

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: P885451

Luminaire Tested: **NAV-SB6D-727-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-727-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55324 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

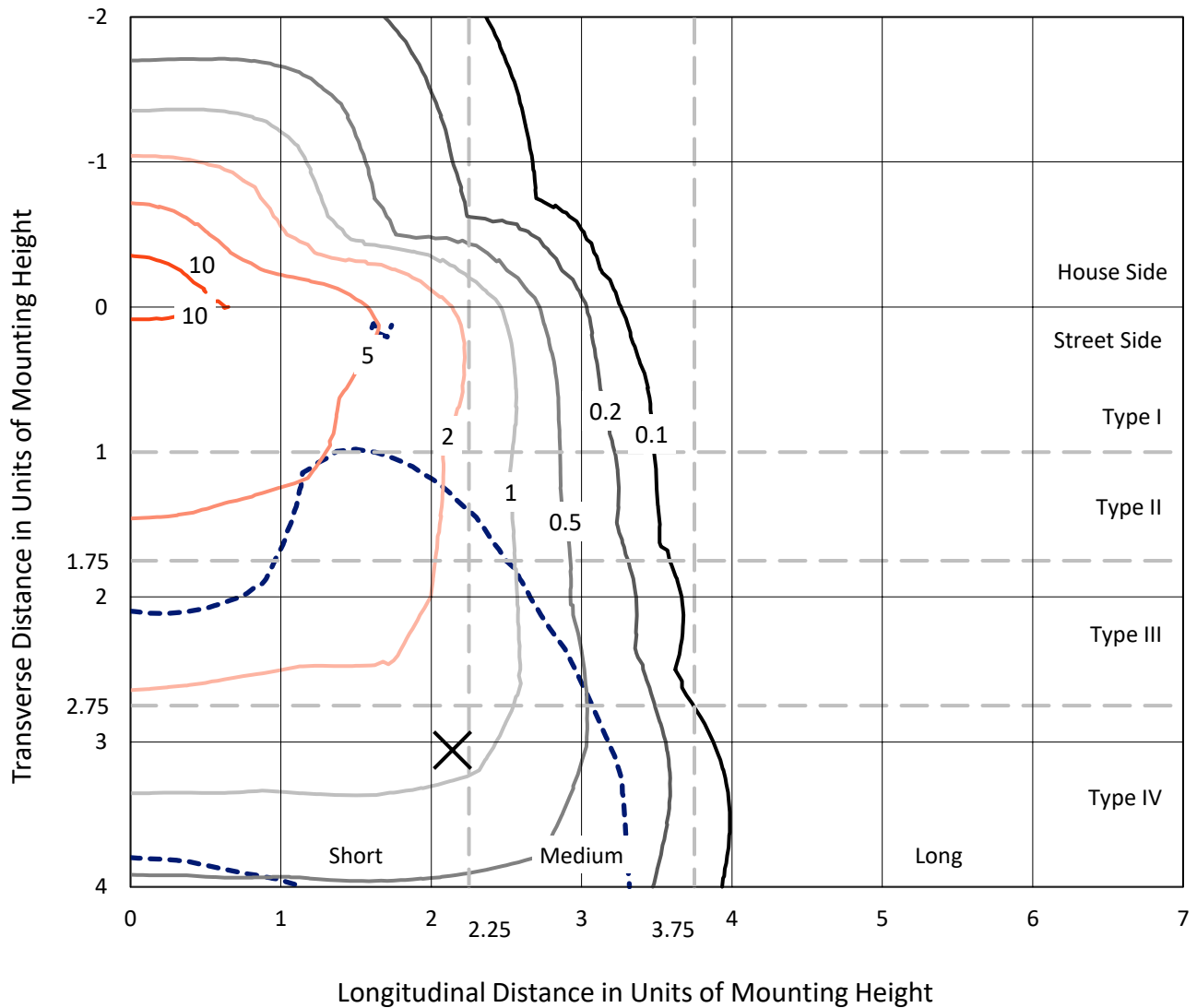
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

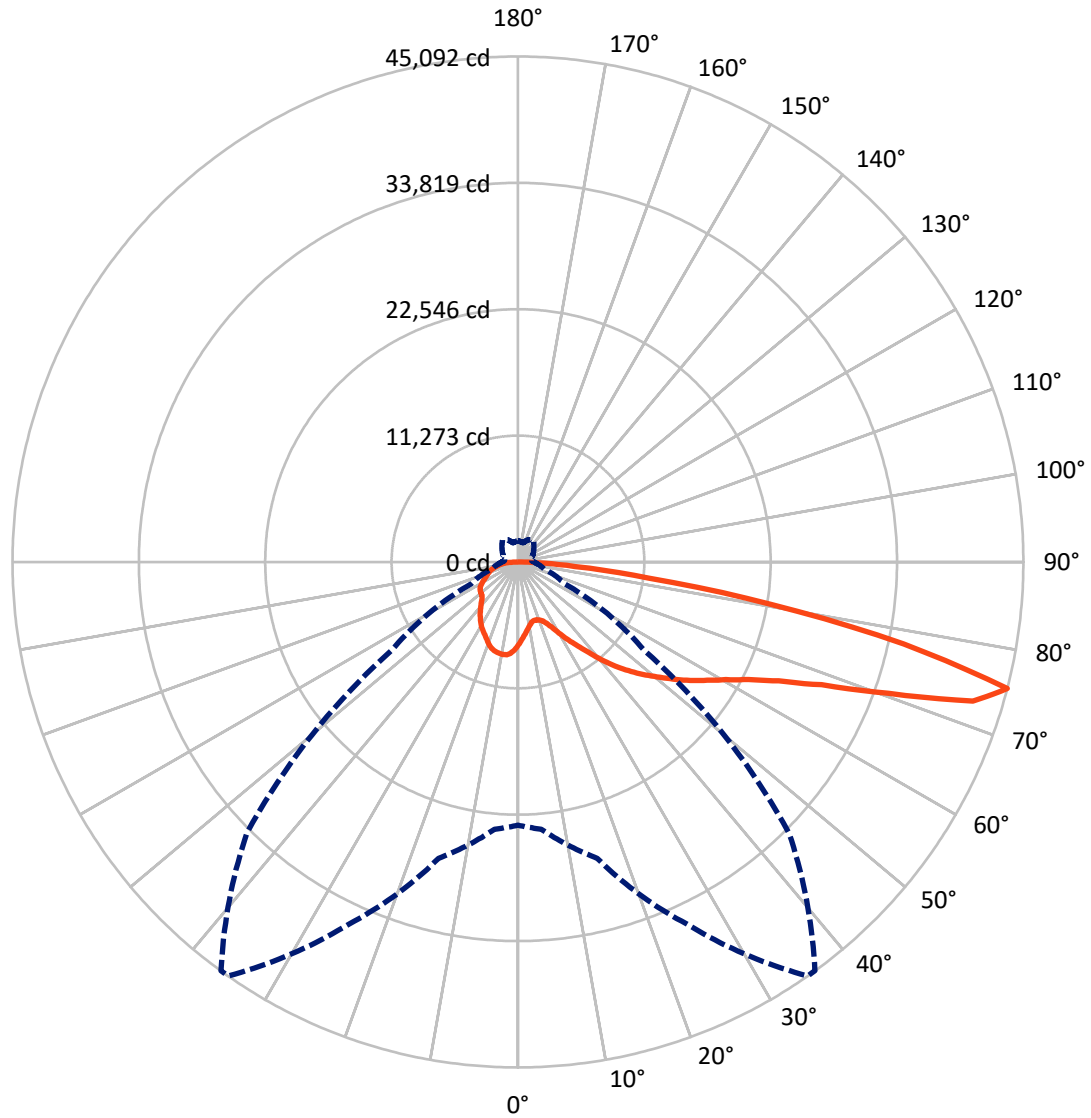
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13165.7	0.0	13165.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	42158.3	0.0	42158.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	55324.0	0.0	55324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.0	1.3
10°-20°	2013.4	3.6
20°-30°	3381.0	6.1
30°-40°	5254.5	9.5
40°-50°	7799.1	14.1
50°-60°	10767.1	19.5
60°-70°	13062.9	23.6
70°-80°	10795.5	19.5
80°-90°	1552.7	2.8
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°	55324.0	100.0
0°-180°	55324.0	100.0

Coefficient of Utilization



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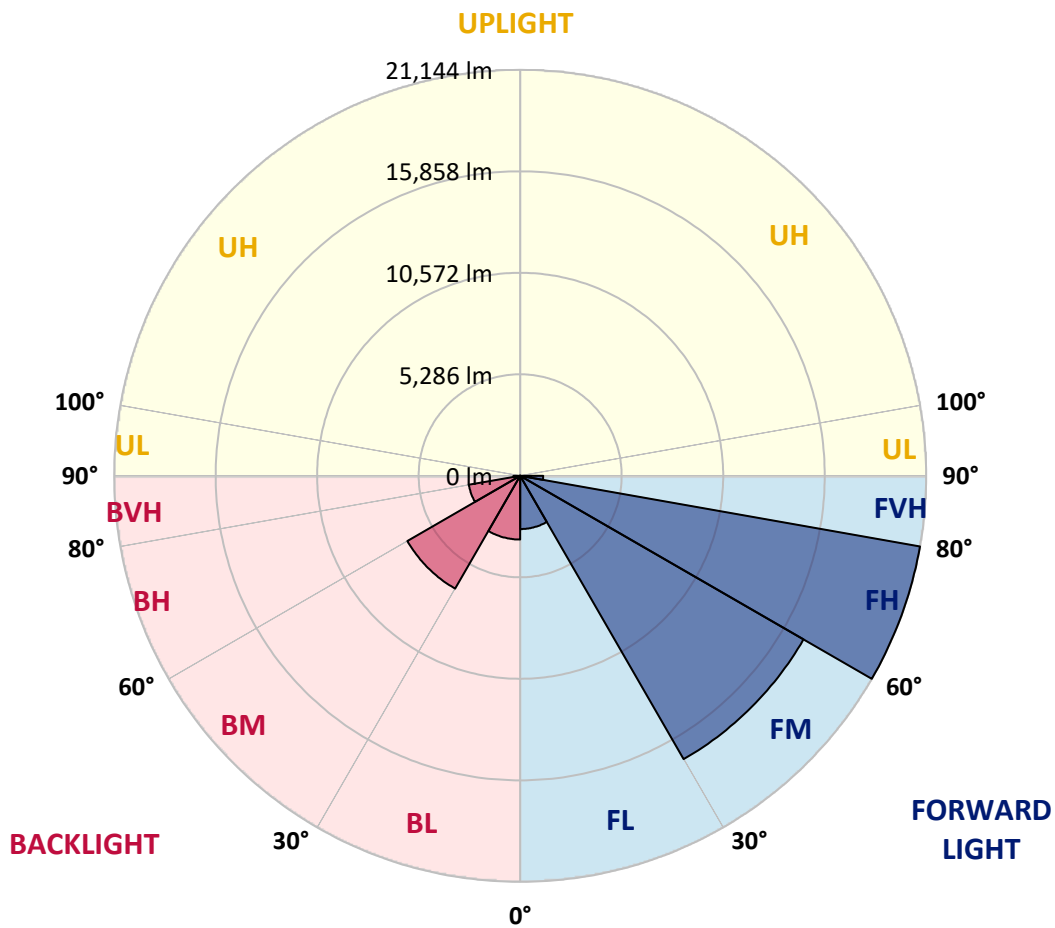
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2774.4	5.0			
FM (30°-60°)	17036.8	30.8			
FH (60°-80°)	21144.0	38.2			G5
FVH (80°-90°)	1203.1	2.2			G5
BL (0°-30°)	3317.9	6.0	B4/5000		
BM (30°-60°)	6783.8	12.3	B4/8500		
BH (60°-80°)	2714.4	4.9	B4/5000		G4/5000
BVH (80°-90°)	349.6	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	7372.3	7372.3	7372.3	7372.3	7372.3	7372.3	7372.3	7372.3	7372.3	7372.3	7372.3
