

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: P885459

Luminaire Tested: **NAV-SB6D-730-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885459
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-730-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60841 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

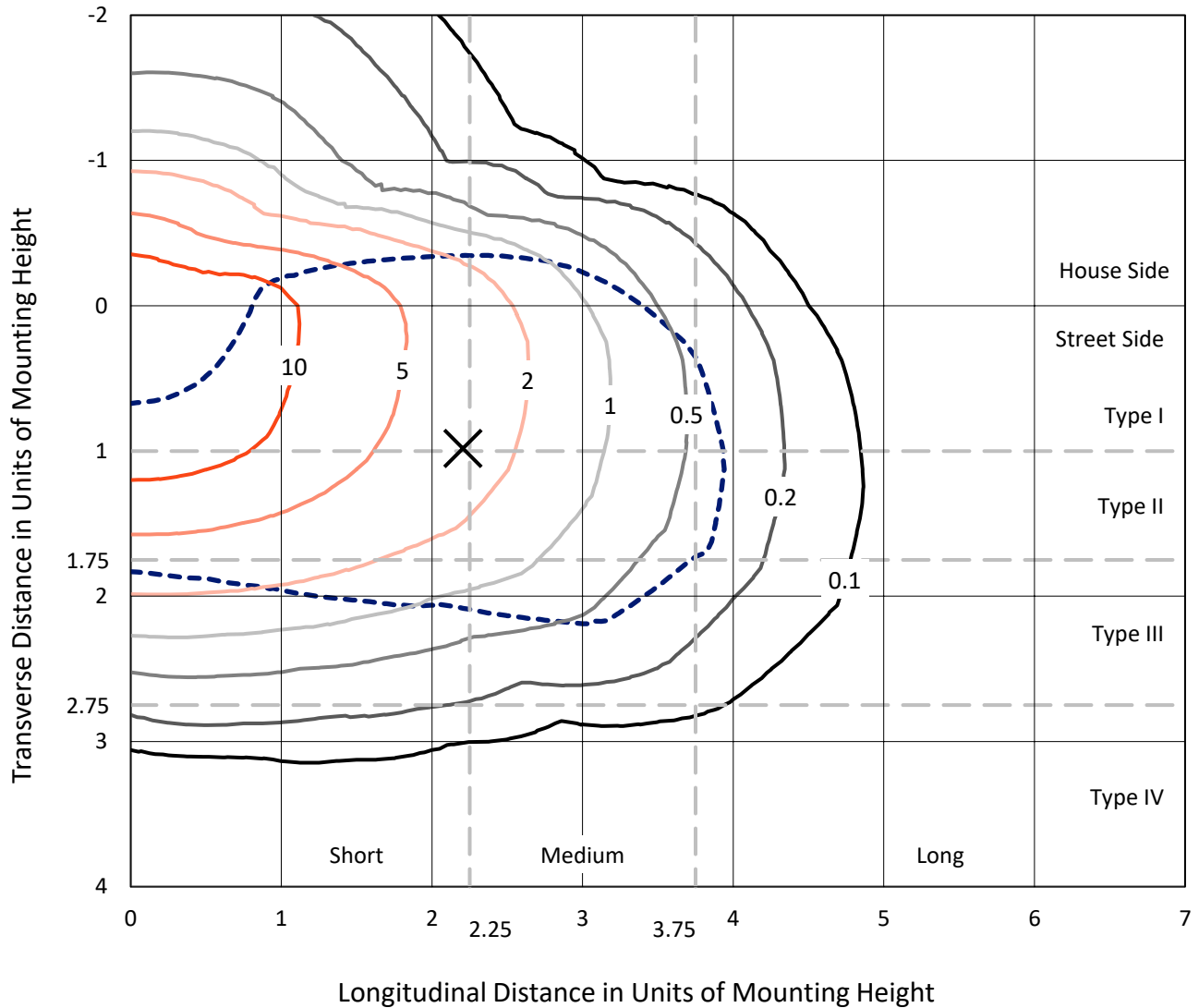
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P885459
 CATALOG NUMBER: NAV-SB6D-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

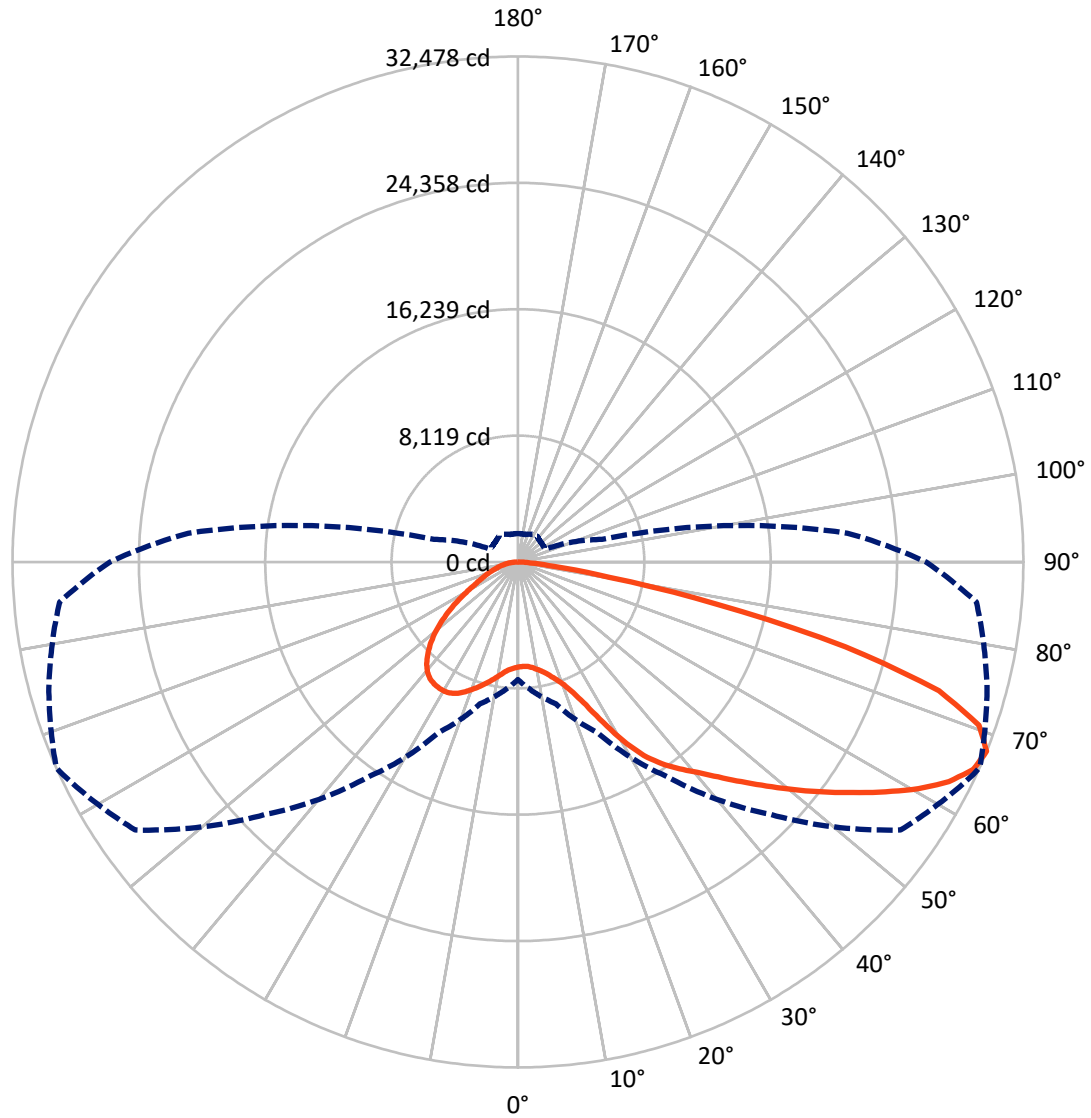
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type III - Short - N/A

REPORT NUMBER: P885459
CATALOG NUMBER: NAV-SB6D-730-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P885459
 CATALOG NUMBER: NAV-SB6D-730-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15127.9	0.0	15127.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	45713.1	0.0	45713.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	60841.0	0.0	60841.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.0	1.1
10°-20°	2210.4	3.6
20°-30°	4260.5	7.0
30°-40°	7470.2	12.3
40°-50°	11105.7	18.3
50°-60°	14077.6	23.1
60°-70°	13774.6	22.6
70°-80°	6570.6	10.8
80°-90°	702.2	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°	60841.0	100.0
0°-180°	60841.0	100.0

Coefficient of Utilization



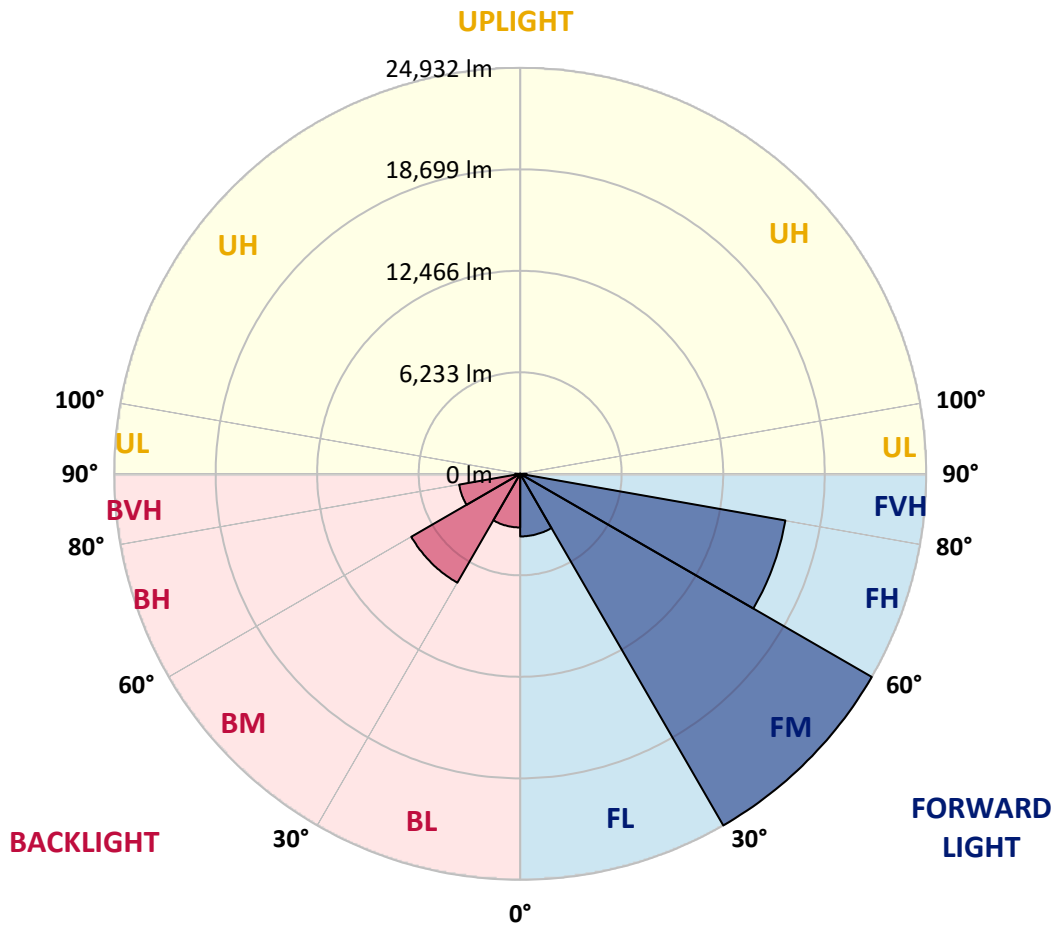
REPORT NUMBER: P885459
 CATALOG NUMBER: NAV-SB6D-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3844.6	6.3			
FM (30°-60°)	24932.1	41.0			
FH (60°-80°)	16538.3	27.2			G5
FVH (80°-90°)	398.1	0.7			G3/500
BL (0°-30°)	3295.4	5.4	B4/5000		
