

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: P971430

Luminaire Tested: **NAV-SB6D-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-735-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48721.3 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

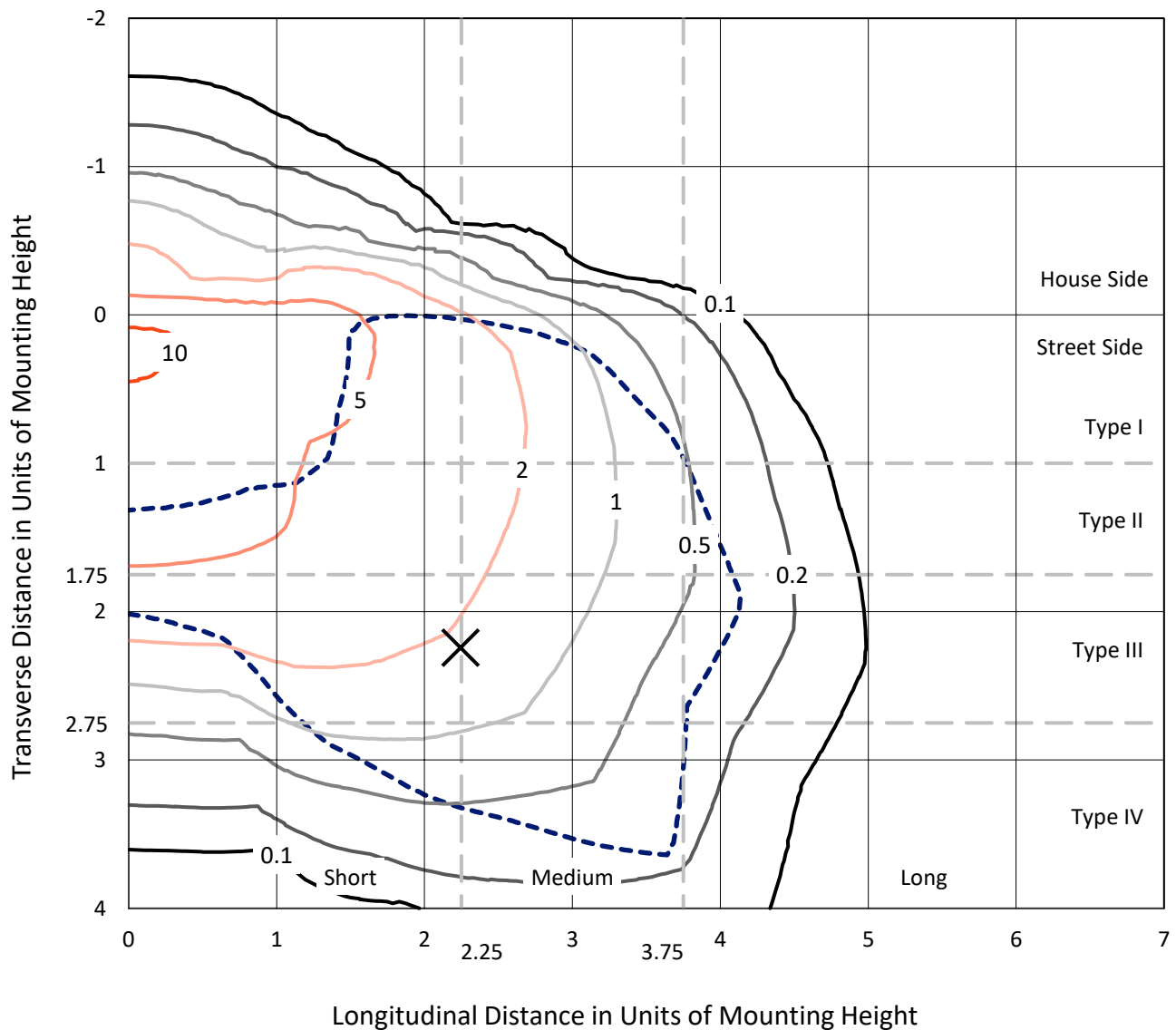
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P971430
CATALOG NUMBER: NAV-SB6D-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

