0	7150.0	7150.0	7150.0	7150.0	7150.0	7150.0	7150.0	7150.0	7150.0
2.5°	7320.8	7362.2	7349.3	7336.3	7336.3	7318.2	7315.6	7289.7	7269.0	7235.4	7227.6
5°	7414.0	7457.9	7452.8	7463.1	7496.8	7504.5	7512.3	7496.8	7455.4	7414.0	7395.8
7.5°	7331.1	7380.3	7395.8	7457.9	7561.5	7654.6	7724.5	7752.9	7714.1	7654.6	7626.1
10°	7051.7	7106.0	7160.3	7307.9	7491.6	7711.5	7897.9	8009.1	8001.4	7944.4	7895.3
12.5°	6484.9	6541.9	6658.3	6945.6	7282.0	7670.1	8016.9	8249.8	8330.0	8288.6	8203.2
15°	6032.1	6081.3	6169.2	6464.2	6901.6	7491.6	8060.9	8513.8	8718.2	8694.9	8591.4
17.5°	6019.1	6039.8	6094.2	6233.9	6570.3	7212.1	8014.3	8772.5	9163.3	9160.7	9031.3
20°	6246.9	6254.6	6285.7	6314.2	6505.6	6999.9	7895.3	8987.3	9662.7	9662.7	9523.0
22.5°	6562.6	6557.4	6588.5	6562.6	6655.7	6981.8	7820.2	9176.2	10219.1	10260.5	10084.5
25°	7036.1	7010.3	7002.5	6943.0	6961.1	7150.0	7903.0	9391.0	10879.0	10964.4	10744.4
27.5°	7667.6	7626.1	7597.7	7460.5	7414.0	7496.8	8156.6	9649.8	11613.9	11761.4	11481.9
30°	8490.5	8415.4	8374.0	8135.9	7967.7	7980.7	8539.6	9994.0	12382.5	12620.5	12266.0
32.5°	9613.6	9497.1	9385.8	8995.1	8687.1	8586.2	9033.9	10470.1	13215.7	13596.1	13140.7
35°	10871.2	10778.0	10659.0	10056.1	9582.5	9349.6	9701.5	11135.2	14191.3	14794.3	14201.7
37.5°	12082.3	12002.1	12059.0	11246.4	10635.7	10296.7	10576.2	12027.9	15394.6	16284.8	15531.8
40°	13334.8	13272.7	13280.4	12504.1	11792.5	11412.0	11637.2	13148.4	16773.9	18057.4	17131.0
42.5°	14695.9	14649.3	14494.1	13805.7	13006.1	12651.6	12858.6	14442.3	18254.1	20075.9	18885.5
45°	16220.1	16191.7	16046.7	15257.5	14341.4	13942.9	14222.4	15870.8	19742.1	21975.3	20647.8
47.5°	17537.3	17560.6	17542.5	16877.4	15927.7	15342.9	15676.7	17361.3	21126.5	23760.9	22337.6
50°	18171.3	18292.9	18471.5	18264.5	17674.4	17079.3	17144.0	18800.1	22446.3	25435.2	23957.5
52.5°	17840.1	18070.4	18556.9	18888.1	19115.8	18991.6	18818.2	20228.6	23688.4	26946.4	25489.5
55°	16605.7	16929.2	17736.6	18536.2	19698.1	20601.2	20828.9	21812.3	24899.5	28276.5	26938.6
57.5°	14356.9	14882.2	15606.8	17224.2	19180.5	21380.1	23173.4	24009.3	26183.0	29697.2	28455.1
60°	10501.2	11205.0	12105.6	14512.2	17369.1	20963.5	25168.6	27383.7	28007.4	31537.1	30429.5
62.5°	6720.4	7155.2	7983.3	10250.1	13534.0	18828.6	25779.3	31601.8	31099.8	34554.4	33390.0
65°	4601.0	4880.5	5638.7	6911.9	8749.2	14015.3	24143.9	34764.1	36011.4	39336.6	38451.6
67.5°	3343.4	3555.6	4202.5	5317.9	5700.8	8293.8	18735.4	34619.1	40785.8	44263.7	42887.1
70°	2437.7	2587.8	3131.2	4202.5	4386.3	4614.0	11349.9	29428.1	40682.3	45573.2	43924.7
72.5°	1806.3	1909.8	2274.6	3260.6	3550.4	3115.7	5618.0	21387.9	34958.1	41220.5	39898.2
75°	1306.8	1384.5	1653.6	2494.6	2841.4	2373.0	2802.6	12498.9	24384.5	28995.9	29228.8
77.5°	998.9	1058.4	1234.4	1827.0	2274.6	1780.4	1739.0	5750.0	11562.1	11619.1	12271.2
80°	802.2	841.0	936.8	1286.1	1744.2	1332.7	1133.4	2321.2	3653.9	3092.4	3245.1
82.5°	590.0	654.7	791.9	903.1	1247.3	918.7	690.9	1172.3	1389.6	1195.5	1205.9
85°	336.4	380.4	478.7	646.9	797.0	561.5	395.9	520.1	646.9	530.5	473.6
87.5°	119.0	155.3	168.2	253.6	346.8	232.9	152.7	150.1	212.2	157.9	132.0
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: P885437