BM (30°-60°)	7721.5	12.7	B4/8500		
BH (60°-80°)	3807.0	6.3	B4/5000		G4/5000
BVH (80°-90°)	304.1	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: P885459
 CATALOG NUMBER: NAV-SB6D-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6748.1	6748.1	6748.1	6748.1	6748.1	6748.1	6748.1	6748.1	6748.1	6748.1	6748.1
2.5°	6677.7	6716.1	6706.5	6690.5	6687.3	6693.7	6703.3	6712.9	6709.7	6725.7	6751.3
5°	6658.6	6696.9	6693.7	6693.7	6706.5	6732.1	6748.1	6764.1	6748.1	6767.3	6802.4
7.5°	6671.4	6700.1	6712.9	6725.7	6757.7	6805.6	6844.0	6879.1	6860.0	6882.3	6927.1
10°	6834.4	6856.8	6869.5	6869.5	6891.9	6946.3	6984.6	7048.6	7032.6	7067.7	7125.3
12.5°	7131.7	7154.0	7154.0	7141.3	7157.2	7192.4	7205.2	7275.5	7246.7	7304.3	7361.8
15°	7496.1	7540.8	7505.7	7483.3	7489.7	7524.9	7521.7	7576.0	7547.2	7595.2	7646.3
17.5°	7898.9	7956.4	7898.9	7895.7	7882.9	7921.2	7924.4	7972.4	7921.2	7956.4	7991.6
20°	8375.2	8455.1	8407.1	8423.1	8394.3	8410.3	8426.3	8496.6	8416.7	8442.3	8432.7
22.5°	9046.4	9142.3	9091.2	9151.9	9132.8	9120.0	9116.8	9241.4	9116.8	9126.4	9033.7
25°	10024.6	10139.7	10050.2	10133.3	10133.3	10174.9	10222.8	10382.6	10174.9	10114.1	9874.4
27.5°	11469.5	11584.6	11408.7	11459.9	11443.9	11546.2	11495.1	11891.4	11667.7	11568.6	11085.9
30°	13208.4	13413.0	13080.6	13067.8	13051.8	13214.8	13288.4	13550.5	13323.5	13224.4	12642.6
32.5°	15088.1	15302.2	14905.9	14790.8	14730.0	14829.1	14768.4	14979.4	14822.7	14669.3	13950.1
35°	17076.4	17287.3	16910.1	16686.4	16443.4	16235.6	16018.3	16072.6	15925.6	15692.2	14947.4
37.5°	18956.0	19342.8	18943.2	18703.4	18255.9	17849.9	17242.6	16990.1	16852.6	16638.4	15887.2
