

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: P971319

Luminaire Tested: **NAV-SB6D-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51794.3 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

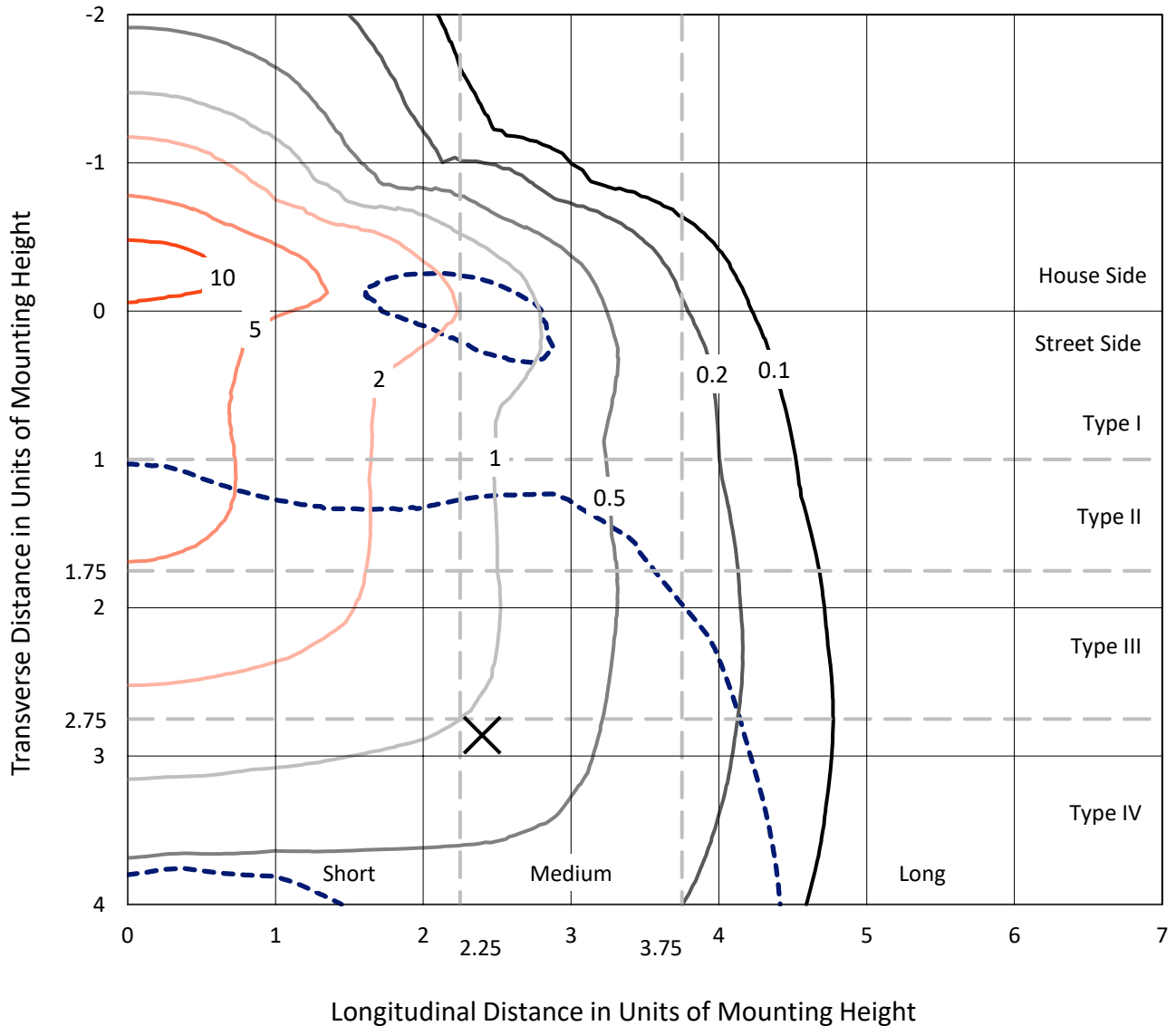
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P971319
 CATALOG NUMBER: NAV-SB6D-722-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

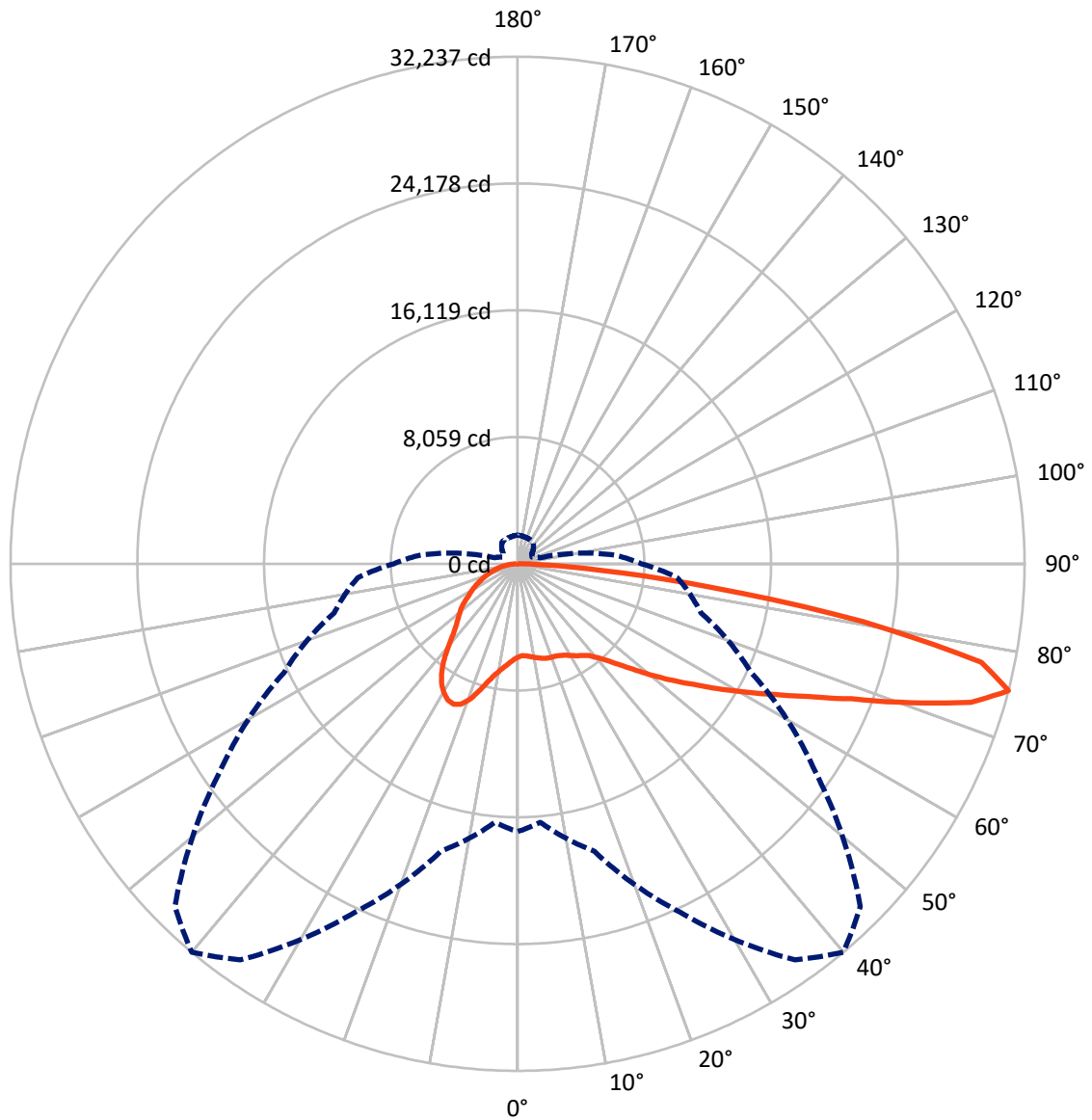
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P971319
CATALOG NUMBER: NAV-SB6D-722-U-SL4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P971319
 CATALOG NUMBER: NAV-SB6D-722-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16047.6	0.0	16047.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	35746.7	0.0	35746.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	51794.3	0.0	51794.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.2	1.1
10°-20°	1984.9	3.8
20°-30°	3624.3	7.0
30°-40°	5140.3	9.9
40°-50°	6941.0	13.4
50°-60°	9337.5	18.0
60°-70°	11851.4	22.9
70°-80°	10755.8	20.8
80°-90°	1567.9	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°	51794.3	100.0
0°-180°	51794.3	100.0

Coefficient of Utilization

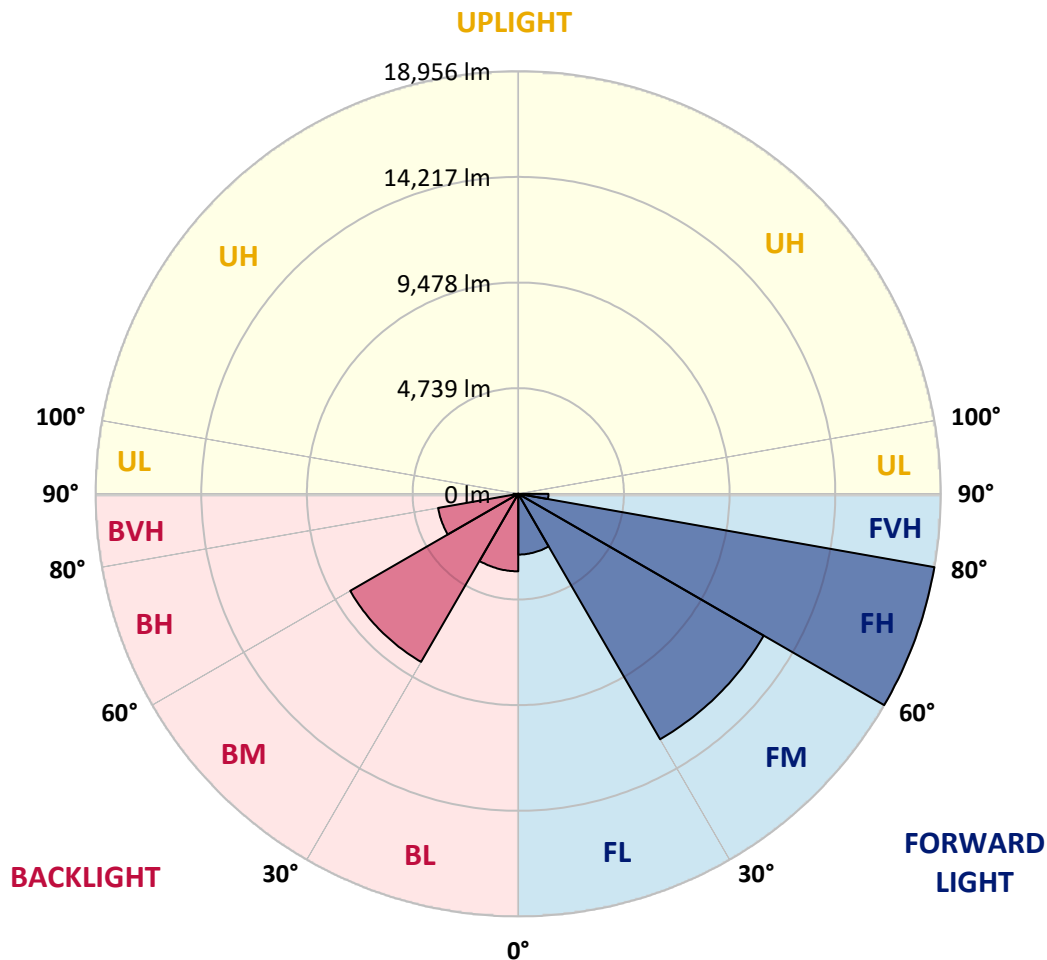


REPORT NUMBER: P971319
 CATALOG NUMBER: NAV-SB6D-722-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2724.4	5.3			
