

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: P885496

Luminaire Tested: **NAV-SB6D-760-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-760-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48626 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

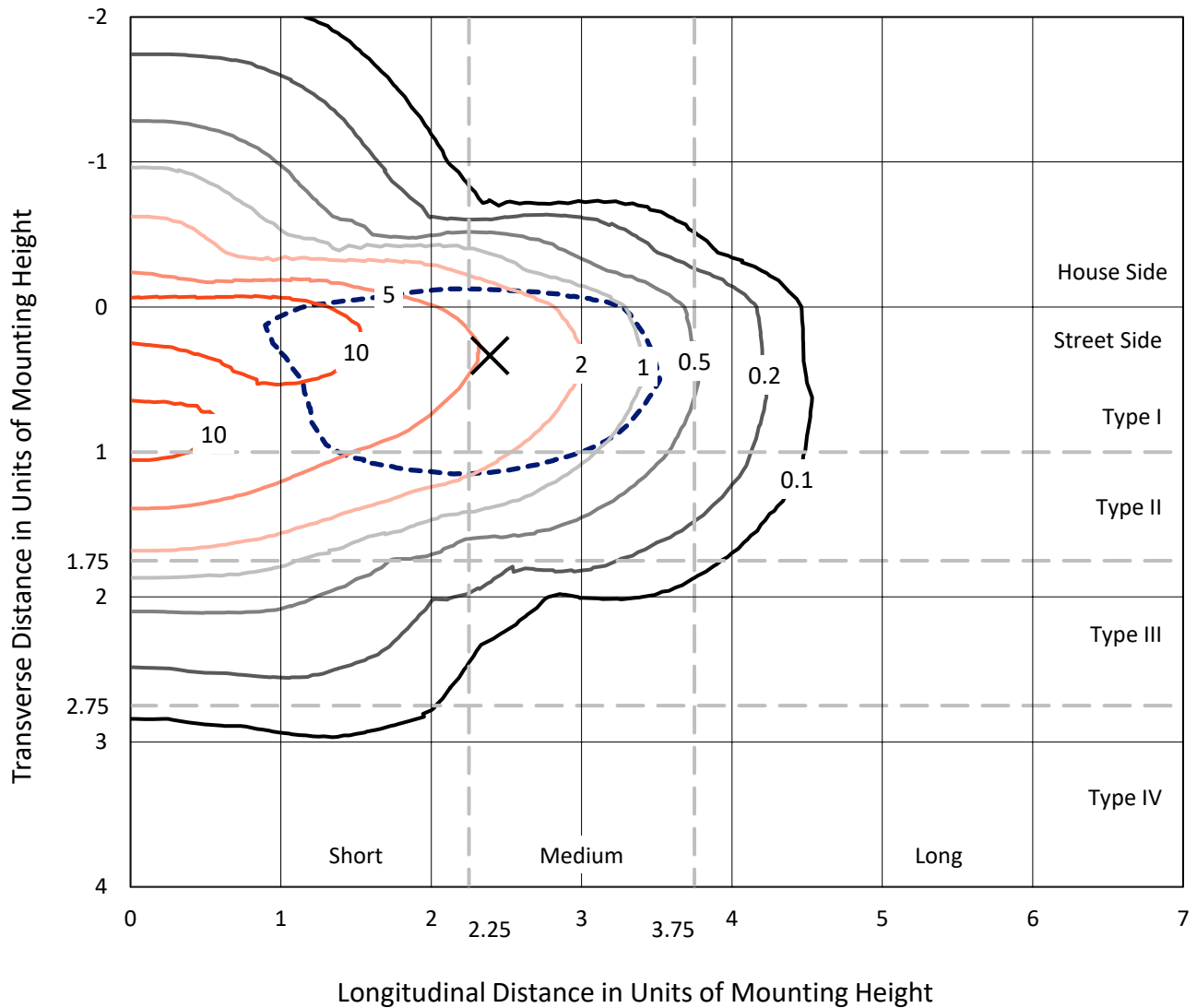
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

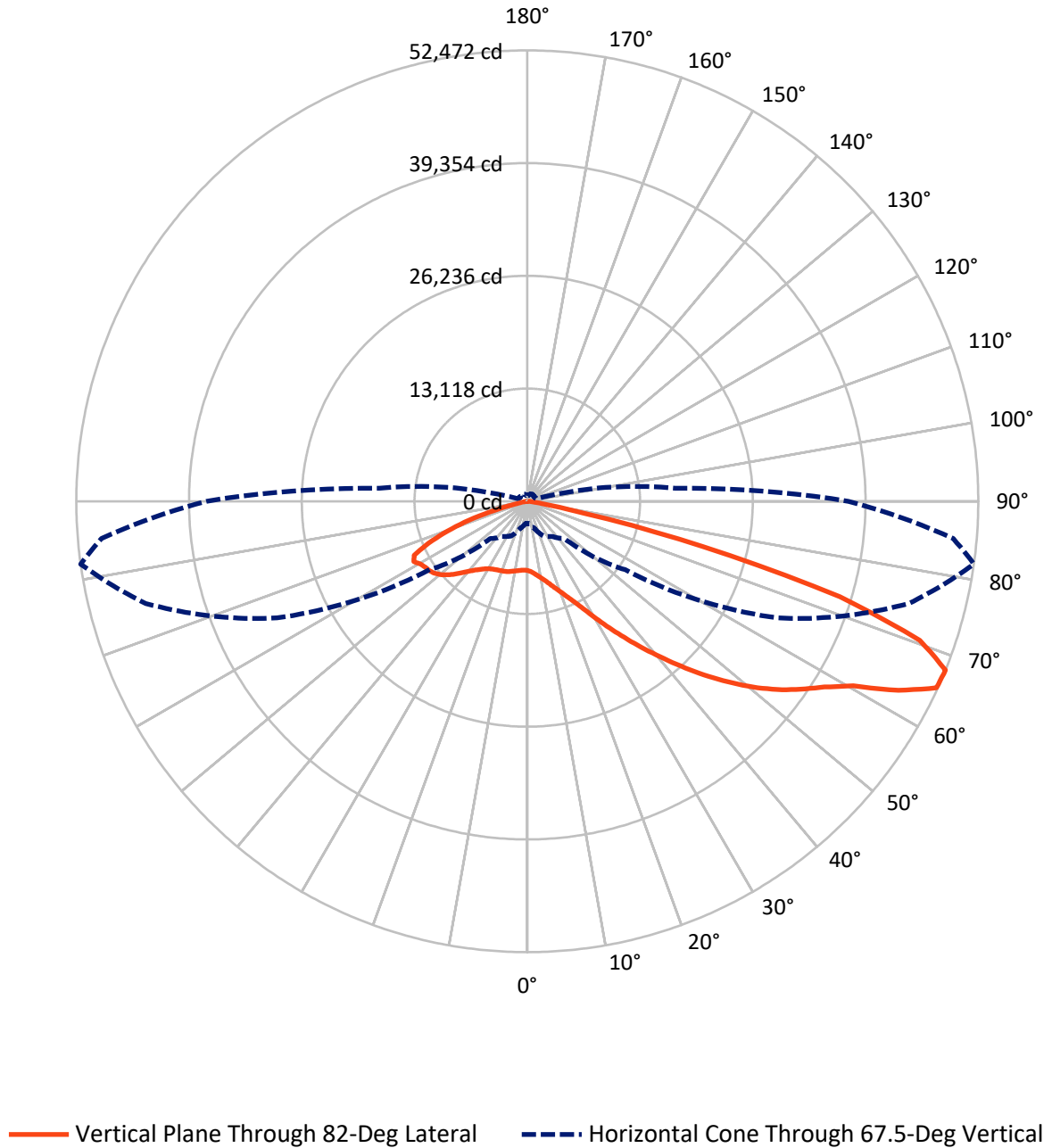
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8808.2	0.0	8808.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	39817.8	0.0	39817.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	48626.0	0.0	48626.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.7	1.5
10°-20°	1865.0	3.8
20°-30°	2987.2	6.1
30°-40°	5282.2	10.9
40°-50°	9255.0	19.0
50°-60°	12343.5	25.4
60°-70°	11491.2	23.6
70°-80°	4410.3	9.1
80°-90°	273.9	0.6
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°	48626.0	100.0
0°-180°	48626.0	100.0



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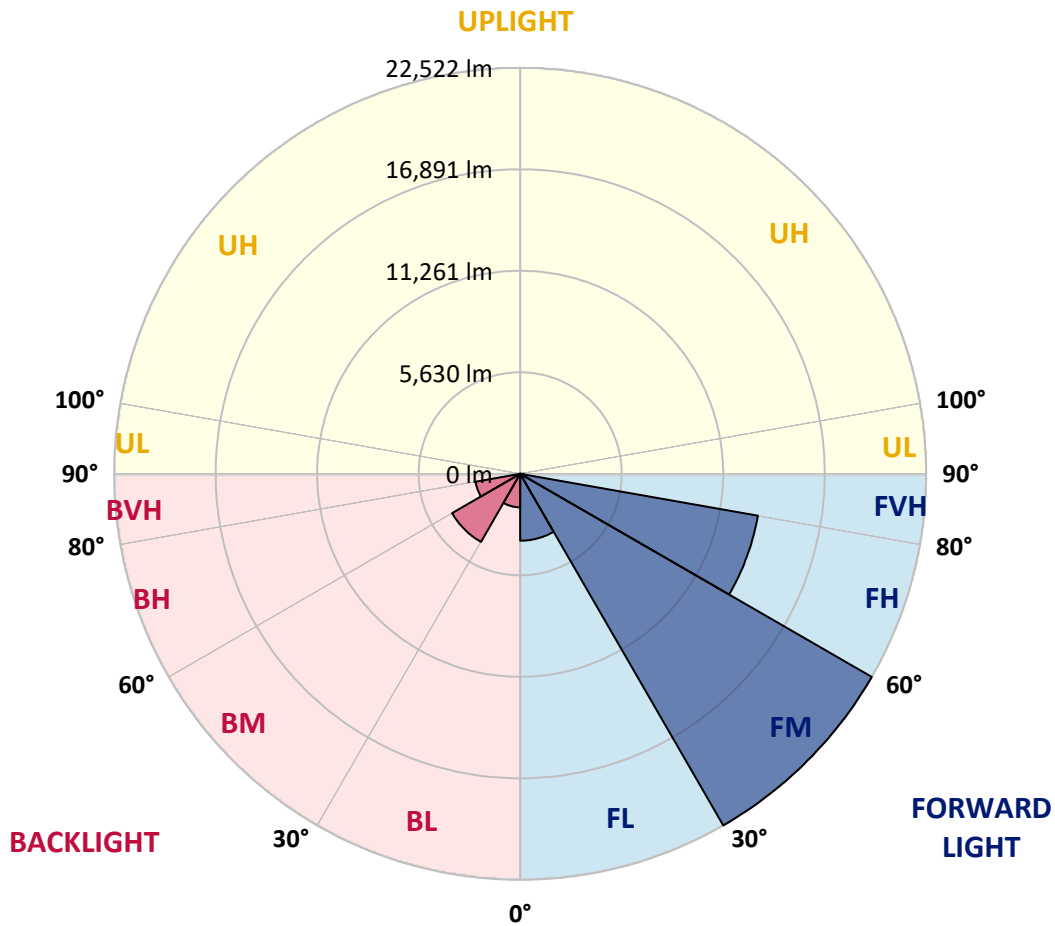
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3709.6	7.6			
FM (30°-60°)	22521.6	46.3			
FH (60°-80°)	13387.5	27.5			G5
FVH (80°-90°)	199.2	0.4			G2/225
BL (0°-30°)	1860.3	3.8	B3/2500		
BM (30°-60°)	4359.1	9.0	B3/5000		
BH (60°-80°)	2514.0	5.2	B4/5000		G4/5000
BVH (80°-90°)	74.8	0.2			G1/100
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7
2.5°	8514.3	8563.3	8535.3	8521.3	8496.8	8461.8	8433.8	8346.3	8255.2	8195.7	8174.7
