

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: P885469

Luminaire Tested: **NAV-SB6D-735-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-735-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61807 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

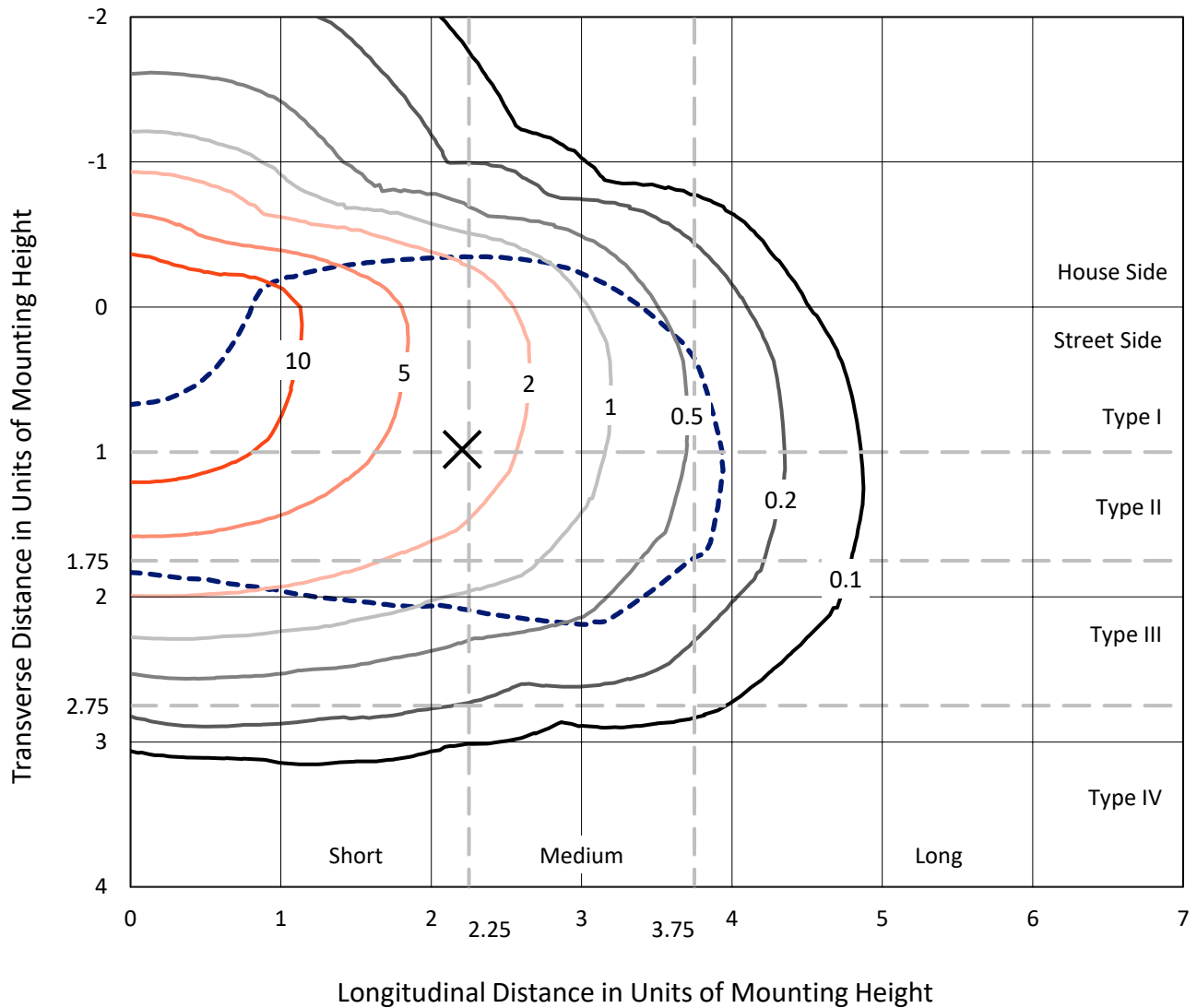
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P885469
 CATALOG NUMBER: NAV-SB6D-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

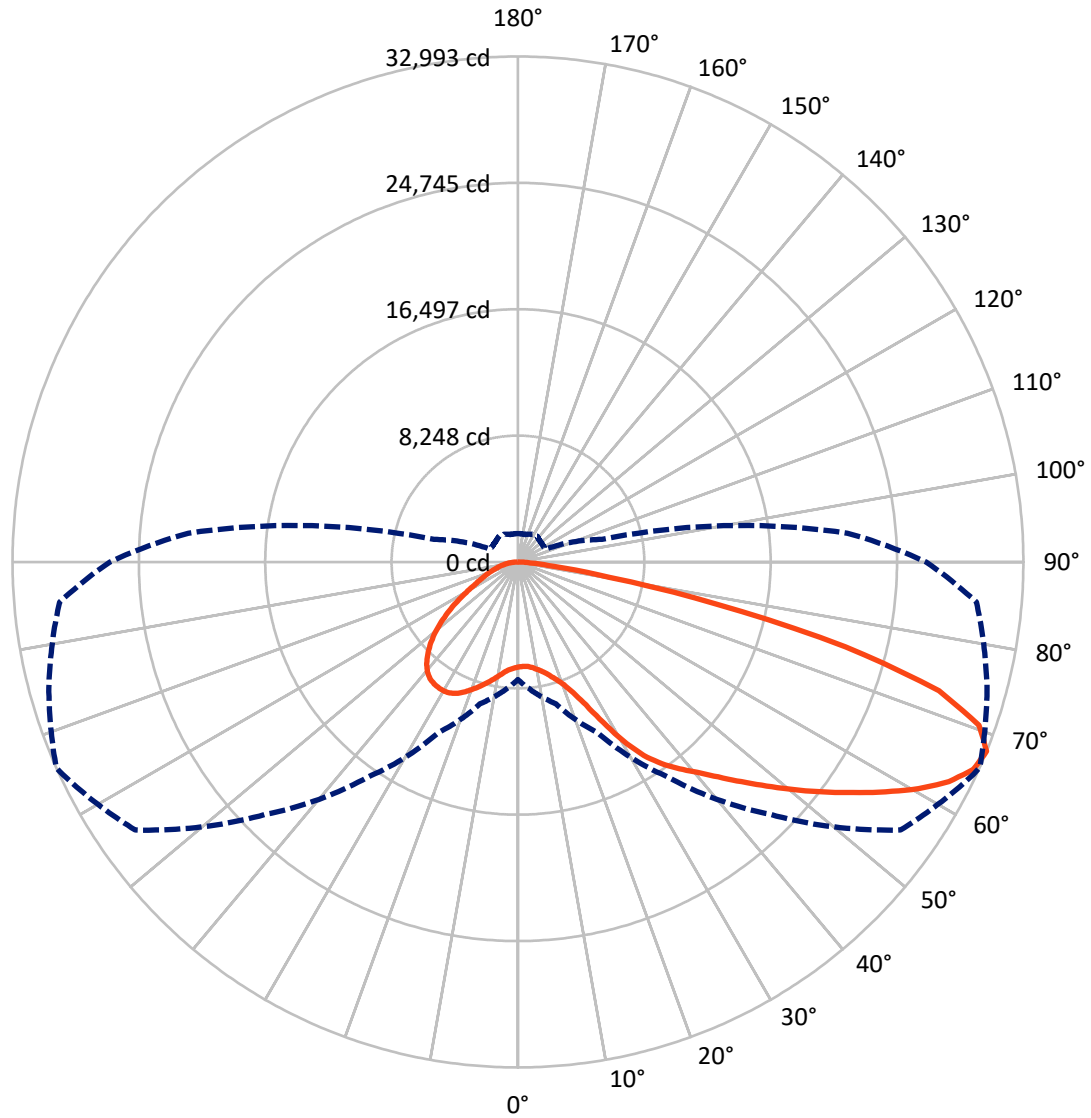
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type III - Short - N/A

REPORT NUMBER: P885469
CATALOG NUMBER: NAV-SB6D-735-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P885469
 CATALOG NUMBER: NAV-SB6D-735-U-T3

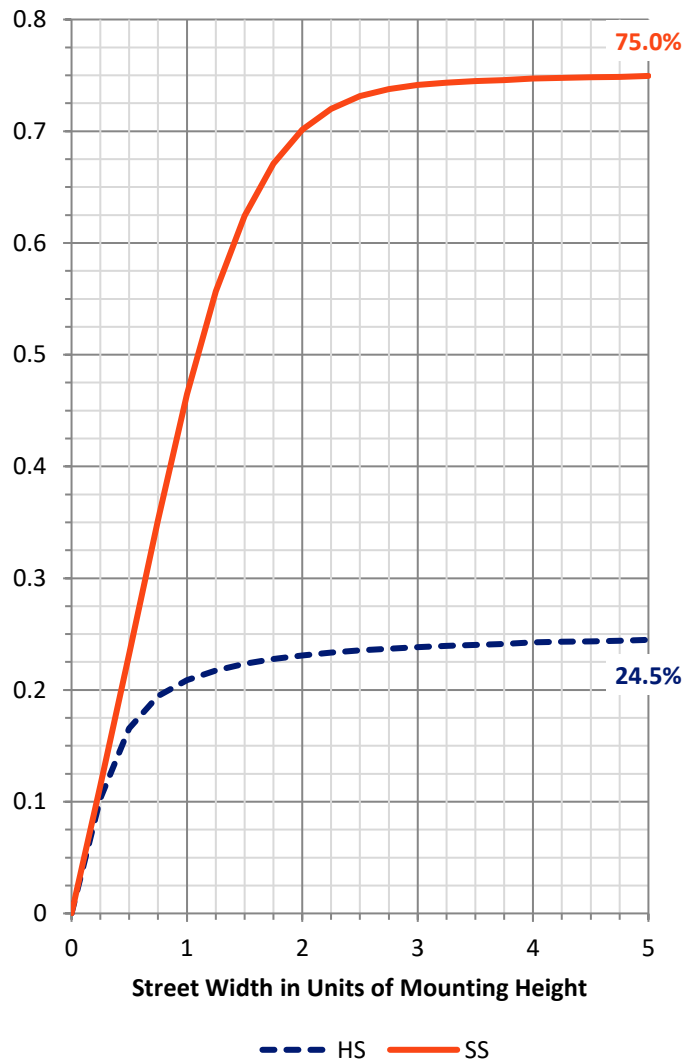
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15368.1	0.0	15368.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	46438.9	0.0	46438.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	61807.0	0.0	61807.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.7	1.1
10°-20°	2245.5	3.6
20°-30°	4328.1	7.0
30°-40°	7588.8	12.3
40°-50°	11282.1	18.3
50°-60°	14301.1	23.1
60°-70°	13993.3	22.6
70°-80°	6675.0	10.8
80°-90°	713.4	1.2
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°	61807.0	100.0
0°-180°	61807.0	100.0

Coefficient of Utilization



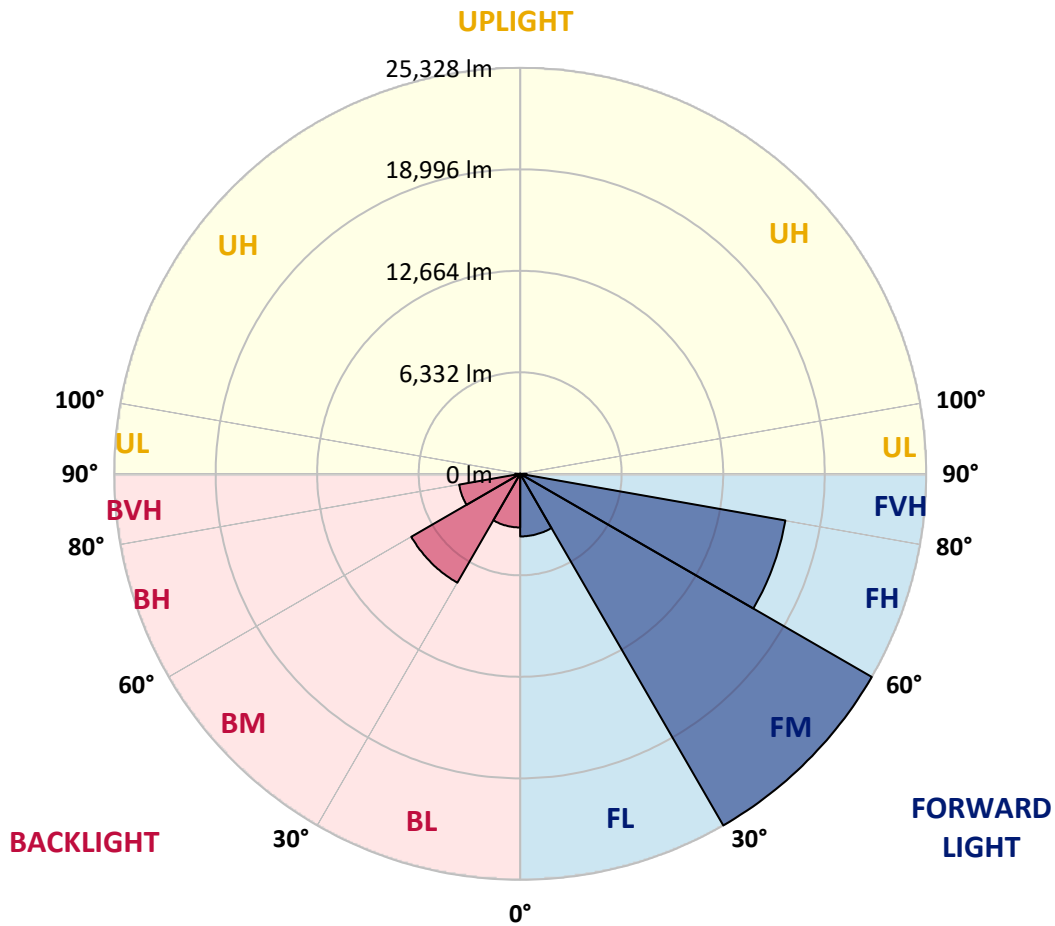
