

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: P970901

Luminaire Tested: **NAV-SB6C-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-735-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35244.6 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 300.9
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



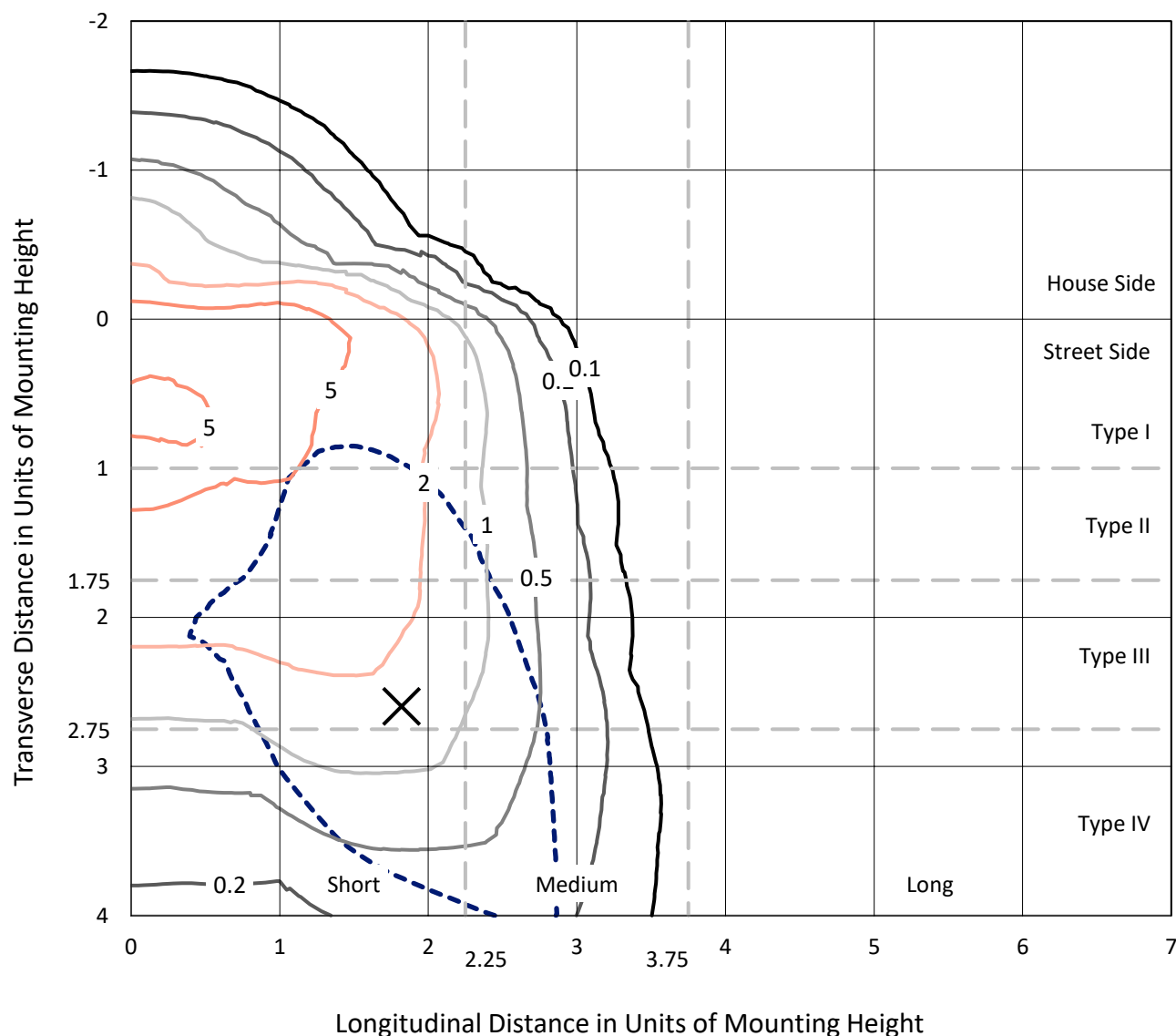
REPORT NUMBER: P970901

CATALOG NUMBER: NAV-SB6C-735-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