5°	8685.9	8734.9	8731.4	8745.4	8762.9	8773.4	8766.4	8668.3	8538.8	8437.3	8377.8
7.5°	8538.8	8594.8	8640.3	8710.4	8832.9	8962.4	9025.4	9004.4	8871.4	8731.4	8657.8
10°	8122.2	8181.7	8290.2	8454.8	8713.9	8993.9	9228.5	9337.0	9253.0	9099.0	8997.4
12.5°	7359.0	7418.5	7632.1	7989.2	8423.3	8909.9	9358.0	9648.6	9669.6	9515.6	9396.5
15°	6501.3	6560.8	6788.3	7236.5	7898.1	8678.9	9428.1	9977.7	10163.3	10030.2	9886.7
17.5°	5969.1	6021.6	6193.2	6553.8	7243.5	8216.7	9403.5	10327.8	10751.4	10646.4	10474.8
20°	5808.1	5853.6	5934.1	6186.2	6760.3	7737.1	9242.5	10656.9	11385.1	11325.6	11133.0
22.5°	5979.6	6021.6	6046.1	6158.2	6518.8	7422.0	9039.4	10993.0	12120.3	12127.3	11892.7
25°	6375.2	6417.2	6389.2	6459.3	6616.8	7324.0	8962.4	11388.6	13044.5	13121.6	12855.5
27.5°	7026.4	7029.9	6963.4	6959.9	6984.4	7471.0	9043.0	11812.2	14210.4	14353.9	14024.8
30°	8332.3	8279.7	8024.2	7747.6	7621.6	7912.1	9267.0	12312.8	15586.2	15841.8	15428.7
32.5°	10345.3	10268.3	9799.2	9137.5	8472.3	8622.8	9669.6	12883.5	17084.6	17546.8	17042.6
35°	12529.9	12508.9	12018.8	11035.0	9872.7	9634.6	10324.3	13632.7	18719.6	19454.8	18856.1
37.5°	14560.4	14549.9	14269.9	13111.1	11696.7	11045.5	11374.6	14613.0	20470.0	21534.3	20827.1
40°	16415.9	16447.5	16167.4	15131.1	13706.2	12855.5	12803.0	15824.3	22416.6	23799.4	22959.2
42.5°	18019.4	18054.4	17770.8	17004.1	15691.3	14858.0	14556.9	17308.7	24317.6	26232.6	25238.3
45°	19108.2	19325.2	19283.2	18670.6	17728.8	16864.1	16664.5	19171.2	26484.7	28812.8	27647.0