REPORT NUMBER: P885469
 CATALOG NUMBER: NAV-SB6D-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3905.6	6.3			
FM (30°-60°)	25328.0	41.0			
FH (60°-80°)	16800.8	27.2			G5
FVH (80°-90°)	404.5	0.7			G3/500
BL (0°-30°)	3347.7	5.4	B4/5000		
BM (30°-60°)	7844.1	12.7	B4/8500		
BH (60°-80°)	3867.4	6.3	B4/5000		G4/5000
BVH (80°-90°)	308.9	0.5			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 III Short



REPORT NUMBER: P885469
 CATALOG NUMBER: NAV-SB6D-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6855.2	6855.2	6855.2	6855.2	6855.2	6855.2	6855.2	6855.2	6855.2	6855.2	6855.2
2.5°	6783.8	6822.7	6813.0	6796.8	6793.5	6800.0	6809.7	6819.5	6816.2	6832.5	6858.5
5°	6764.3	6803.3	6800.0	6800.0	6813.0	6839.0	6855.2	6871.4	6855.2	6874.7	6910.4
7.5°	6777.3	6806.5	6819.5	6832.5	6865.0	6913.7	6952.6	6988.4	6968.9	6991.6	7037.1
10°	6942.9	6965.6	6978.6	6978.6	7001.3	7056.6	7095.5	7160.5	7144.2	7180.0	7238.4
12.5°	7244.9	7267.6	7267.6	7254.6	7270.9	7306.6	7319.6	7391.0	7361.8	7420.3	7478.7
15°	7615.1	7660.6	7624.8	7602.1	7608.6	7644.3	7641.1	7696.3	7667.1	7715.8	7767.7
17.5°	8024.3	8082.7	8024.3	8021.0	8008.0	8047.0	8050.2	8099.0	8047.0	8082.7	8118.4
20°	8508.1	8589.3	8540.6	8556.8	8527.6	8543.8	8560.1	8631.5	8550.3	8576.3	8566.6
22.5°	9190.1	9287.5	9235.5	9297.2	9277.8	9264.8	9261.5	9388.2	9261.5	9271.3	9177.1