40°	20870.8	21091.3	20787.6	20583.1	20097.2	19461.0	18489.3	17955.4	17770.0	17562.2	16926.1
42.5°	22280.5	22491.4	22328.4	22187.8	21807.4	21068.9	19812.7	19144.6	18876.1	18642.7	18102.5
45°	23399.3	23555.9	23453.6	23504.8	23341.7	22625.7	21184.0	20420.0	20141.9	19857.4	19432.3
47.5°	23850.0	24016.2	24179.3	24482.9	24761.0	24233.6	22657.7	21801.0	21506.9	21216.0	20797.2
50°	23798.9	23968.3	24441.4	25087.1	25950.2	25774.4	24211.2	23271.4	22999.7	22667.3	22280.5
52.5°	23389.7	23581.5	24188.8	25262.9	26637.5	26928.4	25793.6	24789.8	24534.1	24137.7	23750.9
55°	22315.6	22430.7	23341.7	24863.3	26800.5	27733.9	27343.9	26407.3	26151.6	25598.6	25176.6
57.5°	20324.1	20490.4	21817.0	23786.1	26391.3	28280.5	28705.7	28107.9	27861.8	27065.8	26624.7
60°	17725.3	17990.6	19509.0	21976.8	25349.2	28277.3	29942.8	29779.7	29575.2	28510.7	28050.4
62.5°	14784.4	15091.3	16552.1	19419.5	23527.1	27475.0	30716.3	31179.9	31074.4	29843.7	29255.5
65°	11354.4	11565.4	13019.8	16111.0	20691.7	25752.0	30805.9	32135.7	32154.8	30857.0	29885.2
67.5°	7560.0	8167.4	9430.0	12089.6	16894.2	22935.8	30019.5	32292.3	32477.7	31205.4	29568.8
70°	3688.9	4488.1	5725.2	7857.3	12089.6	18617.1	27964.1	31007.2	31419.6	30188.9	27682.8
72.5°	1531.2	1790.1	2464.6	3877.5	6939.9	12562.7	23834.0	27522.9	28286.9	26749.3	23274.6
75°	1032.5	1118.8	1409.7	1988.3	3161.5	6195.1	17188.2	20522.3	21753.0	20202.7	16513.8
77.5°	796.0	850.3	1026.1	1390.5	1879.6	2343.1	9199.9	12367.7	13003.9	12038.5	8592.5
80°	626.5	668.1	767.2	1013.3	1333.0	1253.1	3135.9	5603.7	5971.3	5009.1	2761.9
82.5°	543.4	559.4	549.8	687.3	885.5	732.0	1029.3	2068.2	2282.4	1655.9	901.4
85°	393.2	437.9	457.1	425.2	469.9	370.8	422.0	732.0	805.5	719.2	508.3
