

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: P885471

Luminaire Tested: **NAV-SB6D-735-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885471
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-735-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 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: 61047 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

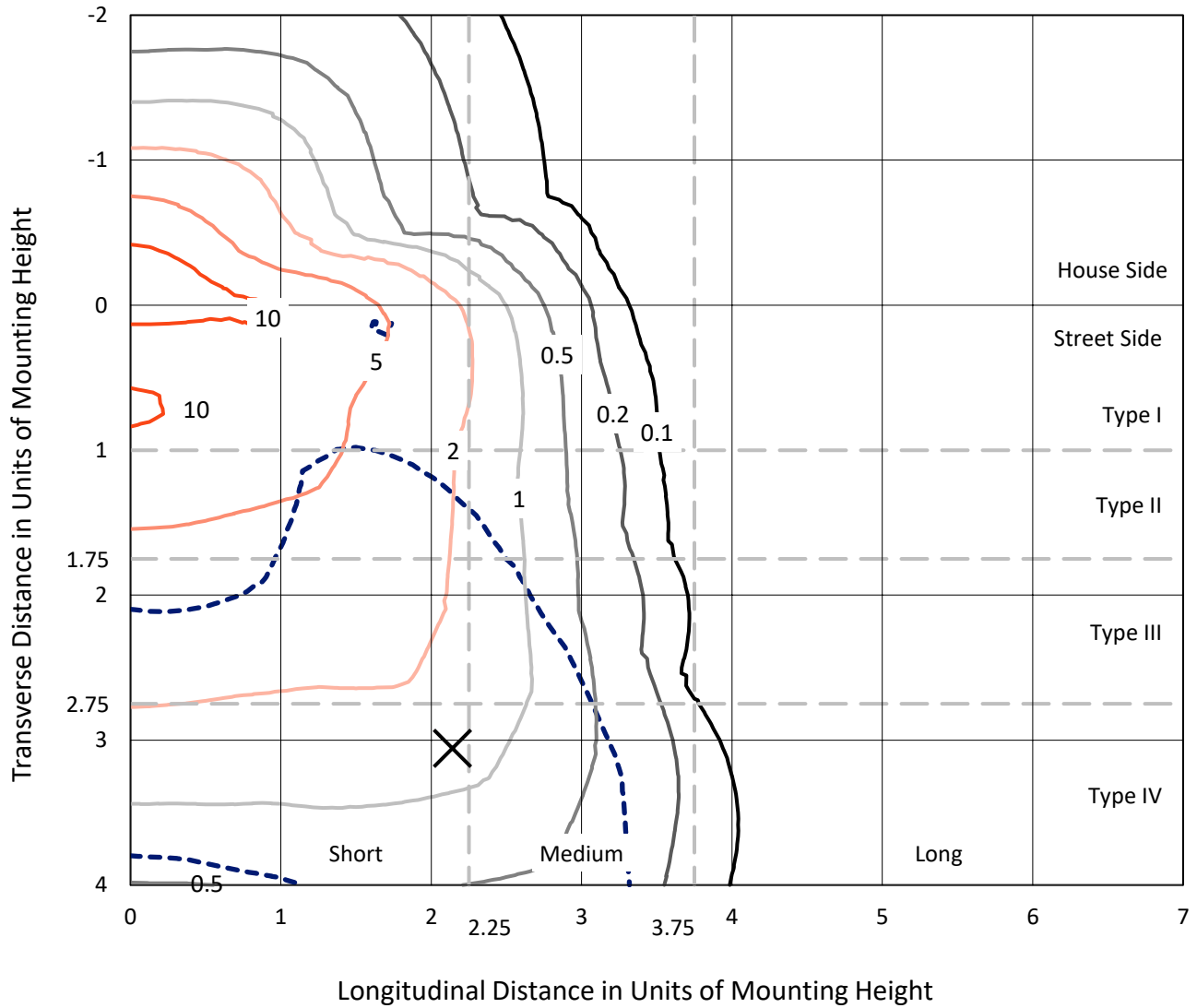
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

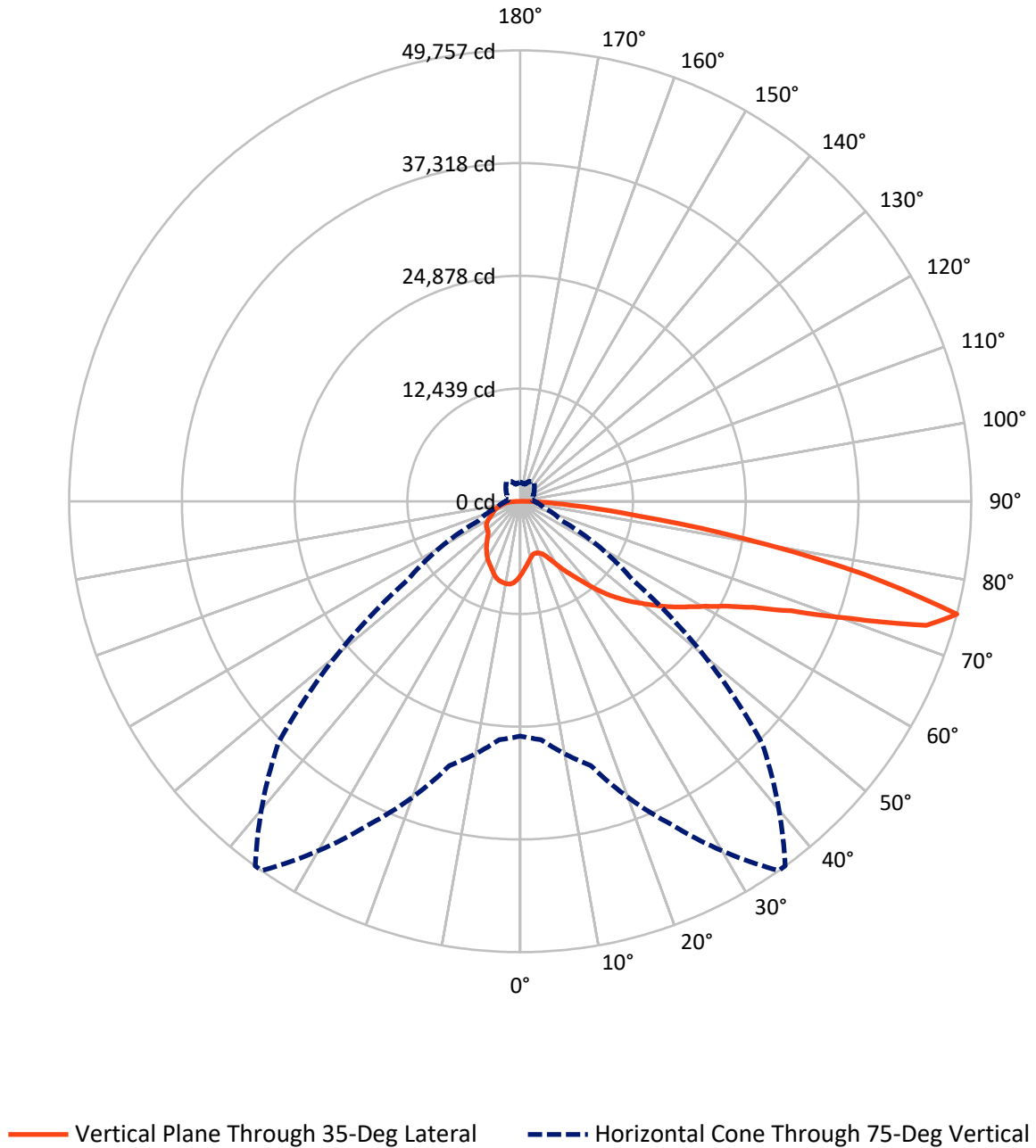
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14527.6	0.0	14527.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	46519.4	0.0	46519.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	61047.0	0.0	61047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	770.2	1.3
10°-20°	2221.6	3.6
20°-30°	3730.7	6.1
30°-40°	5798.0	9.5
40°-50°	8605.8	14.1
50°-60°	11880.8	19.5
60°-70°	14414.2	23.6
70°-80°	11912.2	19.5
80°-90°	1713.3	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°	61047.0	100.0
0°-180°	61047.0	100.0

Coefficient of Utilization



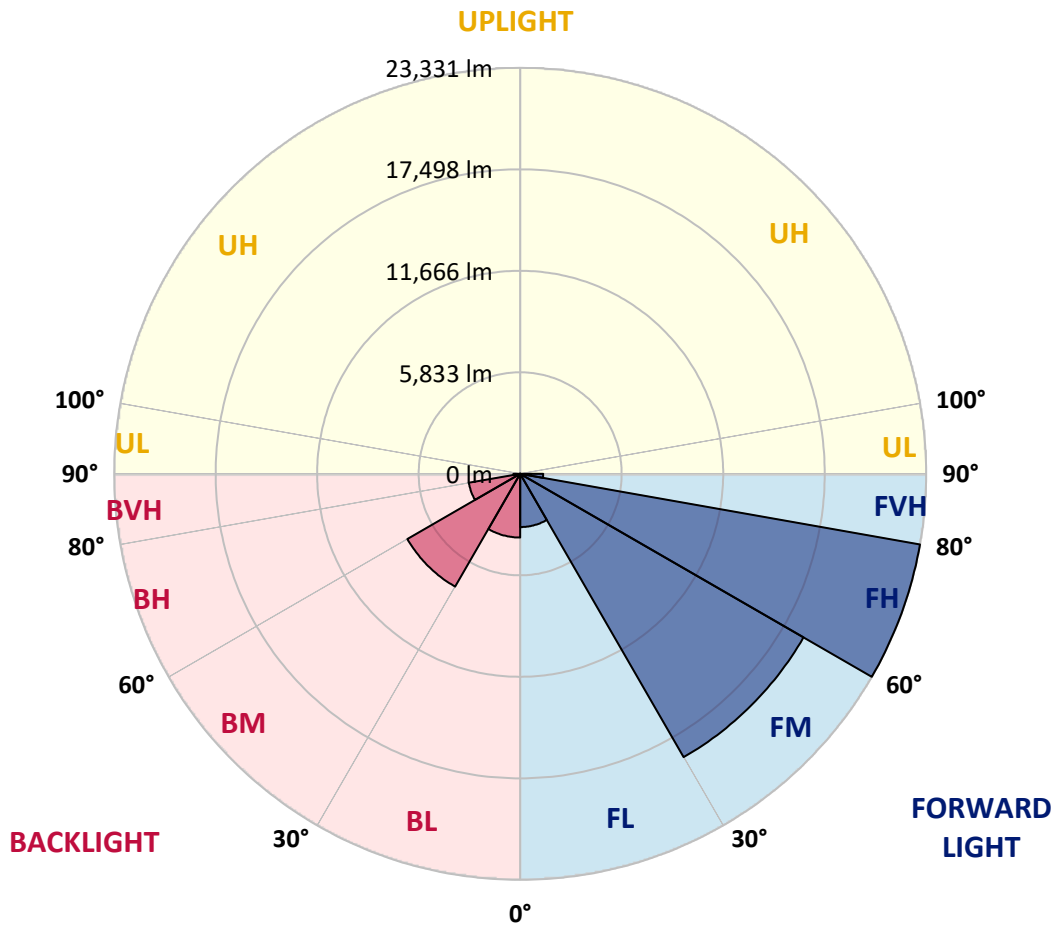
REPORT NUMBER: P885471
 CATALOG NUMBER: NAV-SB6D-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3061.4	5.0			
FM (30°-60°)	18799.2	30.8			
FH (60°-80°)	23331.3	38.2			G5
FVH (80°-90°)	1327.5	2.2			G5
BL (0°-30°)	3661.2	6.0	B4/5000		
BM (30°-60°)	7485.5	12.3	B4/8500		
BH (60°-80°)	2995.2	4.9	B4/5000		G4/5000
BVH (80°-90°)	385.8	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°	8134.9	8134.9	8134.9	8134.9	8134.9	8134.9	8134.9	8134.9	8134.9	8134.9	8134.9
