

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: P884956

Luminaire Tested: **NAV-SB6A-735-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-735-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19882 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

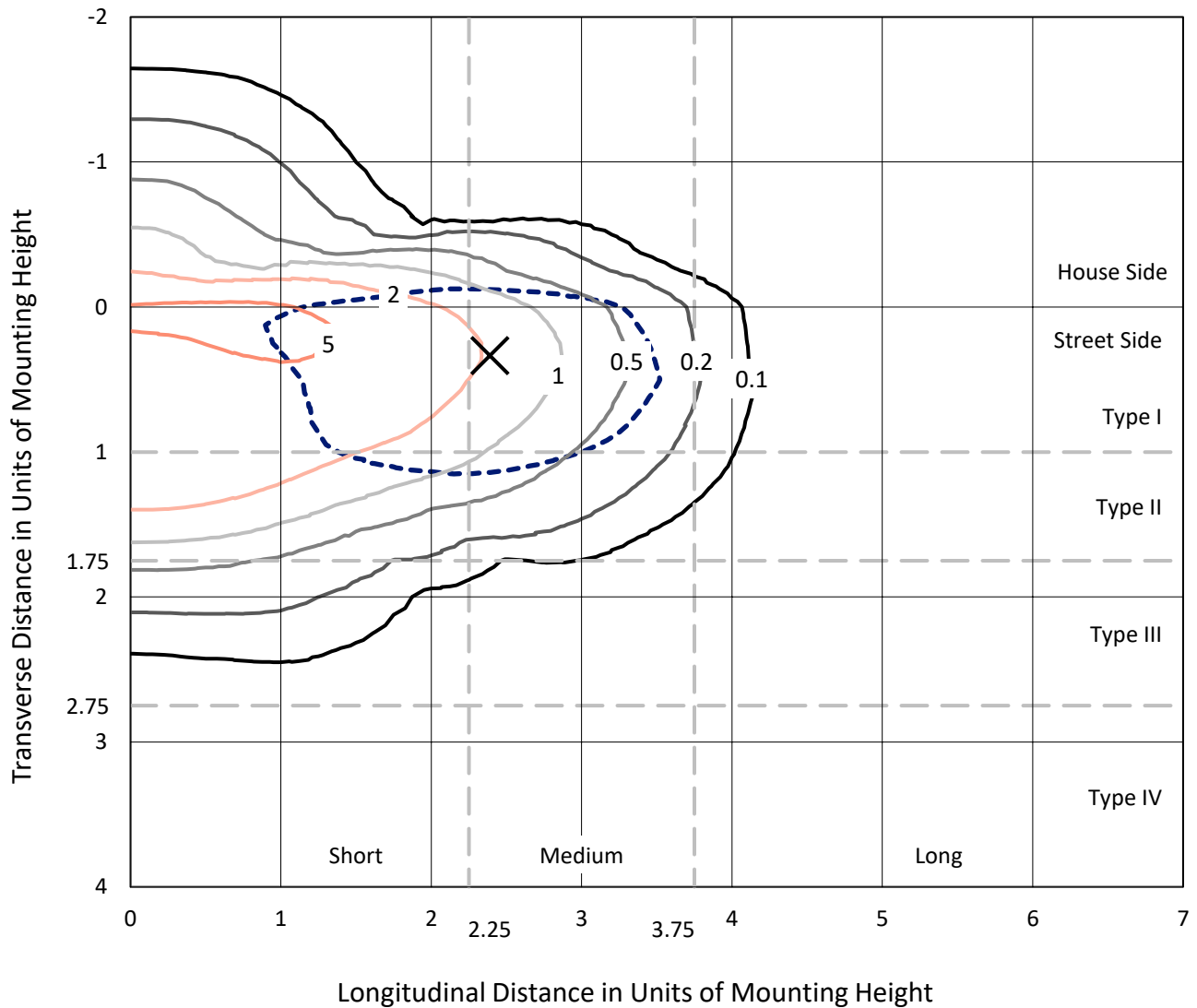
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P884956
 CATALOG NUMBER: NAV-SB6A-735-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