87.5°	159.8	236.6	290.9	274.9	172.6	105.5	131.1	214.2	246.1	268.5	166.2
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: P885459
 CATALOG NUMBER: NAV-SB6D-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6748.1	6748.1	6748.1	6748.1	6748.1	6748.1	6748.1	6748.1	6748.1	6748.1	6748.1
2.5°	6754.5	6776.8	6792.8	6812.0	6824.8	6844.0	6882.3	6904.7	6907.9	6923.9	6920.7
5°	6815.2	6847.2	6882.3	6933.5	6991.0	7039.0	7112.5	7163.6	7182.8	7198.8	7195.6
7.5°	6946.3	6991.0	7054.9	7144.5	7227.6	7291.5	7381.0	7441.7	7502.5	7524.9	7528.0
10°	7141.3	7205.2	7297.9	7419.4	7508.9	7592.0	7684.7	7735.8	7796.6	7822.1	7834.9
12.5°	7384.2	7451.3	7572.8	7742.2	7825.3	7882.9	7914.8	7902.1	7914.8	7937.2	7943.6
15°	7662.3	7735.8	7873.3	8055.5	8113.0	8061.9	7991.6	7927.6	7918.0	7924.4	7946.8
17.5°	7991.6	8045.9	8205.7	8359.2	8317.6	8106.6	7953.2	7850.9	7799.8	7783.8	7806.2
20°	8451.9	8451.9	8582.9	8678.8	8400.7	8042.7	7803.0	7636.7	7531.2	7486.5	7476.9
22.5°	9011.3	8960.1	9043.2	8976.1	8384.7	7863.7	7531.2	7243.5	7083.7	7019.8	7010.2
25°	9720.9	9660.2	9637.8	9222.3	8269.7	7579.2	7039.0	6690.5	6549.9	6514.7	6521.1
27.5°	10791.8	10638.4	10347.5	9356.5	8058.7	7131.7	6463.6	6140.7	6060.8	6064.0	6073.6
30°	12217.5	11910.6	11197.8	9378.9	7713.5	6498.7	5875.4	5645.2	5606.9	5622.9	5677.2
32.5°	13537.7	13246.8	12067.3	9276.6	7182.8	5878.6	5348.0	5194.5	5137.0	5156.2	5181.7
35°	14573.4	14493.5	12872.8	9132.8	6530.7	5296.8	4874.8	4743.8	4631.9	4606.3	4625.5
37.5°	15551.6	15519.6	13477.0	8931.4	5885.0	4884.4	4494.5	4321.8	4158.8	4069.3	4072.5
40°	16625.6	16593.7	13873.3	8621.3	5312.8	4526.4	4152.4	3925.5	3724.1	3561.0	3577.0