2.5°	7501.3	7547.5	7567.3	7557.4	7606.9	7600.3	7669.6	7755.4	7874.2	7989.7	8158.0
5°	6923.8	6973.3	7016.2	7055.8	7151.5	7181.2	7290.1	7455.1	7672.9	7894.0	8171.2
7.5°	6385.8	6428.7	6494.7	6567.3	6729.1	6758.8	6940.3	7197.7	7501.3	7824.7	8207.5
10°	5946.9	5989.8	6059.1	6141.6	6342.9	6379.2	6610.2	6953.5	7349.5	7758.7	8247.1
12.5°	5758.8	5772.0	5811.6	5894.1	6069.0	6092.1	6346.2	6739.0	7201.0	7709.2	8306.5
15°	5748.9	5775.3	5778.6	5821.5	5966.7	5976.6	6210.9	6600.3	7108.6	7699.3	8395.6
17.5°	5847.9	5867.7	5838.0	5864.4	5986.5	6003.0	6187.8	6534.3	7078.9	7742.2	8547.4
20°	6111.9	6128.4	6039.3	6003.0	6092.1	6105.3	6286.8	6577.2	7108.6	7831.3	8755.4
22.5°	6672.9	6682.8	6465.0	6316.5	6323.1	6329.7	6488.1	6752.2	7224.1	7993.0	9019.4
25°	7547.5	7540.9	7194.4	6907.3	6742.3	6706.0	6811.6	7036.0	7418.8	8207.5	9359.3
27.5°	8570.5	8521.0	8174.5	7745.5	7385.8	7333.0	7309.9	7405.6	7696.0	8491.3	9775.1
30°	9725.6	9679.4	9306.5	8745.5	8247.1	8161.3	7943.5	7894.0	8108.5	8877.5	10352.6
32.5°	10992.9	10963.2	10517.7	9837.8	9171.2	9072.2	8705.9	8573.8	8742.2	9461.6	11157.9
35°	12055.5	12029.1	11659.5	10959.9	10144.7	10022.6	9649.7	9501.2	9587.0	10210.7	12210.6
37.5°	13015.9	13002.7	12685.9	12134.7	11293.2	11144.7	10725.6	10676.1	10659.6	11197.5	13487.8
40°	13906.9	13873.9	13543.9	13253.5	12629.8	12494.5	12124.8	12081.9	11956.5	12411.9	14933.3
42.5°	14893.7	14807.9	14329.3	14194.0	14025.7	13913.5	13692.4	13699.0	13421.8	13781.5	16464.6
45°	15698.9	15649.4	15157.7	15078.5	15260.0	15213.8	15405.2	15454.7	14916.8	15217.1	18055.2
