

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: P971005

Luminaire Tested: **NAV-SB6C-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-827-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40233.3 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



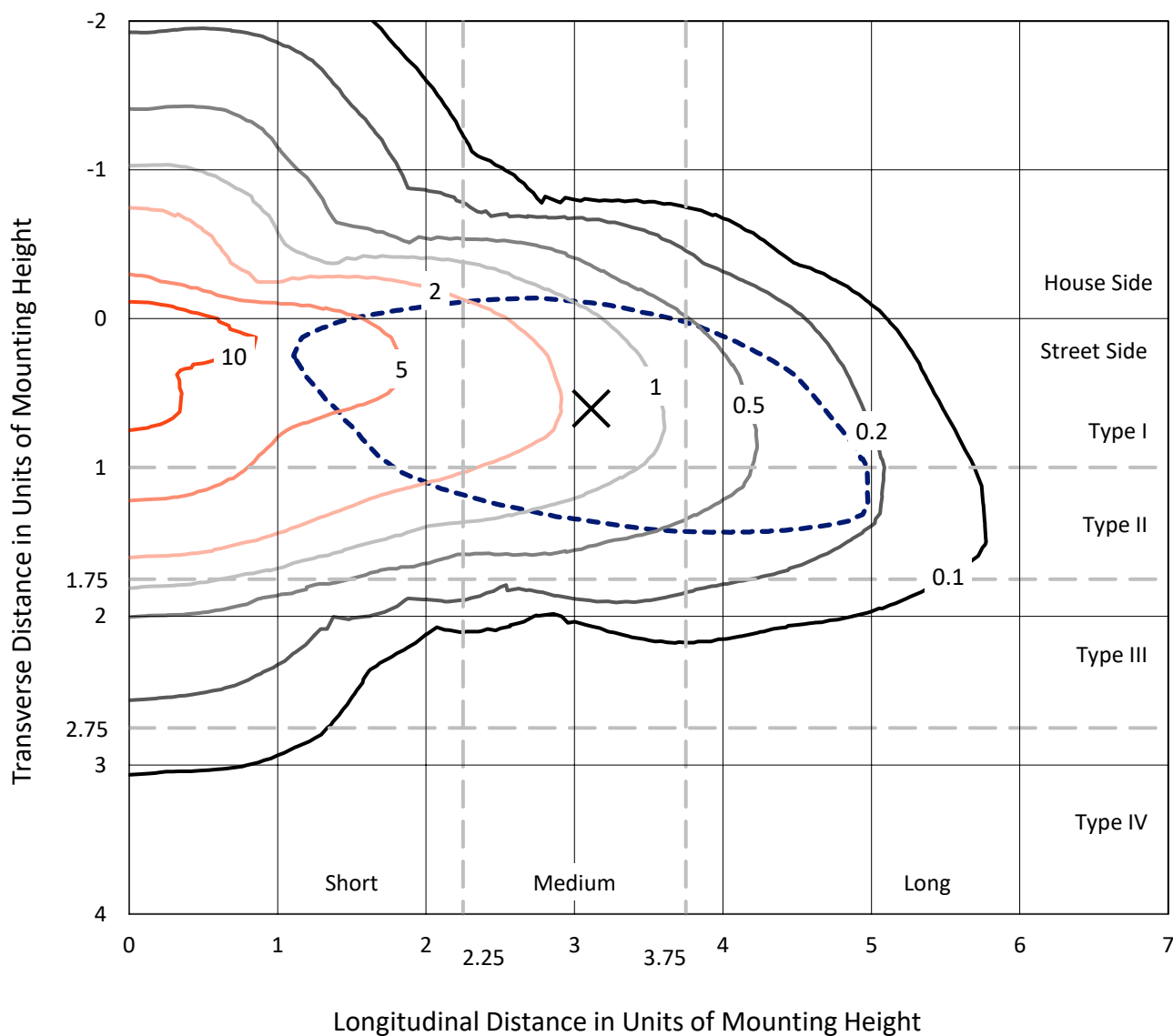
REPORT NUMBER: P971005

CATALOG NUMBER: NAV-SB6C-827-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