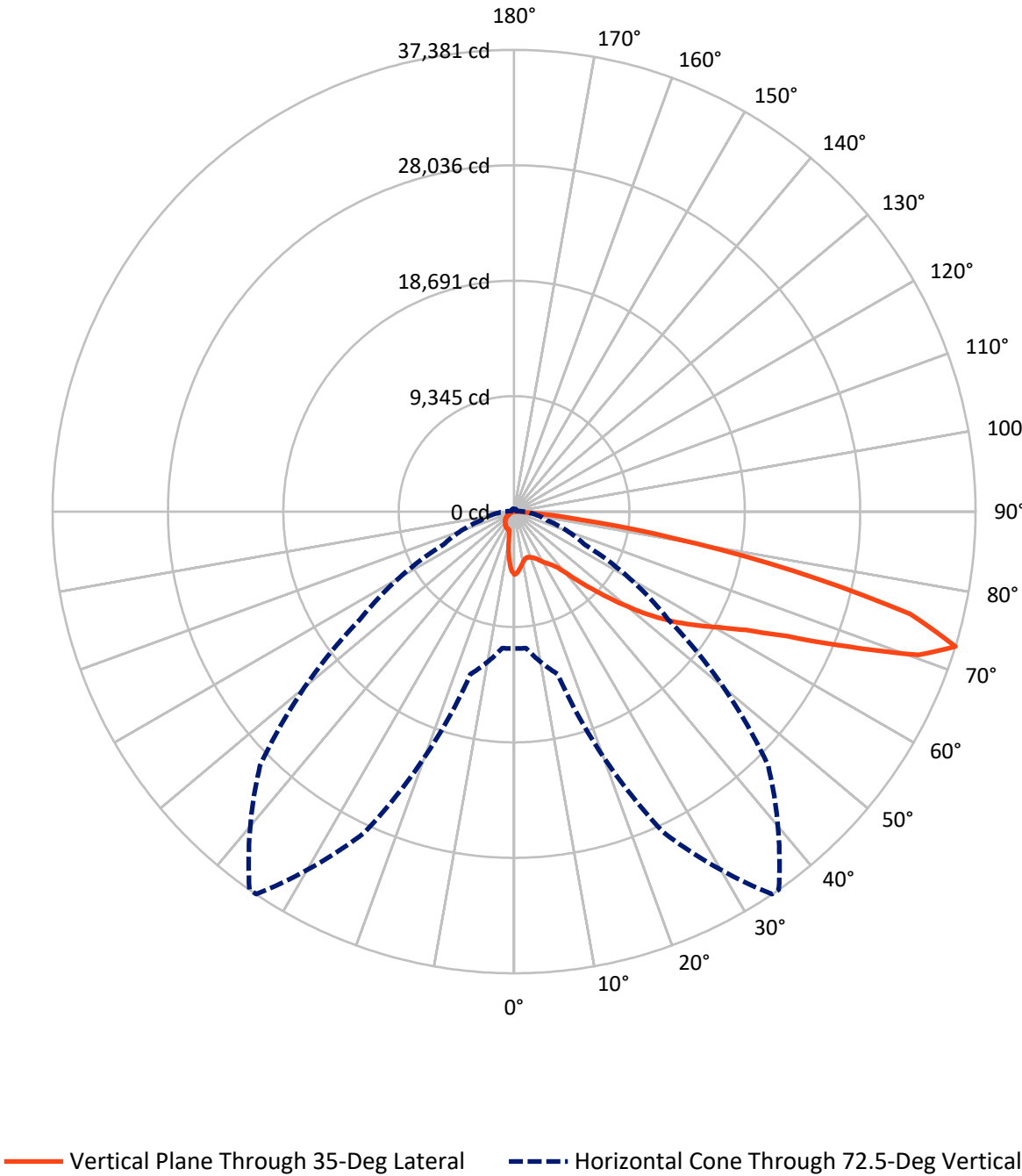


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc

Type IV - Short - N/A

REPORT NUMBER: P970901
CATALOG NUMBER: NAV-SB6C-735-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P970901

CATALOG NUMBER: NAV-SB6C-735-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3966.6	0.0	3966.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	31278.0	0.0	31278.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	35244.6	0.0	35244.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.8	1.2
10°-20°	982.0	2.8
20°-30°	1595.2	4.5
30°-40°	2661.5	7.6
40°-50°	5035.7	14.3
50°-60°	8001.7	22.7
60°-70°	9898.6	28.1
70°-80°	6153.0	17.5
80°-90°	497.3	1.4
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°	35244.6	100.0
0°-180°	35244.6	100.0

