

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: P885454

Luminaire Tested: **NAV-SB6D-730-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-730-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60269 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

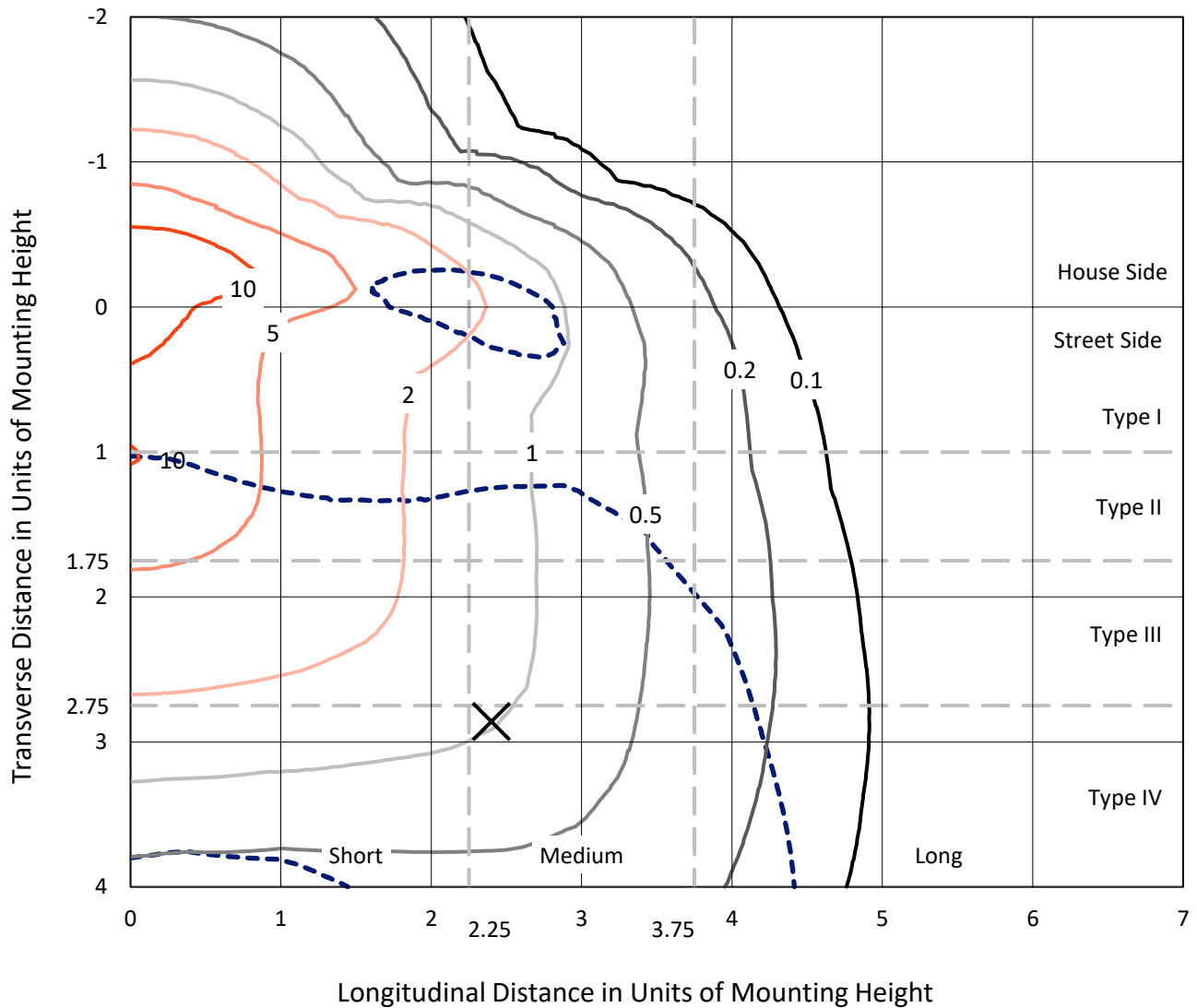
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P885454
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Iso-Footcandle Lines of Horizontal Illumination