25°	10183.8	10300.7	10209.8	10294.2	10294.2	10336.4	10385.1	10547.5	10336.4	10274.7	10031.1
27.5°	11651.6	11768.5	11589.9	11641.8	11625.6	11729.5	11677.6	12080.2	11852.9	11752.3	11261.9
30°	13418.2	13626.0	13288.3	13275.3	13259.0	13424.7	13499.3	13765.6	13535.1	13434.4	12843.4
32.5°	15327.6	15545.2	15142.5	15025.6	14963.9	15064.6	15002.9	15217.2	15058.1	14902.2	14171.6
35°	17347.5	17561.8	17178.6	16951.3	16704.5	16493.4	16272.6	16327.8	16178.4	15941.4	15184.7
37.5°	19256.9	19649.9	19244.0	19000.4	18545.8	18133.4	17516.4	17259.8	17120.2	16902.6	16139.5
40°	21202.1	21426.2	21117.7	20909.9	20416.3	19770.0	18782.8	18240.5	18052.2	17841.1	17194.9
42.5°	22634.2	22848.5	22682.9	22540.0	22153.6	21403.5	20127.2	19448.5	19175.8	18938.7	18389.9
45°	23770.8	23929.9	23826.0	23878.0	23712.3	22984.9	21520.4	20744.2	20461.7	20172.7	19740.8
47.5°	24228.7	24397.5	24563.2	24871.7	25154.2	24618.4	23017.4	22147.1	21848.4	21552.8	21127.4
50°	24176.7	24348.8	24829.4	25485.4	26362.2	26183.6	24595.6	23640.9	23364.9	23027.2	22634.2
52.5°	23761.1	23955.9	24572.9	25664.0	27060.4	27355.9	26203.1	25183.4	24923.6	24520.9	24128.0
55°	22669.9	22786.8	23712.3	25258.1	27226.0	28174.2	27778.1	26826.6	26566.8	26005.0	25576.3
57.5°	20646.8	20815.7	22163.3	24163.7	26810.3	28729.5	29161.4	28554.2	28304.1	27495.5	27047.4
60°	18006.7	18276.2	19818.7	22325.7	25751.7	28726.3	30418.2	30252.6	30044.7	28963.4	28495.7