47.5°	19416.3	19615.8	19930.9	20014.9	19440.8	18590.0	18828.1	21415.3	28676.3	31396.5	30069.6
50°	18656.6	18842.1	19496.8	20368.5	20767.6	20505.1	20932.2	23820.5	30920.4	33973.2	32446.8
52.5°	17158.1	17347.2	18173.4	19552.8	21180.7	22007.0	23043.2	26190.6	33094.5	36413.4	34697.9
55°	14991.1	15190.6	16251.4	17812.8	20393.0	22626.6	24804.2	28557.2	35086.5	38608.5	36728.5
57.5°	12043.3	12190.3	13293.1	15477.7	18411.5	22010.5	26103.1	31140.9	36963.0	40765.0	38741.5
60°	7849.1	7978.7	9260.0	11696.7	15127.6	19951.9	26362.1	34022.2	39455.7	43569.3	41454.7
62.5°	5219.9	5307.4	6067.1	7856.1	10653.4	15999.3	24846.2	36322.3	43110.7	48449.6	46107.5
65°	3581.5	3669.0	4428.7	5675.0	6882.9	10583.4	20487.6	36017.8	46422.6	52325.2	49555.9
67.5°	2555.7	2629.2	3273.4	4449.7	4981.8	6147.7	13888.3	32124.7	45946.4	52472.2	49741.5
70°	1831.0	1873.0	2405.2	3465.9	3959.6	3693.5	7723.1	24569.7	40229.4	48453.1	45953.5
72.5°	1281.3	1295.4	1670.0	2639.7	3189.4	2695.7	3676.0	16380.9	30426.7	38030.8	35625.7
75°	868.2	885.7	1123.8	1936.0	2559.2	2058.6	1946.5	8783.9	17861.8	21051.2	18870.1
77.5°	532.1	539.1	724.7	1323.4	1915.0	1568.4	1253.3	3721.5	6910.9	6784.8	5783.6
80°	301.1	301.1	462.1	822.7	1305.9	1011.8	878.7	1582.4	2188.1	1922.0	1694.5
82.5°	168.0	171.5	336.1	511.1	864.7	598.7	483.1	731.7	945.3	836.7	728.2
85°	70.0	77.0	206.6	241.6	413.1	297.6	196.1	308.1	350.1	311.6	227.6
87.5°	7.0	10.5	63.0	45.5	49.0	59.5	28.0	59.5	49.0	49.0	35.0