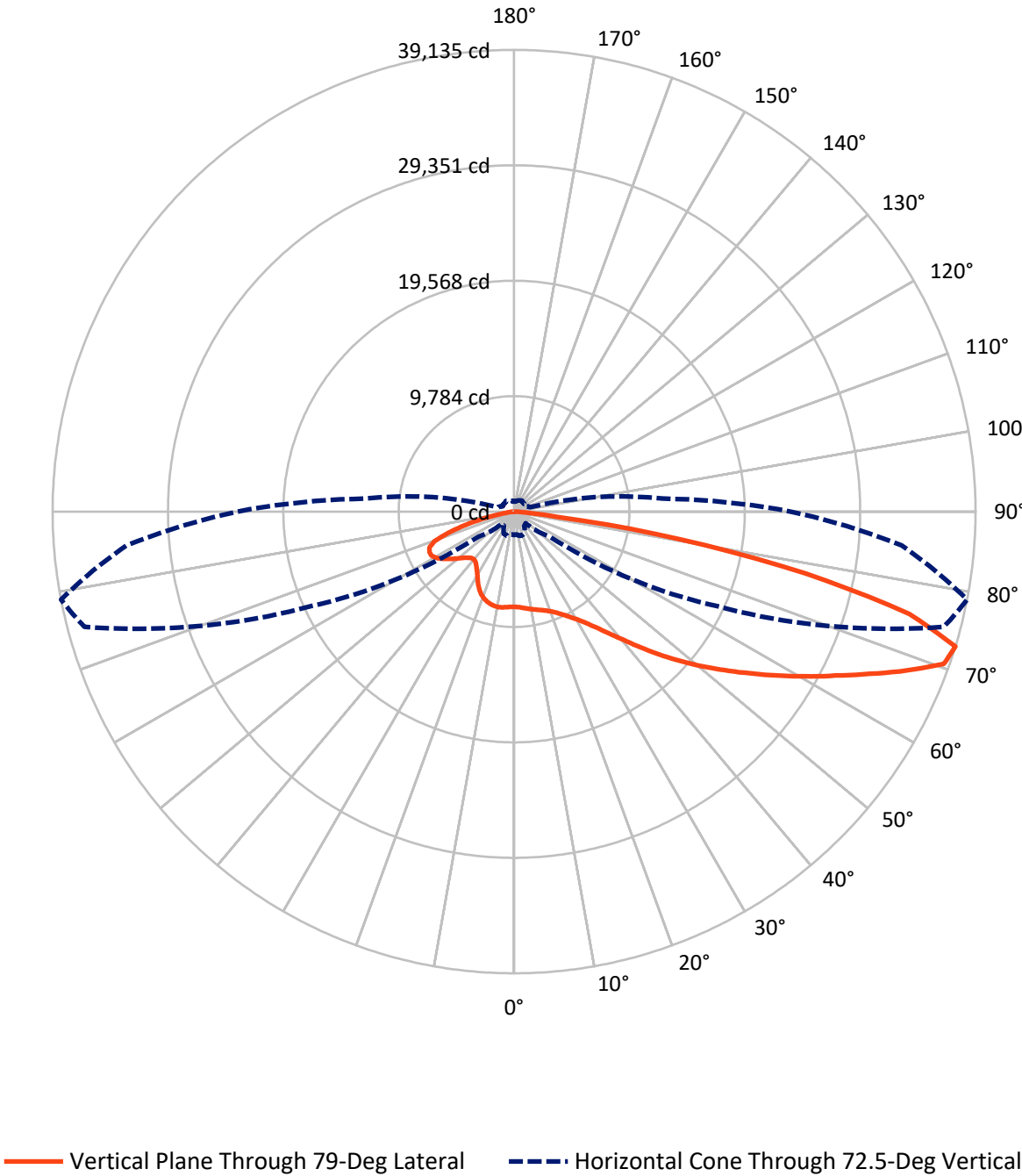
--- 1/2 Max cd



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

REPORT NUMBER: P971005
CATALOG NUMBER: NAV-SB6C-827-U-SL2

Luminous Intensity Polar Plot



REPORT NUMBER: P971005

CATALOG NUMBER: NAV-SB6C-827-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8853.5	0.0	8853.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	31379.8	0.0	31379.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	40233.3	0.0	40233.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.1	1.8
10°-20°	1916.7	4.8
20°-30°	3092.8	7.7
30°-40°	4641.8	11.5
40°-50°	6584.7	16.4
50°-60°	8315.6	20.7
60°-70°	8445.6	21.0
70°-80°	5756.1	14.3
80°-90°	746.8	1.9
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°	40233.3	100.0
0°-180°	40233.3	100.0