62.5°	15019.1	15330.9	16814.9	19727.8	23900.7	27911.2	31204.0	31674.9	31567.8	30317.5	29720.0
65°	11534.7	11749.0	13226.6	16366.8	21020.3	26160.9	31295.0	32645.9	32665.4	31346.9	30359.7
67.5°	7680.0	8297.0	9579.8	12281.6	17162.4	23299.9	30496.1	32805.0	32993.4	31700.9	30038.2
70°	3747.5	4559.3	5816.1	7982.1	12281.6	18912.7	28408.1	31499.6	31918.5	30668.2	28122.3
72.5°	1555.5	1818.5	2503.7	3939.1	7050.1	12762.2	24212.4	27959.9	28736.0	27174.1	23644.2
75°	1048.9	1136.6	1432.1	2019.9	3211.7	6293.4	17461.1	20848.2	22098.4	20523.4	16776.0
77.5°	808.6	863.8	1042.4	1412.6	1909.5	2380.3	9346.0	12564.1	13210.3	12229.6	8728.9
80°	636.5	678.7	779.4	1029.4	1354.2	1273.0	3185.7	5692.7	6066.1	5088.6	2805.7
82.5°	552.1	568.3	558.5	698.2	899.5	743.6	1045.7	2101.1	2318.6	1682.1	915.8
85°	399.4	444.9	464.4	431.9	477.4	376.7	428.7	743.6	818.3	730.7	516.3
87.5°	162.4	240.3	295.5	279.3	175.4	107.2	133.1	217.6	250.0	272.8	168.9
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: P885469
 CATALOG NUMBER: NAV-SB6D-735-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6855.2	6855.2	6855.2	6855.2	6855.2	6855.2	6855.2	6855.2	6855.2	6855.2	6855.2
2.5°	6861.7	6884.4	6900.7	6920.2	6933.2	6952.6	6991.6	7014.3	7017.6	7033.8	7030.6
5°	6923.4	6955.9	6991.6	7043.6	7102.0	7150.7	7225.4	7277.4	7296.9	7313.1	7309.8
7.5°	7056.6	7102.0	7167.0	7257.9	7342.3	7407.3	7498.2	7559.9	7621.6	7644.3	7647.6