Coefficient of Utilization



REPORT NUMBER: P970901

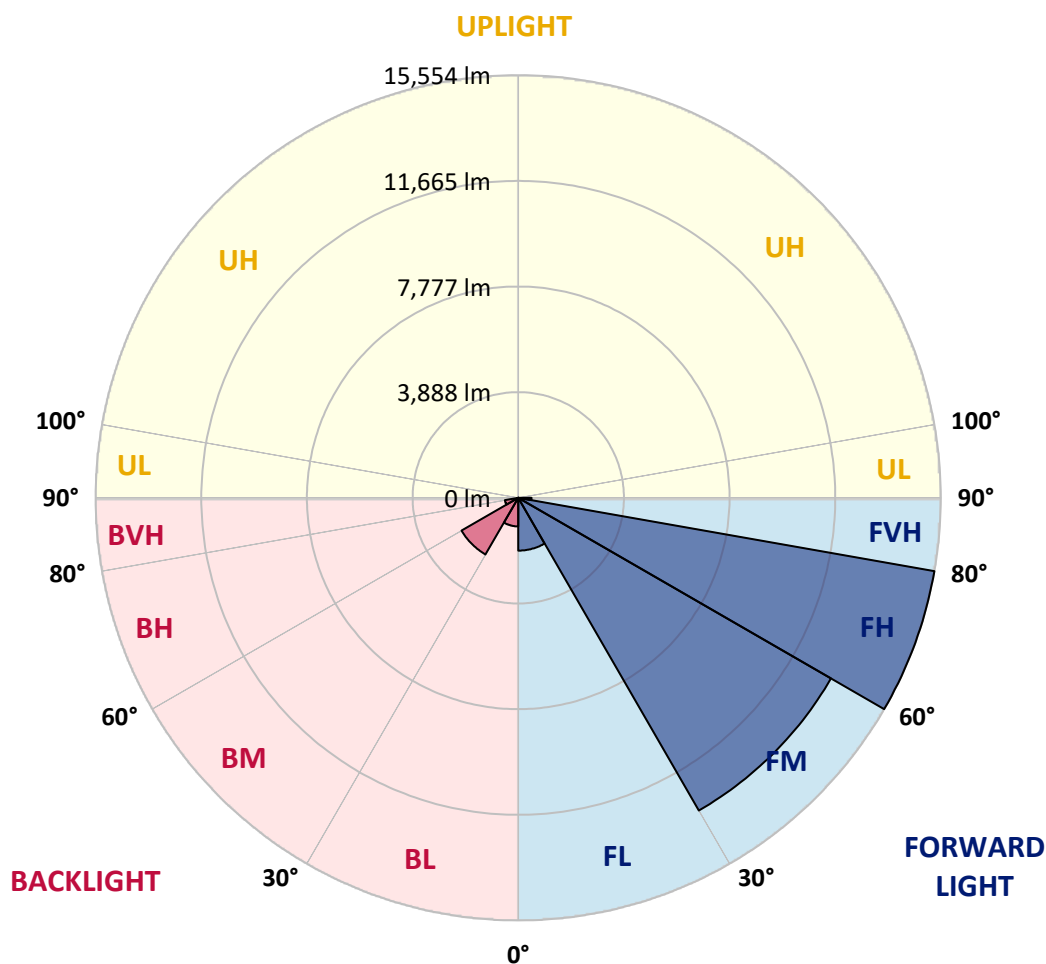
CATALOG NUMBER: NAV-SB6C-735-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1942.9	5.5			
FM	(30°-60°)	13290.7	37.7			
FH	(60°-80°)	15553.9	44.1			G5
FVH	(80°-90°)	490.5	1.4			G3/500
BL	(0°-30°)	1054.0	3.0	B3/2500		
BM	(30°-60°)	2408.1	6.8	B2/2500		
BH	(60°-80°)	497.8	1.4	B1/500		G1/500
BVH	(80°-90°)	6.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