FM (30°-60°)	12714.3	24.5			
FH (60°-80°)	18955.9	36.6			G5
FVH (80°-90°)	1352.0	2.6			G5
BL (0°-30°)	3476.1	6.7	B4/5000		
BM (30°-60°)	8704.4	16.8	B5		
BH (60°-80°)	3651.3	7.0	B4/5000		G4/5000
BVH (80°-90°)	215.9	0.4			G2/225
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: P971319
 CATALOG NUMBER: NAV-SB6D-722-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5922.8	5922.8	5922.8	5922.8	5922.8	5922.8	5922.8	5922.8	5922.8	5922.8	5922.8
2.5°	5832.0	5865.0	5856.8	5845.8	5845.8	5848.5	5845.8	5865.0	5884.3	5903.5	5933.7
5°	5892.5	5925.5	5909.0	5895.3	5884.3	5881.6	5873.2	5870.6	5881.6	5906.3	5947.5
7.5°	6010.7	6043.6	6018.9	5994.2	5972.2	5961.2	5950.2	5933.7	5925.5	5939.3	5996.9
10°	6142.5	6175.5	6145.3	6101.3	6065.6	6051.9	6040.8	6024.4	6013.4	6021.7	6084.8
12.5°	6274.3	6307.3	6266.1	6205.7	6159.0	6150.7	6137.0	6131.5	6128.8	6126.0	6189.3
15°	6397.9	6425.4	6373.2	6301.8	6252.4	6238.7	6224.9	6233.1	6246.9	6263.4	6334.8
17.5°	6494.1	6521.6	6444.7	6351.3	6304.6	6299.1	6290.8	6318.3	6356.7	6397.9	6485.9
20°	6582.0	6609.5	6510.6	6384.2	6329.3	6329.3	6332.0	6389.7	6444.7	6505.2	6626.0
22.5°	6705.7	6727.7	6606.7	6433.7	6354.1	6359.5	6381.5	6439.2	6507.8	6590.3	6757.8
25°	6889.7	6906.2	6757.8	6527.1	6436.5	6452.9	6472.2	6499.6	6565.5	6661.7	6887.0