47.5°	16563.6	16517.4	16101.5	16045.4	16537.2	16550.4	17226.9	17243.4	16375.5	16708.8	19649.2
50°	17629.5	17563.5	17151.0	17220.3	17771.4	17820.9	19058.5	18946.3	17718.6	18223.6	21230.0
52.5°	18332.5	18372.1	18283.0	18395.2	19147.6	19193.8	20860.4	20573.3	19048.6	19718.5	22781.1
55°	18850.6	18929.8	19207.0	19464.4	20599.7	20645.9	22560.0	22121.1	20150.9	21104.6	24239.8
57.5°	19517.2	19405.0	19923.1	20424.8	21979.2	22101.3	24213.4	23612.7	21127.7	22299.3	25239.7
60°	20474.3	20395.1	20797.7	21540.2	23523.6	23718.3	25962.5	24955.9	21843.8	23246.4	25434.4
62.5°	22414.8	22216.8	22279.5	22936.2	25470.7	25728.1	27936.0	26127.5	22200.3	23616.0	24391.6
65°	25315.6	24975.7	24658.9	25114.3	28213.2	28467.3	30163.6	27048.2	22068.3	22899.9	21622.7
67.5°	28968.9	28632.3	28242.9	28671.9	32252.6	32453.9	32912.6	27566.3	21028.7	20141.0	16728.6
70°	31982.0	31856.6	32321.9	34087.5	38704.4	38711.0	36437.2	27137.3	18180.7	14279.8	9679.4
72.5°	31582.7	31506.7	33958.8	39417.3	46836.1	46661.1	39773.7	23890.0	12246.9	6441.9	3626.9
75°	25909.7	26401.4	30199.9	39321.6	49756.7	49733.6	37730.9	15187.4	5065.8	2669.8	1874.5
77.5°	13893.7	14672.6	19606.3	29031.6	38843.0	39427.2	26526.8	5313.3	2174.8	1709.5	1297.0
80°	4531.1	5211.0	7814.8	14781.5	25239.7	25130.8	11369.1	2085.7	1488.4	1211.2	897.6
82.5°	1924.0	2003.2	3491.6	6979.9	12953.2	12751.9	3620.3	1198.0	1046.2	828.3	554.4
85°	752.4	841.5	1541.2	3227.6	5610.3	5488.2	1306.9	594.0	669.9	541.2	330.0
87.5°	247.5	300.3	551.1	1105.6	1745.8	1683.1	320.1	204.6	290.4	247.5	118.8