2.5°	6798.1	6839.9	6857.9	6848.9	6893.8	6887.8	6950.6	7028.4	7136.0	7240.7	7393.2
5°	6274.7	6319.5	6358.4	6394.3	6481.0	6508.0	6606.7	6756.2	6953.6	7154.0	7405.2
7.5°	5787.2	5826.1	5885.9	5951.7	6098.2	6125.1	6289.6	6522.9	6798.1	7091.2	7438.1
10°	5389.4	5428.3	5491.1	5565.9	5748.3	5781.2	5990.6	6301.6	6660.5	7031.3	7474.0
12.5°	5218.9	5230.9	5266.8	5341.6	5500.1	5521.0	5751.3	6107.2	6525.9	6986.5	7527.8
15°	5210.0	5233.9	5236.9	5275.8	5407.3	5416.3	5628.7	5981.6	6442.2	6977.5	7608.6
17.5°	5299.7	5317.6	5290.7	5314.6	5425.3	5440.2	5607.7	5921.8	6415.2	7016.4	7746.1
20°	5538.9	5553.9	5473.1	5440.2	5521.0	5533.0	5697.5	5960.6	6442.2	7097.1	7934.6
22.5°	6047.4	6056.3	5859.0	5724.4	5730.4	5736.3	5879.9	6119.2	6546.8	7243.7	8173.8
25°	6839.9	6834.0	6519.9	6259.7	6110.2	6077.3	6173.0	6376.4	6723.3	7438.1	8481.9
27.5°	7767.1	7722.2	7408.2	7019.4	6693.4	6645.5	6624.6	6711.3	6974.5	7695.3	8858.7
30°	8813.9	8772.0	8434.0	7925.6	7474.0	7396.2	7198.8	7154.0	7348.4	8045.2	9382.1
32.5°	9962.3	9935.4	9531.6	8915.5	8311.4	8221.7	7889.7	7770.1	7922.6	8574.6	10111.9
35°	10925.4	10901.4	10566.5	9932.4	9193.7	9083.0	8745.1	8610.5	8688.2	9253.5	11065.9
37.5°	11795.7	11783.7	11496.6	10997.1	10234.5	10099.9	9720.1	9675.2	9660.3	10147.8	12223.4
40°	12603.2	12573.3	12274.2	12011.0	11445.8	11323.1	10988.2	10949.3	10835.6	11248.4	13533.3
42.5°	13497.4	13419.7	12986.0	12863.4	12710.9	12609.2	12408.8	12414.8	12163.5	12489.5	14921.1
45°	14227.2	14182.3	13736.7	13664.9	13829.4	13787.5	13961.0	14005.9	13518.4	13790.5	16362.6