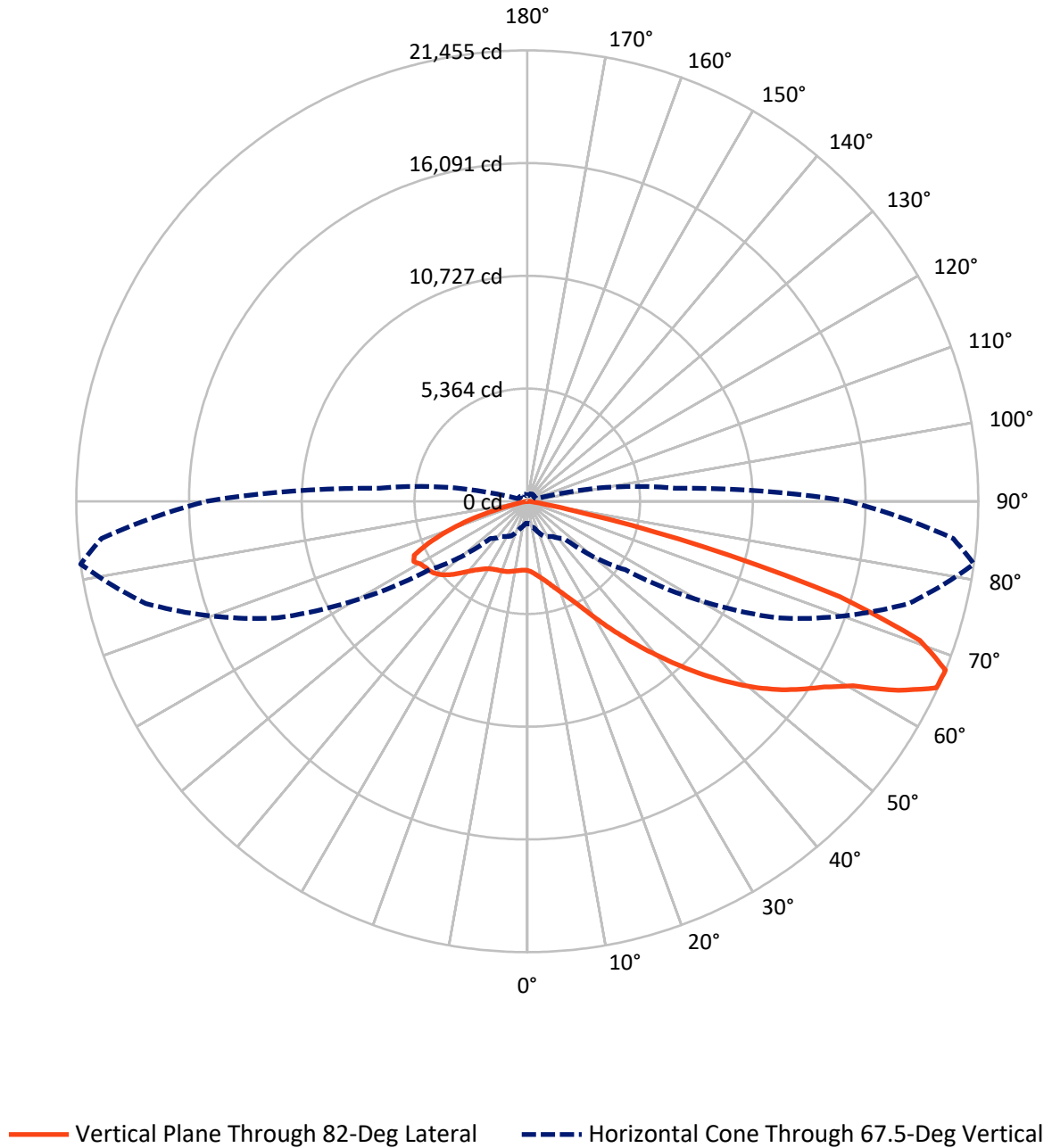
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Medium - N/A

REPORT NUMBER: P884956
CATALOG NUMBER: NAV-SB6A-735-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P884956

CATALOG NUMBER: NAV-SB6A-735-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3601.4	0.0	3601.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16280.6	0.0	16280.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	19882.0	0.0	19882.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.5	1.5
10°-20°	762.6	3.8
20°-30°	1221.4	6.1
30°-40°	2159.8	10.9
40°-50°	3784.1	19.0
50°-60°	5047.0	25.4
60°-70°	4698.5	23.6
70°-80°	1803.3	9.1
80°-90°	112.0	0.6
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°	19882.0	100.0
0°-180°	19882.0	100.0