Coefficient of Utilization



REPORT NUMBER: P971005

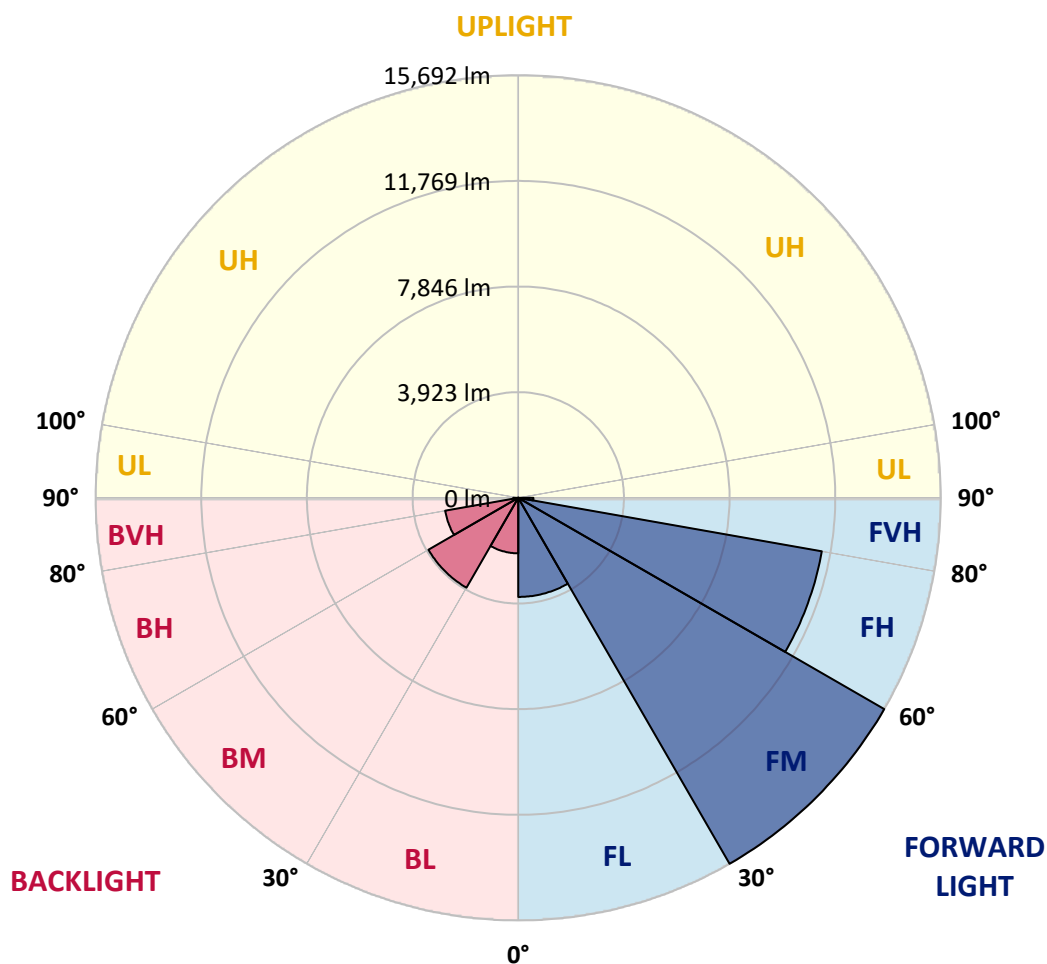
CATALOG NUMBER: NAV-SB6C-827-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3680.4	9.1			
FM	(30°-60°)	15691.8	39.0			
FH	(60°-80°)	11445.0	28.4			G4/12000
FVH	(80°-90°)	562.6	1.4			G4/750
BL	(0°-30°)	2062.2	5.1	B3/2500		
BM	(30°-60°)	3850.4	9.6	B3/5000		
BH	(60°-80°)	2756.7	6.9	B4/5000		G4/5000
BVH	(80°-90°)	184.2	0.5			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: P971005