47.5°	15010.8	14968.9	14592.1	14541.2	14986.8	14998.8	15611.9	15626.9	14840.3	15142.4	17807.2
50°	15976.8	15917.0	15543.1	15605.9	16105.4	16150.3	17271.8	17170.1	16057.6	16515.1	19239.8
52.5°	16613.8	16649.7	16569.0	16670.7	17352.6	17394.4	18904.8	18644.6	17262.8	17870.0	20645.4
55°	17083.4	17155.2	17406.4	17639.7	18668.5	18710.4	20445.0	20047.3	18261.8	19126.1	21967.4
57.5°	17687.5	17585.8	18055.4	18510.0	19918.7	20029.3	21943.4	21399.1	19147.0	20208.8	22873.6
60°	18554.9	18483.1	18848.0	19520.9	21318.4	21494.8	23528.5	22616.4	19796.0	21067.1	23050.0
62.5°	20313.4	20134.0	20190.8	20786.0	23082.9	23316.2	25317.0	23678.1	20119.0	21402.1	22104.9
65°	22942.3	22634.3	22347.2	22759.9	25568.3	25798.6	27335.8	24512.5	19999.4	20753.1	19595.7
67.5°	26253.2	25948.1	25595.2	25984.0	29229.0	29411.4	29827.1	24982.1	19057.3	18252.8	15160.3
70°	28983.7	28870.1	29291.8	30891.9	35076.0	35082.0	33021.3	24593.3	16476.3	12941.1	8772.0
72.5°	28621.9	28553.1	30775.2	35722.0	42445.3	42286.8	36045.0	21650.3	11098.8	5838.0	3286.9
75°	23480.7	23926.3	27368.7	35635.3	45092.1	45071.2	34193.7	13763.6	4590.9	2419.5	1698.8
77.5°	12591.2	13297.1	17768.3	26310.0	35201.6	35731.0	24040.0	4815.2	1970.9	1549.2	1175.4
80°	4106.4	4722.5	7082.2	13395.7	22873.6	22774.9	10303.3	1890.2	1348.8	1097.6	813.5
82.5°	1743.6	1815.4	3164.3	6325.5	11738.9	11556.4	3280.9	1085.7	948.1	750.7	502.5
85°	681.9	762.7	1396.7	2925.0	5084.3	4973.7	1184.4	538.3	607.1	490.5	299.1
87.5°	224.3	272.2	499.5	1001.9	1582.1	1525.3	290.1	185.4	263.2	224.3	107.7