Coefficient of Utilization



REPORT NUMBER: P884956

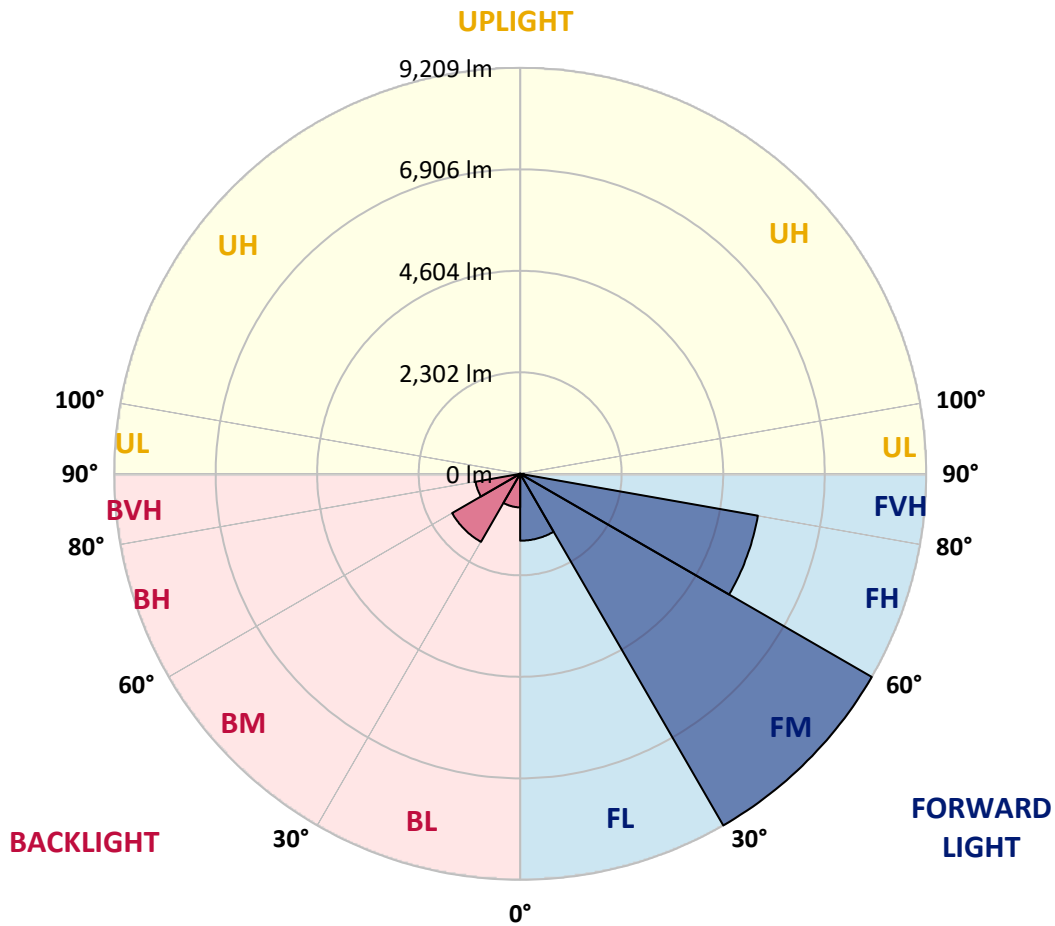
CATALOG NUMBER: NAV-SB6A-735-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1516.8	7.6			
FM (30°-60°)	9208.5	46.3			
FH (60°-80°)	5473.8	27.5			G3/7500
FVH (80°-90°)	81.4	0.4			G1/100
BL (0°-30°)	760.6	3.8	B2/1000		
BM (30°-60°)	1782.3	9.0	B2/2500		
BH (60°-80°)	1027.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	30.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