27.5°	7186.4	7200.1	7005.1	6691.9	6554.6	6582.0	6609.5	6590.3	6620.5	6702.9	6991.3
30°	7604.0	7612.2	7364.9	6950.1	6755.2	6768.9	6774.3	6694.7	6637.0	6702.9	7065.5
32.5°	8098.4	8095.7	7801.8	7263.4	6983.1	6969.4	6922.6	6766.1	6631.5	6689.2	7131.4
35°	8864.9	8834.7	8455.5	7702.9	7241.3	7156.2	7046.3	6845.8	6659.0	6675.4	7189.1
37.5°	10134.1	10040.7	9516.0	8422.6	7625.9	7408.9	7246.9	6974.9	6719.4	6670.0	7257.8
40°	11565.3	11447.2	10870.2	9408.8	8202.9	7854.0	7593.0	7158.9	6818.3	6694.7	7359.5
42.5°	13263.0	13095.4	12474.6	10570.8	8933.6	8428.1	8035.3	7392.4	6963.8	6774.3	7496.8
45°	15348.0	15125.5	14246.5	11881.2	9853.8	9180.8	8656.1	7746.8	7186.4	6928.2	7702.9
47.5°	17455.0	17510.0	16260.1	13381.1	10958.2	10109.4	9433.5	8279.7	7510.6	7175.4	8035.3
50°	19693.9	19732.4	18262.7	15043.1	12210.8	11158.8	10307.1	8875.9	7961.1	7527.1	8532.5
52.5°	21441.2	21446.6	20081.3	16782.0	13515.8	12312.5	11249.4	9557.2	8483.0	7994.1	9194.6
55°	22534.4	22520.7	21356.0	18427.6	15015.6	13524.0	12293.2	10331.8	9120.3	8543.5	10027.0
57.5°	23328.4	23287.2	22235.0	19842.3	16614.4	14955.2	13474.5	11210.9	9873.1	9197.3	11123.0
60°	23630.6	23605.9	22831.2	21064.8	18295.6	16537.6	14837.1	12194.3	10727.4	9969.3	12532.3
62.5°	23746.0	23792.6	23416.2	22248.8	20095.0	18290.2	16334.3	13370.1	11688.9	10842.8	14018.4
65°	24152.5	24237.7	24160.7	23798.1	22127.9	20342.3	18320.4	14768.4	12738.3	11779.6	15570.6