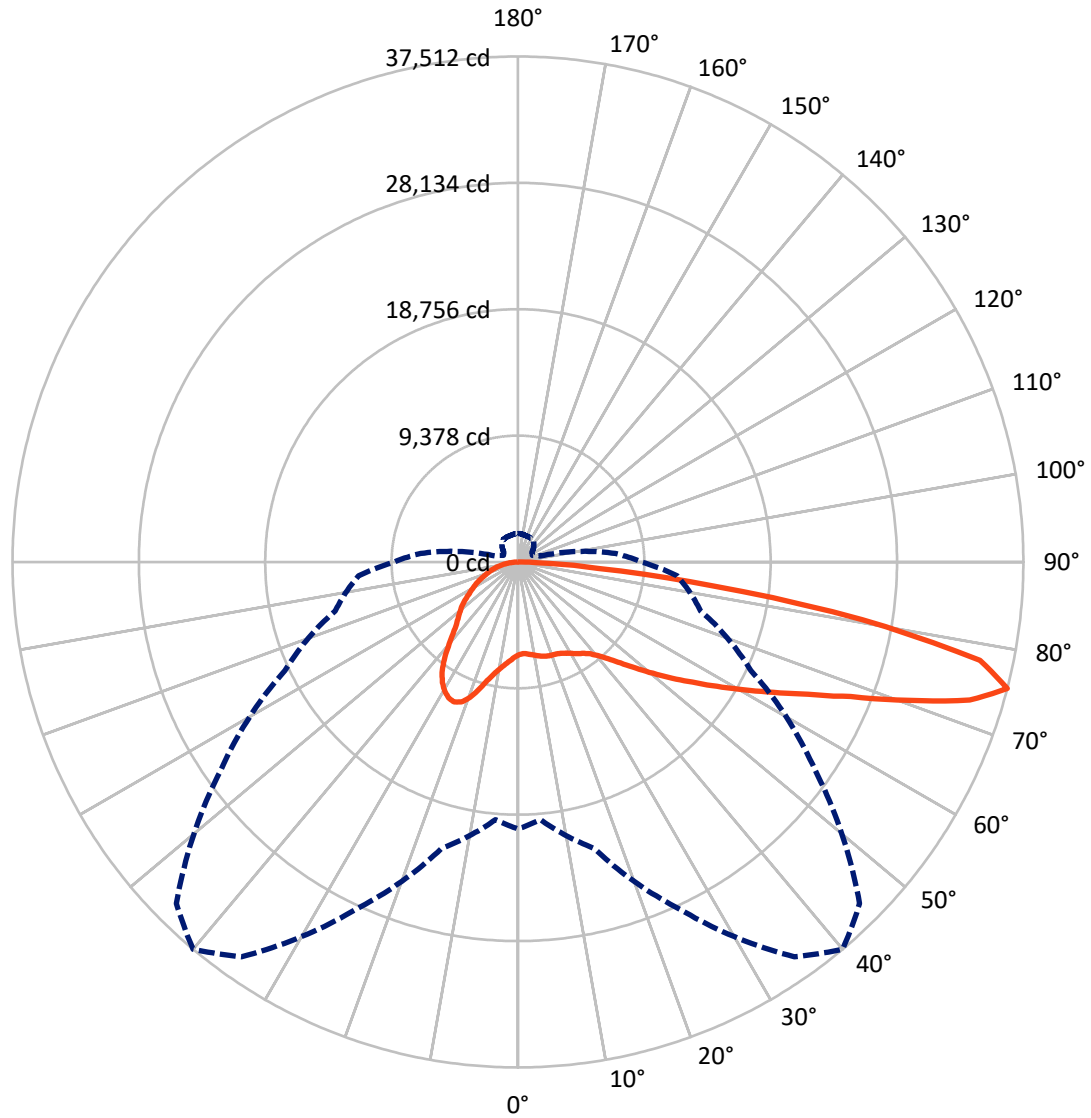
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P885454
CATALOG NUMBER: NAV-SB6D-730-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P885454

CATALOG NUMBER: NAV-SB6D-730-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18673.3	0.0	18673.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	41595.6	0.0	41595.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	60269.0	0.0	60269.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.9	1.1
10°-20°	2309.7	3.8
20°-30°	4217.4	7.0
30°-40°	5981.4	9.9
40°-50°	8076.7	13.4
50°-60°	10865.3	18.0
60°-70°	13790.5	22.9
70°-80°	12515.7	20.8
80°-90°	1824.4	3.0
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°	60269.0	100.0
0°-180°	60269.0	100.0