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°	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7
2.5°	8108.2	8055.7	7922.6	7768.6	7565.5	7467.5	7334.5	7243.5	7166.4	7173.4	7103.4
5°	8265.7	8132.7	7835.1	7464.0	7001.9	6672.8	6322.7	6081.1	5885.1	5843.1	5748.6
7.5°	8482.8	8272.7	7751.1	7082.4	6301.7	5710.0	5181.4	4841.8	4600.2	4523.2	4446.2
10°	8762.9	8458.3	7642.6	6602.8	5479.0	4726.3	4159.1	3893.1	3728.5	3672.5	3630.5
12.5°	9088.5	8671.8	7499.0	6018.1	4631.8	3907.1	3546.5	3413.4	3360.9	3343.4	3332.9
15°	9498.1	8937.9	7282.0	5324.9	3914.1	3406.4	3252.4	3234.9	3241.9	3234.9	3231.4
17.5°	9984.7	9228.5	6928.4	4610.7	3430.9	3150.9	3094.8	3108.8	3126.3	3122.8	3115.8
20°	10516.8	9515.6	6476.8	3977.1	3101.8	2968.8	2937.3	2951.3	2965.3	2958.3	2954.8
22.5°	11122.5	9823.7	5976.1	3483.4	2881.3	2800.8	2765.7	2769.3	2769.3	2755.2	2748.2
25°	11847.2	10163.3	5451.0	3133.3	2713.2	2650.2	2608.2	2594.2	2573.2	2531.2	2524.2
27.5°	12711.9	10523.9	4946.8	2888.3	2580.2	2520.7	2471.7	2436.7	2384.1	2314.1	2307.1
30°	13685.2	10961.5	4519.7	2734.2	2475.2	2415.7	2359.6	2307.1	2230.1	2142.6	2135.6
32.5°	14830.0	11430.6	4208.1	2632.7	2380.6	2317.6	2251.1	2188.1	2104.1	2016.5	2020.0
35°	16195.4	11997.8	4026.1	2562.7	2307.1	2223.1	2149.6	2079.6	2016.5	1939.5	1932.5
37.5°	17676.3	12599.9	3970.1	2527.7	2258.1	2128.6	2044.6	1995.5	1988.5	1943.0	1939.5
40°	19297.2	13314.1	4012.1	2506.7	2205.6	2037.6	1946.5	1936.0	1953.5	1873.0	1876.5
42.5°	21012.7	14161.3	4082.1	2482.2	2132.1	1946.5	1859.0	1859.0	1845.0	1733.0	1733.0