CATALOG NUMBER: NAV-SB6C-827-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5
2.5°	8080.7	8042.4	8065.8	8057.3	8068.0	8080.7	8085.0	8091.4	8112.7	8110.5	8108.4
5°	8063.7	8025.3	8057.3	8046.7	8074.3	8104.2	8129.7	8153.1	8187.1	8202.0	8180.7
7.5°	8027.5	8002.0	8033.8	8065.8	8116.9	8161.6	8197.7	8250.9	8299.9	8308.4	8323.3
10°	7816.9	7797.7	7872.1	7955.1	8095.7	8216.9	8295.6	8357.3	8410.5	8419.0	8440.4
12.5°	7597.6	7574.2	7657.2	7770.0	7997.7	8216.9	8382.9	8463.7	8510.6	8538.2	8570.2
15°	7561.4	7542.3	7589.1	7687.0	7876.4	8159.4	8442.5	8591.4	8631.9	8663.8	8676.6
17.5°	7736.0	7699.8	7719.0	7753.0	7863.6	8106.2	8489.4	8736.2	8797.9	8831.9	8831.9
20°	8140.3	8089.2	8059.5	7991.3	7972.1	8114.7	8485.1	8910.7	8991.6	9034.1	9044.8
22.5°	8678.8	8644.6	8580.8	8408.5	8221.2	8219.1	8565.9	9134.2	9285.3	9325.7	9300.1
25°	9330.0	9278.9	9198.0	8963.9	8604.3	8425.5	8702.1	9419.3	9672.6	9683.3	9608.8
27.5°	10079.0	10002.5	9891.8	9583.2	9098.0	8749.0	8910.7	9747.0	10117.4	10113.2	9959.9
30°	10868.6	10792.0	10675.0	10300.4	9689.6	9185.2	9200.1	10100.3	10645.1	10621.8	10360.0
32.5°	11445.4	11388.0	11364.5	11075.0	10370.6	9700.3	9532.1	10491.9	11296.4	11275.1	10909.1
35°	11888.1	11813.5	11841.2	11694.3	11113.4	10277.0	9938.6	10958.0	12088.0	12086.0	11630.5
37.5°	12326.4	12260.4	12283.9	12186.0	11800.7	11009.1	10434.5	11528.4	13069.2	13116.0	12503.1
40°	12726.5	12656.3	12750.0	12658.4	12335.0	11788.0	10998.5	12173.2	14205.6	14295.0	13558.7
42.5°	12967.0	12911.7	13067.0	13069.2	12798.9	12445.7	11617.8	12884.0	15520.9	15720.8	14856.9
45°	13050.0	13030.8	13264.9	13313.9	13209.6	12826.5	12175.4	13658.6	16938.2	17295.7	16335.9
47.5°	12960.6	12924.4	13247.9	13428.8	13511.9	13005.3	12637.1	14497.2	18385.3	18908.9	17949.1
50°	12509.4	12439.2	12920.2	13301.1	13596.9	13122.4	13103.2	15465.5	20030.4	20602.9	19570.7
52.5°	11698.6	11645.4	12192.4	12854.2	13409.7	13179.9	13626.8	16523.2	21592.5	22333.1	21232.9
55°	10662.2	10591.9	11194.2	12058.3	12943.6	13160.7	14150.3	17706.5	23435.5	24186.8	22950.4
57.5°	9019.3	8878.8	9640.6	10662.2	12183.9	13137.2	14695.1	18883.4	25308.4	26208.5	24782.7
60°	6622.9	6414.3	7348.6	8559.6	10698.3	12909.6	15369.8	20202.9	27555.7	28366.6	26783.1
62.5°	3856.3	3735.0	4345.8	5475.9	8063.7	11568.8	15748.5	21737.3	29764.8	30616.0	28749.6
65°	2994.3	2960.3	3013.5	3100.7	4488.4	8661.7	14580.2	23233.4	32574.0	33169.8	30799.1
67.5°	2739.0	2713.5	2736.9	2573.0	2277.1	4824.6	11534.7	23612.2	35583.2	35945.0	32593.2
70°	2434.7	2404.9	2481.4	2341.0	1791.9	2194.1	7452.9	22237.4	37977.4	38656.3	33957.3
72.5°	1983.5	1949.4	2128.2	2064.4	1508.9	1408.9	3743.5	18970.6	37726.3	39135.1	32980.4
75°	1523.8	1504.6	1717.5	1770.7	1230.1	1108.7	1796.2	14101.3	33199.6	34619.2	28424.0
77.5°	1183.3	1168.4	1276.9	1470.6	991.7	859.8	1104.5	8944.8	25018.9	25267.9	19587.8
80°	887.4	844.9	944.9	1138.6	772.5	627.8	749.1	5216.2	15814.5	14335.4	8525.5
82.5°	555.4	534.1	617.2	759.7	544.8	432.0	487.4	2881.6	6337.7	3732.8	1645.1
85°	317.1	308.6	336.3	434.2	295.8	249.0	278.8	1272.6	1157.7	795.9	495.9
87.5°	127.7	123.4	153.2	193.6	108.5	91.5	97.9	306.5	255.4	236.3	163.9
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: P971005