REPORT NUMBER: P884956

CATALOG NUMBER: NAV-SB6A-735-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3293.8	3293.8	3293.8	3293.8	3293.8	3293.8	3293.8	3293.8	3293.8	3293.8	3293.8
2.5°	3481.3	3501.3	3489.9	3484.2	3474.1	3459.8	3448.4	3412.6	3375.4	3351.0	3342.4
5°	3551.4	3571.5	3570.0	3575.8	3582.9	3587.2	3584.4	3544.3	3491.3	3449.8	3425.5
7.5°	3491.3	3514.2	3532.8	3561.5	3611.6	3664.5	3690.3	3681.7	3627.3	3570.0	3540.0
10°	3321.0	3345.3	3389.7	3457.0	3562.9	3677.4	3773.3	3817.7	3783.3	3720.3	3678.8
12.5°	3008.9	3033.3	3120.6	3266.6	3444.1	3643.0	3826.3	3945.1	3953.7	3890.7	3842.0
15°	2658.2	2682.5	2775.6	2958.8	3229.4	3548.6	3854.9	4079.6	4155.5	4101.1	4042.4
17.5°	2440.6	2462.1	2532.2	2679.7	2961.7	3359.6	3844.9	4222.8	4396.0	4353.1	4282.9
20°	2374.8	2393.4	2426.3	2529.4	2764.1	3163.5	3779.0	4357.3	4655.1	4630.8	4552.0
22.5°	2444.9	2462.1	2472.1	2517.9	2665.4	3034.7	3696.0	4494.8	4955.7	4958.6	4862.6
25°	2606.7	2623.9	2612.4	2641.0	2705.4	2994.6	3664.5	4656.5	5333.6	5365.1	5256.3
27.5°	2872.9	2874.4	2847.2	2845.7	2855.7	3054.7	3697.4	4829.7	5810.3	5869.0	5734.4
30°	3406.9	3385.4	3280.9	3167.8	3116.3	3235.1	3789.1	5034.4	6372.8	6477.3	6308.4
32.5°	4229.9	4198.5	4006.6	3736.1	3464.1	3525.7	3953.7	5267.7	6985.5	7174.4	6968.3
35°	5123.2	5114.6	4914.2	4511.9	4036.7	3939.4	4221.4	5574.1	7654.0	7954.6	7709.8
37.5°	5953.4	5949.1	5834.6	5360.8	4782.5	4516.2	4650.8	5974.9	8369.7	8804.9	8515.7
40°	6712.1	6725.0	6610.5	6186.7	5604.1	5256.3	5234.8	6470.2	9165.6	9731.0	9387.5
42.5°	7367.7	7382.0	7266.1	6952.6	6415.8	6075.1	5952.0	7077.1	9942.9	10725.9	10319.3
45°	7812.9	7901.6	7884.4	7633.9	7248.9	6895.3	6813.7	7838.6	10828.9	11780.9	11304.2
47.5°	7938.8	8020.4	8149.3	8183.6	7948.9	7601.0	7698.4	8756.2	11725.0	12837.3	12294.8
50°	7628.2	7704.1	7971.8	8328.2	8491.4	8384.0	8558.7	9739.6	12642.6	13890.8	13266.7
52.5°	7015.6	7092.9	7430.7	7994.7	8660.3	8998.1	9421.8	10708.7	13531.5	14888.5	14187.1
55°	6129.5	6211.1	6644.8	7283.2	8338.2	9251.5	10141.8	11676.4	14346.0	15786.1	15017.4
57.5°	4924.2	4984.3	5435.2	6328.5	7528.0	8999.5	10672.9	12732.8	15113.3	16667.8	15840.5
60°	3209.3	3262.3	3786.2	4782.5	6185.3	8157.9	10778.8	13910.9	16132.5	17814.4	16949.8
62.5°	2134.3	2170.1	2480.7	3212.2	4355.9	6541.7	10159.0	14851.3	17626.9	19809.9	18852.2
65°	1464.4	1500.2	1810.8	2320.4	2814.2	4327.3	8376.9	14726.8	18981.1	21394.5	20262.2
67.5°	1045.0	1075.0	1338.4	1819.4	2037.0	2513.6	5678.6	13135.0	18786.4	21454.6	20338.1
70°	748.7	765.8	983.4	1417.1	1619.0	1510.2	3157.8	10045.9	16448.8	19811.3	18789.3
72.5°	523.9	529.6	682.8	1079.3	1304.1	1102.2	1503.0	6697.8	12440.8	15549.9	14566.5
75°	355.0	362.2	459.5	791.6	1046.4	841.7	795.9	3591.5	7303.3	8607.3	7715.5
77.5°	217.6	220.4	296.3	541.1	783.0	641.3	512.5	1521.6	2825.7	2774.2	2364.8
80°	123.1	123.1	189.0	336.4	533.9	413.7	359.3	647.0	894.7	785.9	692.8
82.5°	68.7	70.1	137.4	209.0	353.6	244.8	197.5	299.2	386.5	342.1	297.7
85°	28.6	31.5	84.5	98.8	168.9	121.7	80.2	126.0	143.1	127.4	93.0
87.5°	2.9	4.3	25.8	18.6	20.0	24.3	11.5	24.3	20.0	20.0	14.3
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: P884956