Coefficient of Utilization



REPORT NUMBER: P885454

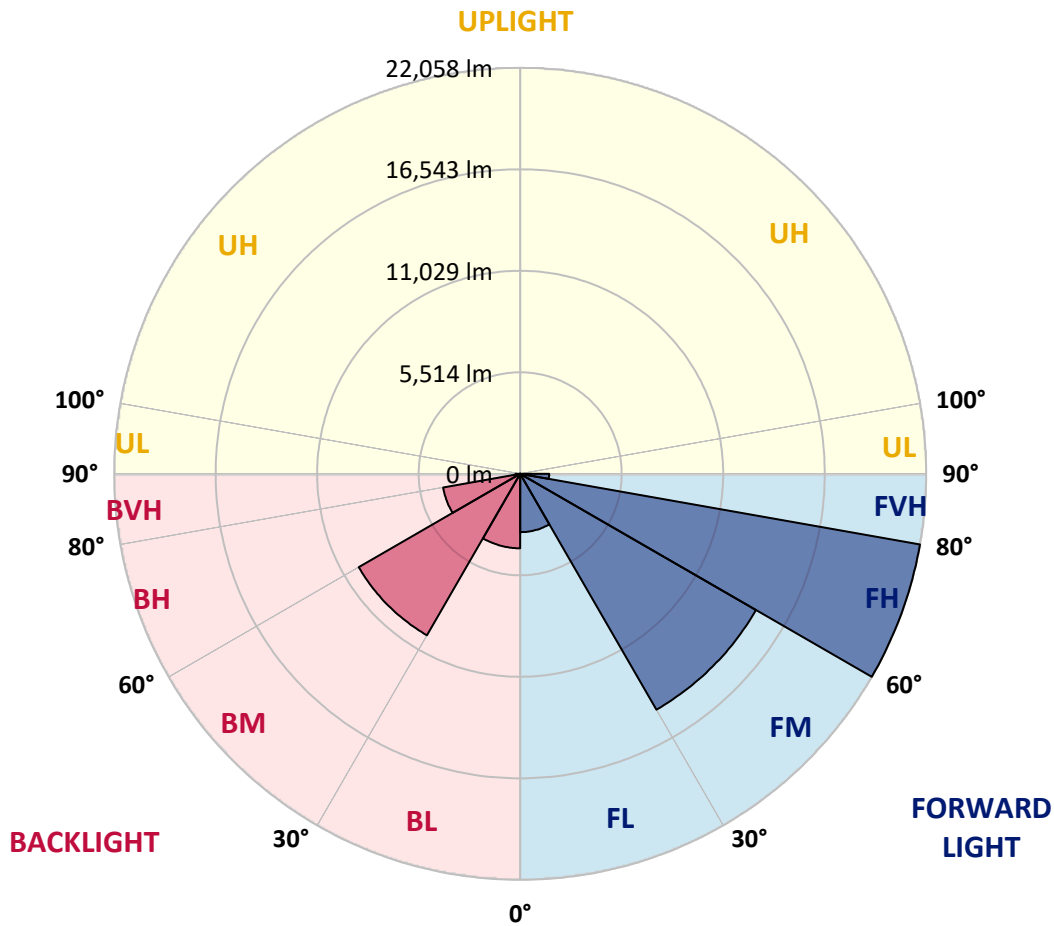
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3170.2	5.3			
FM (30°-60°)	14794.7	24.5			
FH (60°-80°)	22057.5	36.6			G5
FVH (80°-90°)	1573.2	2.6			G5
BL (0°-30°)	4044.8	6.7	B4/5000		
BM (30°-60°)	10128.6	16.8	B5		
BH (60°-80°)	4248.7	7.0	B4/5000		G4/5000
BVH (80°-90°)	251.2	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