 CATALOG NUMBER: NAV-SB6D-722-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7150.0	7150.0	7150.0	7150.0	7150.0	7150.0	7150.0	7150.0	7150.0	7150.0	7150.0
2.5°	7201.8	7188.8	7137.1	7067.2	6994.7	6924.9	6901.6	6852.4	6818.8	6800.7	6821.4
5°	7346.7	7305.3	7183.6	7028.4	6865.3	6689.4	6565.2	6451.3	6368.5	6290.9	6321.9
7.5°	7553.7	7481.2	7271.6	6999.9	6710.1	6417.7	6200.3	6034.7	5923.4	5850.9	5866.5
10°	7794.4	7683.1	7362.2	6955.9	6508.2	6089.0	5832.8	5690.5	5620.6	5581.8	5592.2
12.5°	8071.2	7913.4	7455.4	6855.0	6200.3	5721.6	5545.6	5504.2	5506.8	5509.4	5514.5
15°	8412.8	8192.9	7530.4	6635.0	5799.2	5439.5	5408.4	5475.7	5545.6	5579.2	5576.6
17.5°	8798.4	8487.9	7543.3	6272.7	5405.8	5258.3	5356.7	5501.6	5607.7	5654.3	5664.6
20°	9212.4	8788.1	7450.2	5760.4	5082.4	5110.8	5286.8	5473.1	5589.6	5649.1	5664.6
22.5°	9686.0	9108.9	7227.6	5222.1	4818.4	4950.4	5157.4	5338.6	5460.2	5519.7	5535.2
25°	10226.9	9468.6	6878.3	4769.3	4590.7	4769.3	4976.3	5126.4	5224.7	5279.0	5294.6
27.5°	10827.2	9843.9	6412.5	4409.6	4391.4	4582.9	4753.7	4870.2	4921.9	4963.3	4978.9
30°	11430.2	10185.4	5848.4	4137.8	4218.1	4399.2	4520.8	4572.6	4588.1	4595.9	4614.0
32.5°	12082.3	10480.5	5255.8	3912.7	4052.4	4220.6	4293.1	4316.4	4243.9	4194.8	4210.3
35°	12871.6	10796.2	4676.1	3734.1	3889.4	4034.3	4057.6	4036.9	3951.5	3850.6	3855.8
37.5°	13847.1	11189.5	4212.9	3607.3	3736.7	3832.5	3804.0	3798.8	3806.6	3687.6	3695.3
40°	15042.7	11701.9	3873.9	3509.0	3612.5	3633.2	3553.0	3597.0	3635.8	3454.7	3459.8
42.5°	16370.2	12320.4	3659.1	3441.7	3509.0	3459.8	3335.6	3384.8	3379.6	3141.5	3139.0
45°	17723.6	12993.2	3584.1	3392.6	3413.3	3314.9	3177.8	3190.7	3082.0	2867.2	2875.0
47.5°	19069.3	13715.2	3630.6	3351.2	3294.2	3183.0	3076.9	3019.9	2859.5	2699.0	2699.0
50°	20389.0	14473.4	3801.4	3268.3	3131.2	3066.5	2988.9	2887.9	2717.2	2580.0	2569.7
52.5°	21613.0	15236.8	3992.9	3131.2	2926.8	2965.6	2916.4	2800.0	2631.8	2492.0	2494.6
55°	22772.3	16000.2	4068.0	2942.3	2735.3	2877.6	2849.1	2634.3	2432.5	2318.6	2308.3
57.5°	24035.2	16918.8	3985.2	2701.6	2580.0	2776.7	2668.0	2429.9	2313.5	2228.1	2220.3
60°	25784.5	18360.2	3806.6	2404.0	2432.5	2626.6	2440.3	2341.9	2215.1	2119.4	2114.2
62.5°	28690.6	21048.9	3519.4	2109.0	2259.1	2404.0	2331.6	2233.2	2103.9	2010.7	2010.7
65°	32986.3	24785.6	2978.5	1878.7	2065.0	2186.7	2215.1	2116.8	1982.2	1883.9	1889.1
67.5°	36609.1	27130.1	2253.9	1687.2	1865.8	2010.7	2090.9	1995.2	1852.8	1757.1	1759.7
70°	36409.9	25427.4	1720.9	1498.3	1689.8	1837.3	1940.8	1865.8	1713.1	1622.5	1630.3
72.5°	32339.3	21271.4	1392.2	1306.8	1511.3	1656.2	1780.4	1723.5	1568.2	1480.2	1480.2
75°	23758.3	15099.6	1112.7	1112.7	1288.7	1467.3	1604.4	1568.2	1425.9	1363.8	1345.6
77.5°	10014.7	6334.9	872.1	923.8	1071.3	1260.2	1431.0	1444.0	1319.8	1397.4	1268.0
80°	2662.8	1746.7	665.1	727.2	841.0	1040.3	1244.7	1239.5	1105.0	1032.5	960.1
82.5°	1014.4	688.3	473.6	512.4	608.1	797.0	985.9	1017.0	882.4	763.4	763.4
85°	390.8	295.0	292.4	307.9	354.5	527.9	745.3	771.2	665.1	564.1	582.2
87.5°	100.9	88.0	108.7	103.5	163.0	282.1	427.0	442.5	406.3	235.5	336.4
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)