CATALOG NUMBER: NAV-SB6C-827-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5
2.5°	8099.9	8099.9	8070.0	8023.3	7970.1	7936.0	7880.6	7865.7	7808.3	7791.2	7818.9
5°	8197.7	8180.7	8089.2	7957.3	7776.4	7610.4	7427.4	7312.5	7150.7	7093.2	7135.8
7.5°	8321.2	8274.4	8116.9	7827.4	7448.7	7076.2	6688.8	6395.2	6114.2	6014.3	6027.0
10°	8434.0	8368.0	8099.9	7593.4	6937.9	6293.0	5675.8	5243.8	4916.1	4782.0	4811.9
12.5°	8546.8	8425.5	7987.1	7203.9	6212.1	5337.5	4679.8	4343.6	4141.4	3979.7	4032.9
15°	8653.2	8482.9	7812.6	6682.5	5416.2	4528.8	4043.5	3775.4	3613.6	3507.2	3526.4
17.5°	8776.7	8531.9	7550.8	6020.6	4658.6	3969.1	3573.3	3411.5	3379.5	3366.8	3375.3
20°	8949.0	8576.6	7206.1	5280.0	4101.0	3522.1	3317.8	3303.0	3300.8	3294.5	3315.7
22.5°	9134.2	8629.8	6750.5	4607.5	3626.4	3243.3	3207.1	3177.4	3158.2	3156.1	3179.5
25°	9353.3	8646.8	6180.2	4056.3	3222.1	3111.4	3068.8	3024.2	3011.3	3011.3	3024.2
27.5°	9566.2	8589.3	5516.2	3577.5	2994.3	2990.1	2934.8	2919.9	2917.8	2924.1	2941.1
30°	9779.0	8480.8	4856.6	3134.9	2862.4	2862.4	2843.2	2853.9	2862.4	2883.7	2898.6
32.5°	10066.3	8365.8	4305.3	2807.1	2747.5	2726.2	2745.4	2766.7	2775.2	2802.9	2826.2
35°	10487.7	8285.0	3866.9	2628.3	2628.3	2600.6	2611.3	2607.0	2587.9	2575.1	2604.9
37.5°	11045.3	8280.8	3505.1	2545.3	2528.3	2524.1	2526.1	2498.4	2424.0	2334.6	2336.8
40°	11715.6	8395.7	3226.3	2487.9	2475.1	2500.6	2487.9	2413.4	2209.1	2053.7	2049.5
42.5°	12615.9	8723.5	3047.5	2417.6	2455.9	2487.9	2436.7	2179.3	2040.9	1936.6	1932.4
45°	13675.7	9255.4	2956.0	2343.1	2419.7	2458.1	2211.2	2098.4	1987.7	1862.1	1853.6
47.5°	14876.0	9925.8	2934.8	2272.9	2338.8	2362.3	2115.4	2064.4	1938.8	1802.6	1791.9
50°	16182.7	10719.7	2992.2	2189.9	2221.8	2140.9	2083.5	2036.7	1906.8	1772.7	1757.9
52.5°	17534.1	11594.3	3107.2	2077.1	2104.7	2015.4	2070.7	2030.3	1887.7	1706.8	1694.0
55°	18862.0	12475.4	3217.8	1945.1	1985.6	1902.6	2034.5	2004.8	1800.4	1596.1	1585.5
57.5°	20211.4	13352.3	3326.3	1828.1	1870.6	1794.1	1977.1	1936.6	1702.5	1493.9	1489.7
60°	21613.9	14203.5	3377.4	1715.3	1745.1	1694.0	1889.8	1819.6	1591.9	1389.7	1383.3
62.5°	22926.9	14912.2	3294.5	1602.5	1621.7	1600.4	1774.9	1681.3	1481.2	1272.6	1270.5
65°	24244.2	15333.6	3039.0	1491.9	1496.1	1485.4	1613.1	1532.3	1351.4	1170.6	1157.7
67.5°	25438.1	15569.7	2632.6	1372.7	1362.0	1357.8	1462.1	1370.5	1225.8	1068.4	1055.5
70°	25691.4	14969.6	2011.2	1232.3	1232.3	1221.6	1296.1	1202.4	1087.5	959.8	955.5
72.5°	23465.3	12592.4	1428.0	1072.6	1089.7	1068.4	1130.1	1051.3	947.0	861.9	836.4
75°	18921.7	9234.2	1038.5	908.8	938.5	902.3	959.8	904.5	815.1	812.9	732.1
77.5°	13001.1	5709.9	753.4	749.1	770.4	723.5	789.6	759.7	678.9	642.7	602.3
80°	5548.2	2277.1	549.1	578.8	578.8	536.3	612.9	621.5	551.2	534.1	534.1
82.5°	1104.5	647.0	385.2	398.0	374.5	361.8	434.2	480.9	664.0	738.5	740.6
85°	332.0	238.3	232.0	217.1	191.6	193.6	255.4	483.1	595.9	340.5	293.7
87.5°	91.5	59.6	61.7	49.0	40.4	53.2	87.2	366.0	200.1	85.2	72.4
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)