REPORT NUMBER: P885454

CATALOG NUMBER: NAV-SB6D-730-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8
2.5°	6786.4	6824.7	6815.1	6802.3	6802.3	6805.5	6802.3	6824.7	6847.1	6869.5	6904.6
5°	6856.7	6895.0	6875.9	6859.9	6847.1	6843.9	6834.3	6831.1	6843.9	6872.7	6920.6
7.5°	6994.1	7032.5	7003.7	6975.0	6949.4	6936.6	6923.8	6904.6	6895.0	6911.0	6978.1
10°	7147.6	7185.9	7150.8	7099.6	7058.1	7042.1	7029.3	7010.1	6997.3	7006.9	7080.4
12.5°	7301.0	7339.4	7291.4	7221.1	7166.7	7157.2	7141.2	7134.8	7131.6	7128.4	7201.9
15°	7444.8	7476.8	7416.1	7333.0	7275.4	7259.4	7243.5	7253.1	7269.0	7288.2	7371.3
17.5°	7556.7	7588.7	7499.2	7390.5	7336.2	7329.8	7320.2	7352.1	7396.9	7444.8	7547.1
20°	7659.0	7691.0	7575.9	7428.9	7364.9	7364.9	7368.1	7435.3	7499.2	7569.5	7710.2
22.5°	7802.9	7828.4	7687.8	7486.4	7393.7	7400.1	7425.7	7492.8	7572.7	7668.6	7863.6
25°	8017.0	8036.2	7863.6	7595.1	7489.6	7508.8	7531.2	7563.1	7639.8	7751.7	8013.8
27.5°	8362.3	8378.3	8151.3	7786.9	7627.1	7659.0	7691.0	7668.6	7703.8	7799.7	8135.3
30°	8848.2	8857.7	8570.0	8087.4	7860.4	7876.4	7882.8	7790.1	7723.0	7799.7	8221.6
32.5°	9423.5	9420.3	9078.3	8451.8	8125.7	8109.7	8055.4	7873.2	7716.6	7783.7	8298.3
35°	10315.4	10280.2	9839.1	8963.2	8426.2	8327.1	8199.2	7965.9	7748.5	7767.7	8365.5
37.5°	11792.2	11683.5	11073.0	9800.7	8873.7	8621.2	8432.6	8116.1	7818.9	7761.3	8445.4
40°	13457.6	13320.2	12648.9	10948.3	9545.0	9139.0	8835.4	8330.3	7933.9	7790.1	8563.7
42.5°	15433.1	15238.1	14515.7	12300.5	10395.3	9807.1	9350.0	8602.0	8103.3	7882.8	8723.5
45°	17859.3	17600.4	16577.5	13825.2	11466.2	10683.0	10072.4	9014.4	8362.3	8061.8	8963.2
47.5°	20311.1	20375.0	18920.6	15570.6	12751.2	11763.4	10977.1	9634.5	8739.5	8349.5	9350.0
50°	22916.3	22961.1	21250.9	17504.5	14208.8	12984.5	11993.6	10328.2	9263.7	8758.6	9928.6
52.5°	24949.4	24955.8	23367.0	19527.9	15727.2	14327.1	13090.0	11120.9	9871.1	9302.1	10699.0
55°	26221.6	26205.6	24850.3	21442.7	17472.5	15736.8	14304.7	12022.4	10612.7	9941.4	11667.5
57.5°	27145.4	27097.5	25873.2	23088.9	19333.0	17402.2	15679.3	13045.3	11488.5	10702.2	12943.0
60°	27497.0	27468.3	26566.8	24511.4	21289.3	19243.5	17264.8	14189.6	12482.7	11600.4	14582.8
62.5°	27631.3	27685.6	27247.7	25889.2	23383.0	21282.9	19006.9	15557.8	13601.5	12616.9	16312.2
65°	28104.4	28203.5	28114.0	27692.0	25748.5	23670.7	21318.0	17184.8	14822.6	13707.0	18118.3
67.5°	29041.0	29140.1	29178.4	29849.7	28638.2	26646.7	24201.4	19211.5	16251.4	14838.6	19476.8
70°	29018.6	28989.8	29667.5	31566.3	32256.8	30767.1	28088.4	21704.8	17955.2	15778.4	19649.4
72.5°	26413.4	26183.2	27784.7	31547.1	35267.9	35069.8	32835.3	24920.6	19425.7	15893.4	17050.6
75°	19815.6	19201.9	22030.9	28430.4	35769.8	37511.9	35852.9	26915.3	19077.2	14042.6	11865.7
77.5°	8474.2	7857.2	11191.2	21046.3	32013.8	35066.6	33084.7	23482.1	15228.5	9286.1	5827.4
80°	2218.4	2215.2	3382.0	9541.8	21772.0	25895.5	22718.1	15164.6	8701.1	3318.1	1607.9
82.5°	917.4	895.0	1243.5	3711.2	10638.2	14531.7	11859.3	6764.0	3142.2	898.2	533.8
85°	342.0	338.8	604.2	1281.8	3752.8	5993.6	4337.8	1729.4	783.2	437.9	239.7
87.5°	95.9	92.7	131.1	444.3	914.2	1387.3	741.6	284.5	220.6	172.6	70.3
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: P885454