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°	7372.3	7372.3	7372.3	7372.3	7372.3	7372.3	7372.3	7372.3	7372.3	7372.3	7372.3
2.5°	7435.1	7483.0	7539.8	7623.5	7695.3	7755.1	7817.9	7856.8	7871.8	7916.6	7913.6
5°	7488.9	7593.6	7734.2	7871.8	8006.3	8087.1	8158.9	8194.8	8227.7	8251.6	8257.6
7.5°	7578.7	7713.2	7934.6	8114.0	8227.7	8293.5	8341.3	8329.4	8341.3	8347.3	8356.3
10°	7656.4	7844.8	8108.0	8278.5	8365.2	8368.2	8356.3	8314.4	8293.5	8296.5	8302.4
12.5°	7749.1	7958.5	8242.6	8386.2	8410.1	8344.3	8293.5	8221.7	8194.8	8182.8	8176.8
15°	7874.7	8114.0	8389.2	8443.0	8383.2	8299.4	8212.7	8096.1	8036.3	7988.4	8003.4
17.5°	8027.3	8290.5	8502.8	8463.9	8335.3	8197.8	8057.2	7880.7	7758.1	7707.3	7710.3
20°	8239.6	8475.9	8589.5	8419.1	8224.7	8015.3	7776.1	7560.7	7447.1	7396.2	7390.2
22.5°	8496.8	8724.1	8673.3	8341.3	8066.2	7731.2	7432.1	7273.6	7216.8	7180.9	7186.9
25°	8804.9	8999.3	8733.1	8227.7	7806.0	7354.4	7124.1	7073.2	7046.3	7019.4	7019.4
27.5°	9205.7	9310.3	8778.0	8060.2	7399.2	6953.6	6869.8	6878.8	6869.8	6825.0	6834.0
30°	9735.0	9714.1	8819.8	7788.0	6932.7	6591.7	6597.7	6636.6	6642.5	6612.6	6627.6
32.5°	10431.9	10219.5	8840.8	7435.1	6487.0	6274.7	6280.7	6322.5	6352.4	6301.6	6325.5
35°	11275.3	10808.7	8807.9	6992.5	6143.1	5972.6	5927.7	5939.7	5948.7	5900.8	5933.7
37.5°	12259.2	11469.7	8661.3	6502.0	5859.0	5676.5	5580.8	5500.1	5452.2	5407.3	5437.3
40°	13338.9	12190.5	8392.2	6023.5	5541.9	5362.5	5218.9	5066.4	4904.9	4845.1	4872.0
42.5°	14469.4	12932.2	8066.2	5565.9	5177.1	5030.5	4878.0	4656.7	4414.4	4291.8	4306.7