67.5°	24957.4	25042.6	25075.5	25652.4	24611.3	22899.8	20798.3	16510.1	13966.2	12752.0	16738.0
70°	24938.1	24913.4	25495.8	27127.5	27720.9	26440.8	24138.7	18652.8	15430.5	13559.7	16886.5
72.5°	22699.2	22501.5	23877.8	27111.1	30308.7	30138.4	28218.1	21416.4	16694.1	13658.5	14653.0
75°	17029.2	16501.8	18933.0	24432.7	30740.1	32237.2	30811.5	23130.6	16394.7	12068.0	10197.2
77.5°	7282.5	6752.4	9617.6	18086.9	27512.2	30135.7	28432.5	20180.2	13087.2	7980.3	5007.9
80°	1906.5	1903.7	2906.4	8200.1	18710.5	22254.3	19523.6	13032.3	7477.6	2851.4	1381.8
82.5°	788.4	769.2	1068.7	3189.4	9142.4	12488.3	10191.8	5812.9	2700.4	771.9	458.8
85°	294.0	291.2	519.2	1101.6	3225.1	5150.8	3727.8	1486.1	673.0	376.4	206.0
87.5°	82.4	79.6	112.6	381.8	785.7	1192.3	637.3	244.5	189.5	148.3	60.5
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: P971319
 CATALOG NUMBER: NAV-SB6D-722-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5922.8	5922.8	5922.8	5922.8	5922.8	5922.8	5922.8	5922.8	5922.8	5922.8	5922.8
2.5°	5941.9	5955.7	5980.5	5999.6	6024.4	6051.9	6090.3	6115.0	6139.7	6156.3	6145.3
5°	5966.7	5996.9	6060.1	6123.2	6197.5	6266.1	6345.8	6403.5	6450.2	6464.0	6469.4
7.5°	6021.7	6071.1	6178.2	6285.4	6403.5	6516.1	6631.5	6730.4	6810.1	6840.2	6843.0
10°	6117.8	6183.7	6334.8	6485.9	6642.5	6815.5	6963.8	7106.7	7219.4	7266.1	7268.8