REPORT NUMBER: P970901

CATALOG NUMBER: NAV-SB6C-735-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5108.1	5108.1	5108.1	5108.1	5108.1	5108.1	5108.1	5108.1	5108.1	5108.1	5108.1
2.5°	4880.8	4922.2	4929.9	4942.9	4942.9	4958.3	4984.2	5020.3	5079.7	5110.8	5131.4
5°	4498.6	4529.7	4568.4	4599.4	4658.7	4666.5	4767.3	4865.4	5002.2	5105.5	5177.9
7.5°	4113.8	4150.0	4201.7	4276.6	4354.1	4377.3	4529.7	4694.9	4911.9	5105.5	5226.9
10°	3842.7	3845.3	3891.8	3966.6	4090.7	4119.1	4305.0	4540.0	4811.1	5074.6	5273.4
12.5°	3690.3	3708.4	3729.1	3785.9	3904.7	3922.8	4121.6	4398.0	4710.4	5056.4	5327.6
15°	3690.3	3703.2	3716.1	3744.6	3840.2	3855.6	4031.2	4307.6	4658.7	5064.2	5415.5
17.5°	3729.1	3749.8	3739.4	3773.0	3873.7	3884.0	4039.0	4281.7	4656.2	5113.3	5549.8
20°	3822.0	3837.6	3816.9	3837.6	3938.3	3959.0	4119.1	4330.8	4700.1	5198.5	5717.6
22.5°	3969.2	3977.0	3927.9	3943.5	4046.7	4072.5	4258.5	4470.2	4806.0	5335.4	5942.2
25°	4155.1	4170.7	4095.8	4113.8	4212.0	4243.0	4457.3	4679.4	4973.8	5523.9	6228.9
27.5°	4369.6	4377.3	4312.7	4310.1	4436.7	4480.6	4697.5	4937.7	5198.5	5761.5	6590.4
30°	4614.9	4638.1	4576.1	4565.8	4726.0	4762.0	4976.4	5255.3	5529.1	6117.9	7104.4
32.5°	4808.6	4826.6	4790.4	4816.3	4979.0	5007.4	5314.7	5704.6	6048.1	6624.1	7804.2
35°	5087.5	5097.8	5015.1	5061.7	5247.6	5319.9	5777.0	6334.8	6701.6	7259.4	8718.4
37.5°	6097.2	6097.2	5746.0	5516.1	5694.4	5758.9	6409.7	7127.6	7507.2	8111.5	9870.2
40°	7494.3	7471.1	6957.2	6487.1	6464.0	6590.4	7311.0	8127.0	8548.0	9134.2	11166.6
42.5°	8984.4	8948.2	8248.4	7783.5	7706.1	7750.0	8351.7	9358.9	9787.5	10381.5	12561.2
45°	10306.7	10296.3	9655.9	9030.9	8891.5	9030.9	9650.7	10799.9	11107.2	11732.2	13953.1
47.5°	11414.5	11414.5	10947.1	10539.0	10466.8	10549.4	11409.4	12398.4	12370.0	13170.6	15308.9
50°	12690.2	12680.0	12235.7	12060.2	12135.1	12251.2	13434.1	14082.2	13676.8	14583.2	16520.0
52.5°	13583.8	13645.8	13493.4	13465.0	13847.2	14048.6	15489.7	15729.9	14846.6	15923.5	17426.5
55°	14291.4	14363.7	14539.3	14738.2	15474.1	15737.5	17480.8	17292.3	15825.4	17085.6	17948.2
57.5°	15293.4	15190.1	15461.3	15853.8	17044.3	17362.0	19409.8	18766.8	16613.0	18028.2	18004.9
60°	16509.8	16525.3	16571.7	17067.6	18611.8	19019.9	21310.6	20161.3	17119.2	18606.7	17374.9
62.5°	17971.4	17994.7	18090.2	18852.0	20716.6	21101.4	23335.3	21302.8	17351.6	18444.1	15747.9
65°	17870.7	17968.9	19035.4	21641.1	23916.2	24295.9	25698.2	22103.4	17000.4	16956.5	12821.9
67.5°	16279.9	16440.0	18224.5	24972.5	28740.3	29163.8	28554.3	22260.9	15484.5	13186.1	8364.6
70°	14193.3	14250.1	16396.1	27968.2	34326.2	34754.9	31111.0	20528.1	11750.3	7354.9	3747.2
72.5°	11083.9	11096.9	13614.8	28662.9	37358.1	37381.2	29104.5	15239.2	6319.3	2825.2	1301.5
75°	7917.8	7840.4	9118.7	23244.8	32867.1	33130.6	21819.3	7148.2	2414.6	1335.2	648.2
77.5°	4245.5	4330.8	5159.7	13785.2	22705.1	23154.4	11905.2	2060.8	1229.3	909.1	428.7
80°	1311.9	1384.2	2115.1	6311.5	12860.7	13131.9	4413.4	916.8	857.4	648.2	281.5
82.5°	413.2	428.7	986.5	2652.2	5338.0	5461.9	1278.3	519.1	586.2	428.7	165.2
85°	118.8	121.4	439.0	989.1	1319.7	1345.5	359.0	201.4	335.7	266.0	85.2
87.5°	12.9	41.3	165.2	165.2	116.2	113.7	38.7	43.9	95.5	33.6	15.5
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: P970901