42.5°	17834.0	17645.4	14061.9	8177.0	4826.9	4222.7	3874.3	3567.4	3302.1	3151.9	3161.5
45°	19154.2	18729.0	14058.7	7611.2	4417.7	3944.6	3577.0	3142.3	2896.1	2755.5	2749.1
47.5°	20554.3	19764.7	13886.1	6984.6	4021.4	3637.8	3116.7	2784.3	2621.2	2534.9	2515.7
50°	21999.2	20733.3	13592.0	6265.4	3615.4	3289.3	2829.0	2602.1	2477.4	2397.5	2368.7
52.5°	23357.7	21612.4	13237.2	5450.2	3203.0	2950.5	2701.1	2525.3	2394.3	2304.8	2266.4
55°	24620.4	22370.0	12735.3	4615.9	2867.4	2723.5	2640.4	2493.4	2343.1	2237.6	2196.1
57.5°	25742.4	22862.2	11869.1	3832.8	2627.6	2566.9	2576.5	2439.0	2266.4	2176.9	2119.4
60°	26675.8	23223.5	10587.2	3107.1	2432.6	2413.5	2477.4	2336.7	2135.3	2033.1	1988.3
62.5°	27235.2	23217.1	9014.5	2544.5	2266.4	2272.8	2346.3	2208.9	2004.3	1908.4	1879.6
65°	27187.3	22648.1	7288.3	2176.9	2106.6	2113.0	2208.9	2068.2	1895.6	1838.1	1834.9
67.5°	26225.1	21260.7	5590.9	1937.2	1930.8	1959.5	2071.4	1972.3	1828.5	1822.1	1831.7
70°	23619.8	18380.6	4027.7	1745.4	1748.6	1790.1	1937.2	1911.6	1793.3	1806.1	1802.9
72.5°	18940.0	14014.0	2704.3	1544.0	1547.2	1614.3	1809.3	1863.6	1758.1	1927.6	1953.1
75°	12613.9	8739.6	1739.0	1329.8	1333.0	1419.3	1697.4	1770.9	1662.2	1921.2	1937.2
77.5°	6060.8	3928.6	1259.5	1118.8	1118.8	1198.7	1467.2	1585.5	1416.1	1492.8	1368.2
80°	2093.8	1476.8	991.0	901.4	882.3	936.6	1237.1	1374.5	1221.1	1125.2	1054.9
82.5°	824.7	767.2	796.0	700.1	636.1	671.3	962.2	1134.8	898.3	811.9	808.7
85°	473.1	498.7	562.6	463.5	367.6	412.4	706.5	815.1	677.7	597.8	610.6
87.5°	127.9	175.8	258.9	239.7	166.2	175.8	335.6	450.7	390.0	300.5	310.1
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)