12.5°	6238.7	6321.1	6518.9	6727.7	6944.7	7183.7	7376.0	7551.8	7691.9	7755.0	7755.0
15°	6395.3	6502.4	6755.2	7035.3	7354.0	7686.4	7930.8	8125.9	8282.5	8359.4	8354.0
17.5°	6565.5	6708.4	7027.1	7450.1	7906.1	8343.0	8628.7	8771.4	8933.6	9007.7	9005.0
20°	6730.4	6906.2	7362.3	7977.6	8584.7	9048.9	9279.7	9318.2	9329.1	9337.3	9359.4
22.5°	6900.7	7137.0	7782.5	8642.4	9293.5	9614.8	9647.8	9483.0	9252.3	9145.0	9175.3
25°	7087.5	7400.7	8331.9	9375.9	9903.2	9941.8	9689.0	9287.9	8851.2	8650.6	8680.8
27.5°	7268.8	7705.6	8991.3	10076.4	10342.9	10004.9	9461.1	8892.4	8364.9	8153.4	8178.1
30°	7450.1	8054.4	9719.3	10689.0	10543.4	9848.3	9101.2	8466.6	7936.4	7713.8	7738.5
32.5°	7634.2	8461.1	10557.1	11131.2	10507.7	9516.0	8653.4	7988.5	7521.6	7288.1	7318.3
35°	7843.0	8961.1	11351.1	11373.0	10268.7	9027.0	8062.8	7417.2	7010.6	6823.8	6865.0
37.5°	8114.9	9595.6	12051.5	11433.5	9851.1	8310.0	7329.3	6741.4	6406.2	6321.1	6381.5
40°	8452.9	10359.3	12587.2	11337.3	9233.0	7439.1	6527.1	6057.3	5867.8	5887.0	5953.0
42.5°	8892.4	11213.7	12963.6	11090.0	8373.1	6540.8	5823.8	5615.1	5705.8	5782.6	5854.1
45°	9463.7	12100.9	13197.1	10669.7	7400.7	5779.9	5409.0	5458.5	5527.2	5535.4	5590.3
47.5°	10194.4	12999.3	13350.9	10035.2	6409.0	5244.2	5145.3	5156.3	5142.5	5084.9	5128.8