45°	22868.2	15138.1	4152.1	2422.7	2044.6	1855.5	1789.0	1764.5	1705.0	1596.4	1592.9
47.5°	24737.7	16132.4	4204.6	2314.1	1939.5	1778.5	1719.0	1663.0	1575.4	1477.4	1473.9
50°	26512.7	17025.1	4148.6	2153.1	1820.5	1705.0	1641.9	1564.9	1470.4	1403.9	1393.4
52.5°	28098.6	17798.8	3910.6	1964.0	1694.5	1627.9	1571.9	1491.4	1414.4	1344.4	1337.4
55°	29478.0	18425.5	3490.4	1785.5	1582.4	1561.4	1505.4	1403.9	1298.9	1239.3	1232.3
57.5°	30801.3	18901.6	2965.3	1638.4	1480.9	1487.9	1403.9	1312.9	1214.8	1151.8	1144.8
60°	32562.3	19538.8	2433.2	1501.9	1372.4	1393.4	1302.4	1235.8	1113.3	1032.8	1022.3
62.5°	35377.1	20529.6	1932.5	1333.9	1246.3	1253.3	1214.8	1134.3	987.3	892.7	885.7
65°	37610.7	20165.5	1522.9	1151.8	1102.8	1113.3	1113.3	1025.8	868.2	759.7	749.2
67.5°	37358.6	17266.7	1214.8	973.3	966.3	973.3	997.8	924.3	770.2	682.7	668.7
70°	34414.3	13734.2	973.3	808.7	840.2	822.7	892.7	843.7	693.2	605.7	595.2
72.5°	28081.1	9893.7	742.2	668.7	644.2	672.2	805.2	759.7	577.7	479.6	469.1
75°	16408.9	5279.4	553.1	528.6	465.6	560.2	714.2	647.7	441.1	353.6	343.1
77.5°	5342.4	1841.5	406.1	388.6	346.6	451.6	609.2	546.1	360.6	280.1	269.6
80°	1431.9	556.7	276.6	255.6	224.1	336.1	483.1	434.1	259.1	182.0	178.5
82.5°	574.2	234.6	161.0	143.5	122.5	231.1	381.6	350.1	192.6	115.5	115.5
85°	185.6	77.0	59.5	45.5	56.0	143.5	227.6	238.1	136.5	59.5	45.5
87.5°	24.5	10.5	10.5	14.0	10.5	24.5	70.0	66.5	38.5	7.0	0.0
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)