CATALOG NUMBER: NAV-SB6A-735-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3293.8	3293.8	3293.8	3293.8	3293.8	3293.8	3293.8	3293.8	3293.8	3293.8	3293.8
2.5°	3315.2	3293.8	3239.4	3176.4	3093.4	3053.3	2998.9	2961.7	2930.2	2933.0	2904.4
5°	3379.7	3325.3	3203.6	3051.9	2862.9	2728.4	2585.2	2486.4	2406.3	2389.1	2350.4
7.5°	3468.4	3382.5	3169.2	2895.8	2576.6	2334.7	2118.6	1979.7	1880.9	1849.4	1817.9
10°	3582.9	3458.4	3124.9	2699.7	2240.2	1932.5	1700.6	1591.8	1524.5	1501.6	1484.4
12.5°	3716.1	3545.7	3066.2	2460.7	1893.8	1597.5	1450.1	1395.7	1374.2	1367.0	1362.7
15°	3883.5	3654.5	2977.4	2177.2	1600.4	1392.8	1329.8	1322.7	1325.5	1322.7	1321.2
17.5°	4082.5	3773.3	2832.8	1885.2	1402.8	1288.3	1265.4	1271.1	1278.3	1276.9	1274.0
20°	4300.1	3890.7	2648.2	1626.1	1268.3	1213.9	1201.0	1206.7	1212.4	1209.6	1208.1
22.5°	4547.7	4016.7	2443.5	1424.3	1178.1	1145.2	1130.8	1132.3	1132.3	1126.6	1123.7
25°	4844.0	4155.5	2228.8	1281.2	1109.4	1083.6	1066.4	1060.7	1052.1	1034.9	1032.1
27.5°	5197.6	4302.9	2022.6	1180.9	1055.0	1030.6	1010.6	996.3	974.8	946.2	943.3
30°	5595.6	4481.9	1848.0	1118.0	1012.0	987.7	964.8	943.3	911.8	876.0	873.2
32.5°	6063.6	4673.7	1720.6	1076.5	973.4	947.6	920.4	894.7	860.3	824.5	825.9
35°	6621.9	4905.6	1646.2	1047.8	943.3	909.0	878.9	850.3	824.5	793.0	790.2
37.5°	7227.4	5151.8	1623.3	1033.5	923.3	870.3	836.0	815.9	813.1	794.5	793.0
40°	7890.2	5443.8	1640.4	1024.9	901.8	833.1	795.9	791.6	798.8	765.8	767.3
42.5°	8591.6	5790.2	1669.1	1014.9	871.8	795.9	760.1	760.1	754.4	708.6	708.6
45°	9350.3	6189.6	1697.7	990.6	836.0	758.7	731.5	721.5	697.1	652.7	651.3
47.5°	10114.7	6596.1	1719.2	946.2	793.0	727.2	702.8	679.9	644.2	604.1	602.6
50°	10840.4	6961.2	1696.3	880.3	744.4	697.1	671.4	639.9	601.2	574.0	569.7
52.5°	11488.8	7277.5	1598.9	803.0	692.8	665.6	642.7	609.8	578.3	549.7	546.8
55°	12052.8	7533.7	1427.2	730.0	647.0	638.4	615.5	574.0	531.1	506.7	503.9
57.5°	12593.9	7728.4	1212.4	669.9	605.5	608.4	574.0	536.8	496.7	470.9	468.1
60°	13313.9	7988.9	994.9	614.1	561.1	569.7	532.5	505.3	455.2	422.3	418.0
62.5°	14464.8	8394.0	790.2	545.4	509.6	512.5	496.7	463.8	403.7	365.0	362.2
65°	15378.1	8245.2	622.7	470.9	450.9	455.2	455.2	419.4	355.0	310.6	306.3
67.5°	15275.0	7059.9	496.7	397.9	395.1	397.9	408.0	377.9	314.9	279.1	273.4
70°	14071.2	5615.6	397.9	330.7	343.5	336.4	365.0	345.0	283.4	247.6	243.3
72.5°	11481.7	4045.3	303.5	273.4	263.4	274.8	329.2	310.6	236.2	196.1	191.8
75°	6709.2	2158.6	226.2	216.1	190.4	229.0	292.0	264.8	180.4	144.6	140.3
77.5°	2184.4	752.9	166.0	158.9	141.7	184.7	249.1	223.3	147.4	114.5	110.2
80°	585.5	227.6	113.1	104.5	91.6	137.4	197.5	177.5	105.9	74.4	73.0
82.5°	234.8	95.9	65.8	58.7	50.1	94.5	156.0	143.1	78.7	47.2	47.2
85°	75.9	31.5	24.3	18.6	22.9	58.7	93.0	97.3	55.8	24.3	18.6
87.5°	10.0	4.3	4.3	5.7	4.3	10.0	28.6	27.2	15.7	2.9	0.0
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)