50°	11106.5	13872.9	13488.3	9194.6	5565.6	4909.0	4777.2	4738.8	4549.2	4362.4	4387.1
52.5°	12144.9	14675.0	13546.0	8150.6	4909.0	4628.9	4414.6	4172.9	3818.4	3760.8	3780.0
55°	13298.7	15416.7	13397.6	6867.7	4356.9	4269.0	3944.8	3653.6	3615.2	3565.8	3574.0
57.5°	14677.8	16216.1	13095.4	5436.5	3791.0	3848.7	3532.8	3565.8	3497.1	3420.1	3406.4
60°	16185.9	17043.0	12565.3	4131.7	3205.9	3324.0	3425.7	3422.9	3403.6	3340.5	3318.5
62.5°	17543.0	17586.9	11521.3	3164.7	2692.2	2917.5	3194.9	3192.2	3175.7	3139.9	3126.1
65°	18350.6	17504.5	9779.6	2491.6	2269.1	2582.3	2881.7	2903.7	2906.4	2903.7	2903.7
67.5°	18207.8	16540.3	7389.7	1983.4	1920.2	2241.7	2571.3	2601.6	2623.5	2629.0	2634.5
70°	16592.5	14422.3	4818.4	1582.3	1609.8	1942.2	2277.3	2307.6	2326.8	2348.8	2359.8
72.5°	12933.3	10603.8	2758.1	1280.1	1337.8	1684.0	1986.1	2021.9	2032.9	2074.1	2090.6
75°	7881.4	6235.9	1488.9	1008.2	1098.8	1439.5	1697.7	1738.9	1758.2	1807.6	1813.1
77.5°	3747.1	2700.4	848.8	785.7	884.6	1175.8	1434.0	1480.7	1428.4	1456.0	1434.0
80°	1266.4	1002.7	535.7	598.9	675.8	917.6	1148.3	1194.9	1085.1	1079.6	1068.7
82.5°	442.3	406.6	340.6	398.3	436.8	656.5	868.1	928.5	807.6	804.9	766.4
85°	173.0	164.8	189.5	217.0	261.0	403.8	571.4	601.6	497.2	401.1	395.5
87.5°	35.7	38.4	46.7	49.4	79.6	140.1	206.0	252.8	200.5	170.4	156.6
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)