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: P885471
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8134.9	8134.9	8134.9	8134.9	8134.9	8134.9	8134.9	8134.9	8134.9	8134.9	8134.9
2.5°	8204.2	8257.0	8319.7	8412.1	8491.3	8557.3	8626.7	8669.6	8686.1	8735.6	8732.3
5°	8263.6	8379.1	8534.2	8686.1	8834.6	8923.7	9002.9	9042.5	9078.8	9105.2	9111.8
7.5°	8362.6	8511.1	8755.4	8953.4	9078.8	9151.4	9204.2	9191.0	9204.2	9210.8	9220.7
10°	8448.4	8656.4	8946.8	9134.9	9230.6	9233.9	9220.7	9174.5	9151.4	9154.7	9161.3
12.5°	8550.7	8781.8	9095.3	9253.7	9280.1	9207.5	9151.4	9072.2	9042.5	9029.3	9022.7
15°	8689.4	8953.4	9257.0	9316.4	9250.4	9158.0	9062.3	8933.6	8867.6	8814.8	8831.3
17.5°	8857.7	9148.1	9382.4	9339.5	9197.6	9045.8	8890.7	8696.0	8560.6	8504.5	8507.8
20°	9092.0	9352.7	9478.1	9290.0	9075.5	8844.5	8580.4	8342.8	8217.4	8161.3	8154.7
22.5°	9375.8	9626.6	9570.5	9204.2	8900.6	8530.9	8200.9	8026.0	7963.3	7923.7	7930.3
25°	9715.7	9930.2	9636.5	9078.8	8613.5	8115.1	7861.0	7804.9	7775.2	7745.5	7745.5
27.5°	10157.9	10273.4	9686.0	8894.0	8164.6	7672.9	7580.5	7590.4	7580.5	7531.0	7540.9
30°	10742.1	10719.0	9732.2	8593.6	7649.8	7273.6	7280.2	7323.1	7329.7	7296.7	7313.2
32.5°	11511.0	11276.7	9755.3	8204.2	7158.1	6923.8	6930.4	6976.6	7009.6	6953.5	6979.9
35°	12441.7	11926.8	9719.0	7715.8	6778.6	6590.4	6540.9	6554.1	6564.0	6511.2	6547.5
37.5°	13527.4	12656.2	9557.3	7174.6	6465.0	6263.7	6158.1	6069.0	6016.2	5966.7	5999.7
40°	14718.8	13451.5	9260.3	6646.5	6115.2	5917.2	5758.8	5590.5	5412.3	5346.3	5376.0
42.5°	15966.2	14269.9	8900.6	6141.6	5712.6	5550.9	5382.6	5138.4	4871.1	4735.7	4752.2