CATALOG NUMBER: NAV-SB6C-735-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5108.1	5108.1	5108.1	5108.1	5108.1	5108.1	5108.1	5108.1	5108.1	5108.1	5108.1
2.5°	5118.4	5121.0	5087.5	5030.7	4968.7	4917.0	4852.5	4800.8	4764.6	4754.4	4772.4
5°	5154.6	5136.6	5041.0	4867.9	4661.4	4483.1	4284.3	4126.8	4023.5	3979.6	3995.0
7.5°	5208.8	5157.2	4948.0	4607.2	4212.0	3860.8	3504.4	3228.1	3052.4	2964.7	2977.6
10°	5255.3	5152.1	4793.1	4230.1	3625.8	3093.8	2613.4	2280.3	2094.4	2006.5	2009.2
12.5°	5299.2	5149.5	4591.6	3783.3	2964.7	2313.9	1867.1	1701.8	1650.2	1632.1	1627.0
15°	5381.9	5157.2	4338.5	3272.0	2306.1	1748.3	1585.7	1583.0	1593.4	1588.2	1585.7
17.5°	5495.5	5165.0	4051.9	2729.7	1779.3	1541.7	1534.0	1557.2	1572.8	1565.0	1562.4
20°	5642.7	5195.9	3747.2	2192.5	1528.8	1490.0	1508.2	1528.8	1541.7	1528.8	1526.2
22.5°	5849.3	5250.2	3414.1	1761.3	1448.7	1459.1	1474.6	1497.8	1510.7	1492.7	1490.0
25°	6102.3	5335.4	3086.1	1531.5	1410.0	1422.9	1446.2	1472.0	1487.5	1469.4	1466.9
27.5°	6430.3	5472.3	2783.9	1479.8	1371.2	1379.0	1412.7	1451.4	1472.0	1448.7	1448.7
30°	6905.5	5697.0	2523.0	1503.0	1348.1	1329.9	1376.5	1430.7	1454.0	1433.3	1430.7
32.5°	7535.7	6014.6	2362.9	1539.1	1337.7	1273.2	1317.0	1386.8	1425.6	1412.7	1412.7
35°	8362.1	6497.5	2301.0	1580.4	1329.9	1213.8	1244.8	1319.7	1386.8	1399.7	1399.7
37.5°	9364.0	7169.0	2319.1	1598.6	1306.8	1164.7	1180.2	1244.8	1332.6	1373.9	1384.2
40°	10502.9	7951.4	2422.4	1580.4	1280.9	1123.4	1126.0	1175.1	1252.4	1314.5	1335.2
42.5°	11677.9	8865.6	2613.4	1513.3	1257.7	1087.2	1079.4	1113.0	1164.7	1208.6	1226.7
45°	12796.1	9805.7	2801.9	1420.3	1229.3	1051.0	1033.0	1045.9	1056.3	1074.3	1084.7
47.5°	13772.3	10466.8	2747.7	1335.2	1190.5	1009.7	978.8	973.5	942.6	940.0	937.5
50°	14446.4	10611.4	2440.4	1249.9	1133.8	963.3	914.2	883.2	829.0	803.2	805.8
52.5°	14660.7	10040.7	1993.6	1164.7	1040.8	901.3	831.6	782.5	715.3	692.1	689.5
55°	14376.6	8922.4	1593.4	1061.4	911.6	818.7	741.2	676.6	622.4	594.0	594.0
57.5°	13681.9	7499.5	1260.2	940.0	774.7	725.7	648.2	583.6	537.2	508.7	503.6
60°	12530.1	5955.1	996.8	795.4	661.1	624.9	544.9	503.6	462.3	428.7	421.0
62.5°	10781.8	4250.8	782.5	630.2	552.7	511.4	464.8	433.9	384.8	338.4	330.6
65°	8413.7	2600.5	604.3	462.3	444.2	423.5	395.1	366.7	307.3	260.9	253.1
67.5°	5306.9	1231.8	431.3	348.6	351.2	340.9	328.0	304.7	260.9	219.6	214.3
70°	2337.1	596.6	284.0	266.0	260.9	260.9	271.1	263.4	222.1	183.4	175.6
72.5°	795.4	320.2	211.8	201.4	188.5	185.9	227.2	219.6	178.1	142.1	134.3
75°	415.7	214.3	155.0	144.6	113.7	136.8	180.8	170.5	126.6	93.0	85.2
77.5°	271.1	152.3	105.9	93.0	64.6	90.4	134.3	118.8	74.9	46.5	41.3
80°	170.5	100.8	62.0	43.9	31.0	49.1	72.3	51.7	28.4	10.4	7.8
82.5°	90.4	51.7	23.3	15.5	12.9	15.5	18.0	12.9	5.1	0.0	0.0
85°	36.2	18.0	7.8	5.1	2.6	0.0	5.1	2.6	0.0	0.0	0.0
87.5°	12.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)