10°	7254.6	7319.6	7413.8	7537.2	7628.1	7712.5	7806.7	7858.7	7920.4	7946.3	7959.3
12.5°	7501.4	7569.6	7693.0	7865.1	7949.6	8008.0	8040.5	8027.5	8040.5	8063.2	8069.7
15°	7784.0	7858.7	7998.3	8183.4	8241.8	8189.9	8118.4	8053.5	8043.8	8050.2	8073.0
17.5°	8118.4	8173.6	8336.0	8491.9	8449.7	8235.3	8079.5	7975.6	7923.6	7907.4	7930.1
20°	8586.1	8586.1	8719.2	8816.6	8534.1	8170.4	7926.8	7758.0	7650.8	7605.4	7595.6
22.5°	9154.4	9102.4	9186.8	9118.6	8517.9	7988.5	7650.8	7358.6	7196.2	7131.2	7121.5
25°	9875.3	9813.6	9790.8	9368.7	8401.0	7699.5	7150.7	6796.8	6653.9	6618.2	6624.6
27.5°	10963.1	10807.3	10511.8	9505.1	8186.6	7244.9	6566.2	6238.2	6157.0	6160.3	6170.0
30°	12411.5	12099.7	11375.6	9527.8	7835.9	6601.9	5968.7	5734.9	5695.9	5712.1	5767.3
32.5°	13752.6	13457.1	12258.8	9423.9	7296.9	5971.9	5432.9	5277.0	5218.5	5238.0	5264.0
35°	14804.8	14723.6	13077.2	9277.8	6634.4	5380.9	4952.3	4819.1	4705.4	4679.5	4699.0
37.5°	15798.5	15766.0	13690.9	9073.2	5978.4	4962.0	4565.8	4390.5	4224.8	4133.9	4137.2
40°	16889.6	16857.1	14093.6	8758.2	5397.1	4598.3	4218.3	3987.8	3783.2	3617.6	3633.8
42.5°	18117.1	17925.5	14285.2	8306.8	4903.5	4289.8	3935.8	3624.1	3354.5	3201.9	3211.7
45°	19458.3	19026.4	14282.0	7732.0	4487.9	4007.3	3633.8	3192.2	2942.1	2799.2	2792.7
47.5°	20880.6	20078.5	14106.6	7095.5	4085.2	3695.5	3166.2	2828.5	2662.8	2575.2	2555.7