CATALOG NUMBER: NAV-SB6D-730-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8
2.5°	6914.2	6930.2	6959.0	6981.3	7010.1	7042.1	7086.8	7115.6	7144.4	7163.6	7150.8
5°	6943.0	6978.1	7051.7	7125.2	7211.5	7291.4	7384.1	7451.2	7505.6	7521.6	7528.0
7.5°	7006.9	7064.5	7189.1	7313.8	7451.2	7582.3	7716.6	7831.6	7924.3	7959.5	7962.7
10°	7118.8	7195.5	7371.3	7547.1	7729.3	7930.7	8103.3	8269.6	8400.6	8455.0	8458.2
12.5°	7259.4	7355.3	7585.5	7828.4	8081.0	8359.1	8582.8	8787.4	8950.4	9024.0	9024.0
15°	7441.7	7566.3	7860.4	8186.5	8557.3	8944.0	9228.5	9455.5	9637.7	9727.2	9720.8
17.5°	7639.8	7806.1	8176.9	8669.1	9199.8	9708.0	10040.5	10206.7	10395.3	10481.6	10478.4
20°	7831.6	8036.2	8566.9	9282.9	9989.3	10529.6	10798.1	10842.8	10855.6	10865.2	10890.8
22.5°	8029.8	8304.7	9055.9	10056.5	10814.1	11188.1	11226.4	11034.6	10766.1	10641.4	10676.6
25°	8247.2	8611.6	9695.2	10909.9	11523.7	11568.4	11274.4	10807.7	10299.4	10066.1	10101.2
27.5°	8458.2	8966.4	10462.4	11725.1	12035.1	11642.0	11009.0	10347.4	9733.6	9487.5	9516.2
30°	8669.1	9372.4	11309.5	12437.9	12268.5	11459.8	10590.3	9851.9	9234.9	8976.0	9004.8
32.5°	8883.3	9845.5	12284.5	12952.6	12226.9	11073.0	10069.2	9295.7	8752.3	8480.5	8515.7
35°	9126.3	10427.3	13208.3	13233.9	11948.8	10504.0	9382.0	8630.8	8157.7	7940.3	7988.3
37.5°	9442.7	11165.7	14023.4	13304.2	11463.0	9669.7	8528.5	7844.4	7454.4	7355.3	7425.7
40°	9835.9	12054.3	14646.8	13192.3	10743.7	8656.4	7595.1	7048.5	6827.9	6850.3	6927.0
42.5°	10347.4	13048.5	15084.7	12904.6	9743.2	7611.1	6776.8	6533.8	6639.3	6728.8	6811.9
45°	11012.2	14081.0	15356.4	12415.5	8611.6	6725.6	6294.1	6351.6	6431.5	6441.1	6505.1
47.5°	11862.5	15126.2	15535.4	11677.1	7457.6	6102.3	5987.2	6000.0	5984.0	5916.9	5968.0
50°	12923.8	16142.8	15695.2	10699.0	6476.3	5712.3	5558.9	5514.1	5293.5	5076.2	5104.9
52.5°	14132.1	17076.2	15762.4	9484.3	5712.3	5386.2	5136.9	4855.6	4443.3	4376.1	4398.5
55°	15474.7	17939.2	15589.8	7991.5	5069.8	4967.5	4590.3	4251.5	4206.7	4149.2	4158.8
57.5°	17079.4	18869.5	15238.1	6326.0	4411.3	4478.4	4110.8	4149.2	4069.3	3979.8	3963.8
60°	18834.3	19831.6	14621.2	4807.7	3730.4	3867.9	3986.1	3982.9	3960.6	3887.0	3861.5
62.5°	20413.4	20464.5	13406.5	3682.5	3132.7	3394.8	3717.6	3714.4	3695.3	3653.7	3637.7
65°	21353.2	20368.6	11379.8	2899.3	2640.4	3004.8	3353.2	3378.8	3382.0	3378.8	3378.8
67.5°	21187.0	19246.6	8598.8	2307.9	2234.4	2608.4	2992.0	3027.2	3052.7	3059.1	3065.5
70°	19307.4	16782.1	5606.8	1841.2	1873.2	2260.0	2650.0	2685.1	2707.5	2733.1	2745.9
72.5°	15049.5	12338.8	3209.4	1489.6	1556.7	1959.5	2311.1	2352.7	2365.5	2413.4	2432.6
75°	9171.0	7256.3	1732.5	1173.1	1278.6	1675.0	1975.5	2023.4	2045.8	2103.4	2109.7
77.5°	4360.1	3142.2	987.7	914.2	1029.3	1368.1	1668.6	1723.0	1662.2	1694.2	1668.6
80°	1473.6	1166.8	623.3	696.9	786.4	1067.7	1336.2	1390.5	1262.7	1256.3	1243.5
82.5°	514.7	473.1	396.4	463.5	508.3	764.0	1010.1	1080.4	939.8	936.6	891.8
85°	201.4	191.8	220.6	252.5	303.7	469.9	664.9	700.1	578.6	466.7	460.3
87.5°	41.6	44.8	54.3	57.5	92.7	163.0	239.7	294.1	233.4	198.2	182.2
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)