45°	15641.8	13691.8	7746.1	5114.3	4803.2	4740.4	4563.9	4297.8	4034.6	3879.1	3867.1
47.5°	16790.3	14409.6	7276.6	4659.7	4453.3	4522.1	4384.5	4139.3	3846.2	3600.9	3574.0
50°	17887.9	15082.6	6508.0	4199.1	4169.2	4456.3	4324.7	3971.8	3636.8	3322.8	3295.9
52.5°	18976.6	15626.9	5524.0	3780.4	4016.6	4438.3	4246.9	3858.1	3448.4	3119.4	3083.5
55°	19900.7	15908.0	4575.9	3421.5	3795.3	4285.8	4154.2	3723.5	3182.2	2832.3	2802.4
57.5°	20427.1	15680.7	3786.3	3068.6	3490.3	4034.6	3995.7	3436.4	2865.2	2596.0	2560.1
60°	20199.8	14759.5	3140.3	2760.5	3200.1	3762.4	3720.5	3152.3	2622.9	2368.7	2332.8
62.5°	18946.7	13004.0	2628.9	2491.3	2937.0	3484.3	3445.4	2934.0	2437.5	2192.2	2153.4
65°	16422.4	10578.4	2231.1	2267.0	2670.8	3149.3	3206.1	2751.5	2290.9	2051.7	2012.8
67.5°	12525.4	7662.4	1920.1	2072.6	2410.6	2820.3	2984.8	2619.9	2168.3	1941.0	1905.1
70°	7139.0	4351.6	1656.9	1884.2	2180.3	2515.3	2814.3	2515.3	2036.7	1848.3	1824.4
72.5°	2706.7	1997.8	1432.6	1695.8	1959.0	2258.0	2625.9	2350.8	1884.2	1743.6	1719.7
75°	1444.6	1217.3	1205.3	1474.5	1704.8	2006.8	2389.6	2189.3	1770.5	1842.3	1902.1
77.5°	984.0	861.3	1007.9	1262.1	1426.6	1728.7	2138.4	1944.0	1534.3	1528.3	1408.7
80°	681.9	610.1	819.5	1016.9	1103.6	1453.5	1866.3	1668.9	1250.2	1166.4	1115.6
82.5°	409.7	397.8	613.1	759.7	780.6	1121.5	1546.2	1399.7	1022.9	891.3	897.2
85°	224.3	236.3	391.8	445.6	454.6	783.6	1211.3	1082.7	786.6	661.0	666.9
87.5°	62.8	80.8	143.6	176.5	218.3	406.7	720.8	643.0	394.8	275.2	275.2
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)