45°	17259.9	15108.2	8547.4	5643.3	5300.1	5230.8	5036.1	4742.3	4451.9	4280.3	4267.1
47.5°	18527.2	15900.2	8029.3	5141.7	4914.0	4989.9	4838.1	4567.4	4244.0	3973.4	3943.7
50°	19738.3	16642.8	7181.2	4633.4	4600.4	4917.3	4772.0	4382.6	4013.0	3666.5	3636.8
52.5°	20939.6	17243.4	6095.4	4171.4	4432.1	4897.5	4686.2	4257.2	3805.1	3442.1	3402.5
55°	21959.3	17553.6	5049.3	3775.4	4187.9	4729.1	4583.9	4108.7	3511.4	3125.3	3092.3
57.5°	22540.2	17302.8	4178.0	3386.0	3851.3	4451.9	4409.0	3791.9	3161.6	2864.5	2824.9
60°	22289.4	16286.4	3465.2	3046.1	3531.2	4151.6	4105.4	3478.4	2894.3	2613.7	2574.1
62.5°	20906.6	14349.2	2900.9	2749.0	3240.8	3844.7	3801.8	3237.5	2689.6	2419.0	2376.1
65°	18121.2	11672.7	2461.9	2501.5	2947.1	3475.1	3537.8	3036.2	2527.9	2263.9	2221.0
67.5°	13821.1	8455.0	2118.7	2287.0	2659.9	3112.1	3293.6	2891.0	2392.6	2141.8	2102.2
70°	7877.5	4801.8	1828.3	2079.1	2405.8	2775.4	3105.5	2775.4	2247.4	2039.5	2013.1
72.5°	2986.7	2204.5	1580.8	1871.2	2161.6	2491.6	2897.6	2593.9	2079.1	1924.0	1897.6
75°	1594.0	1343.2	1330.0	1627.0	1881.1	2214.4	2636.8	2415.7	1953.7	2032.9	2098.9
77.5°	1085.8	950.4	1112.2	1392.7	1574.2	1907.5	2359.6	2145.1	1693.0	1686.4	1554.4
80°	752.4	673.2	904.2	1122.1	1217.8	1603.9	2059.3	1841.5	1379.5	1287.1	1231.0
82.5°	452.1	438.9	676.5	838.2	861.3	1237.6	1706.2	1544.5	1128.7	983.5	990.1
85°	247.5	260.7	432.3	491.7	501.6	864.6	1336.6	1194.7	867.9	729.3	735.9
87.5°	69.3	89.1	158.4	194.7	240.9	448.8	795.3	709.5	435.6	303.6	303.6
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)