50°	22348.4	21062.5	13807.8	6364.9	3672.8	3341.6	2873.9	2643.4	2516.7	2435.5	2406.3
52.5°	23728.6	21955.5	13447.4	5536.8	3253.9	2997.3	2744.0	2565.4	2432.3	2341.4	2302.4
55°	25011.3	22725.1	12937.6	4689.2	2912.9	2766.8	2682.3	2533.0	2380.3	2273.2	2230.9
57.5°	26151.1	23225.2	12057.5	3893.6	2669.3	2607.6	2617.4	2477.7	2302.4	2211.5	2153.0
60°	27099.4	23592.2	10755.3	3156.5	2471.3	2451.8	2516.7	2373.8	2169.2	2065.3	2019.9
62.5°	27667.7	23585.7	9157.6	2584.9	2302.4	2308.9	2383.6	2243.9	2036.1	1938.7	1909.5
65°	27618.9	23007.7	7404.0	2211.5	2140.0	2146.5	2243.9	2101.1	1925.7	1867.2	1864.0
67.5°	26641.5	21598.3	5679.7	1967.9	1961.4	1990.6	2104.3	2003.6	1857.5	1851.0	1860.7
70°	23994.9	18672.4	4091.7	1773.1	1776.3	1818.5	1967.9	1941.9	1821.8	1834.8	1831.5
72.5°	19240.7	14236.5	2747.3	1568.5	1571.7	1639.9	1838.0	1893.2	1786.1	1958.2	1984.1
75°	12814.2	8878.3	1766.6	1350.9	1354.2	1441.8	1724.4	1799.0	1688.6	1951.7	1967.9
77.5°	6157.0	3991.0	1279.5	1136.6	1136.6	1217.8	1490.5	1610.7	1438.6	1516.5	1389.9
80°	2127.0	1500.3	1006.7	915.8	896.3	951.5	1256.7	1396.4	1240.5	1143.1	1071.6
82.5°	837.8	779.4	808.6	711.2	646.2	681.9	977.5	1152.8	912.5	824.8	821.6
85°	480.6	506.6	571.5	470.9	373.4	418.9	717.7	828.1	688.4	607.3	620.2
87.5°	129.9	178.6	263.0	243.6	168.9	178.6	341.0	457.9	396.2	305.3	315.0
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)