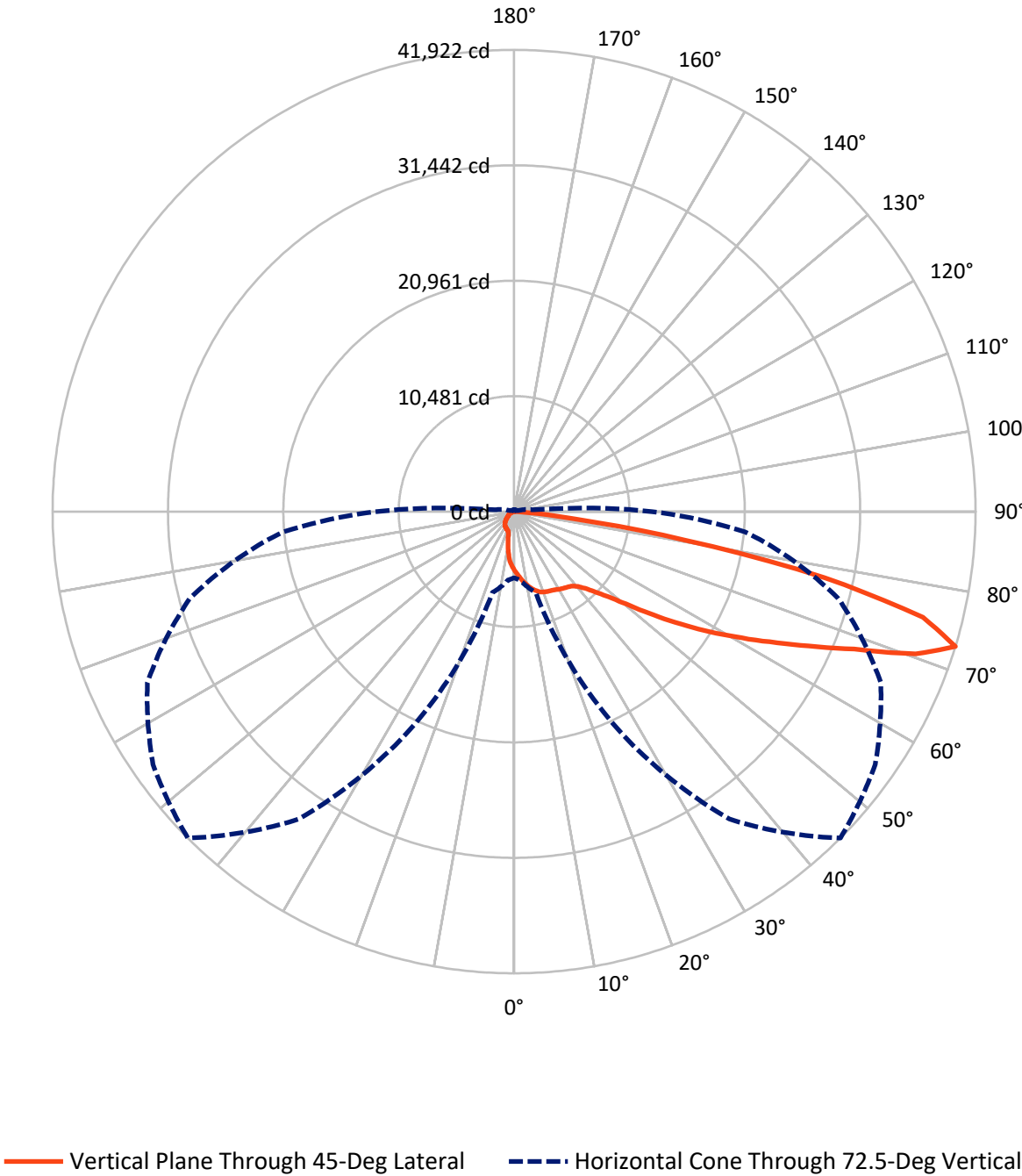
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
Type IV - Short - N/A

REPORT NUMBER: P971430
CATALOG NUMBER: NAV-SB6D-735-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P971430

CATALOG NUMBER: NAV-SB6D-735-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5119.3	0.0	5119.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	43602.1	0.0	43602.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	48721.3	0.0	48721.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.9	1.0
10°-20°	1469.8	3.0
20°-30°	2413.6	5.0
30°-40°	3423.0	7.0
40°-50°	5657.9	11.6
50°-60°	10163.8	20.9
60°-70°	14113.0	29.0
70°-80°	10237.1	21.0
80°-90°	740.1	1.5
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°	48721.3	100.0
0°-180°	48721.3	100.0

Coefficient of Utilization



REPORT NUMBER: P971430

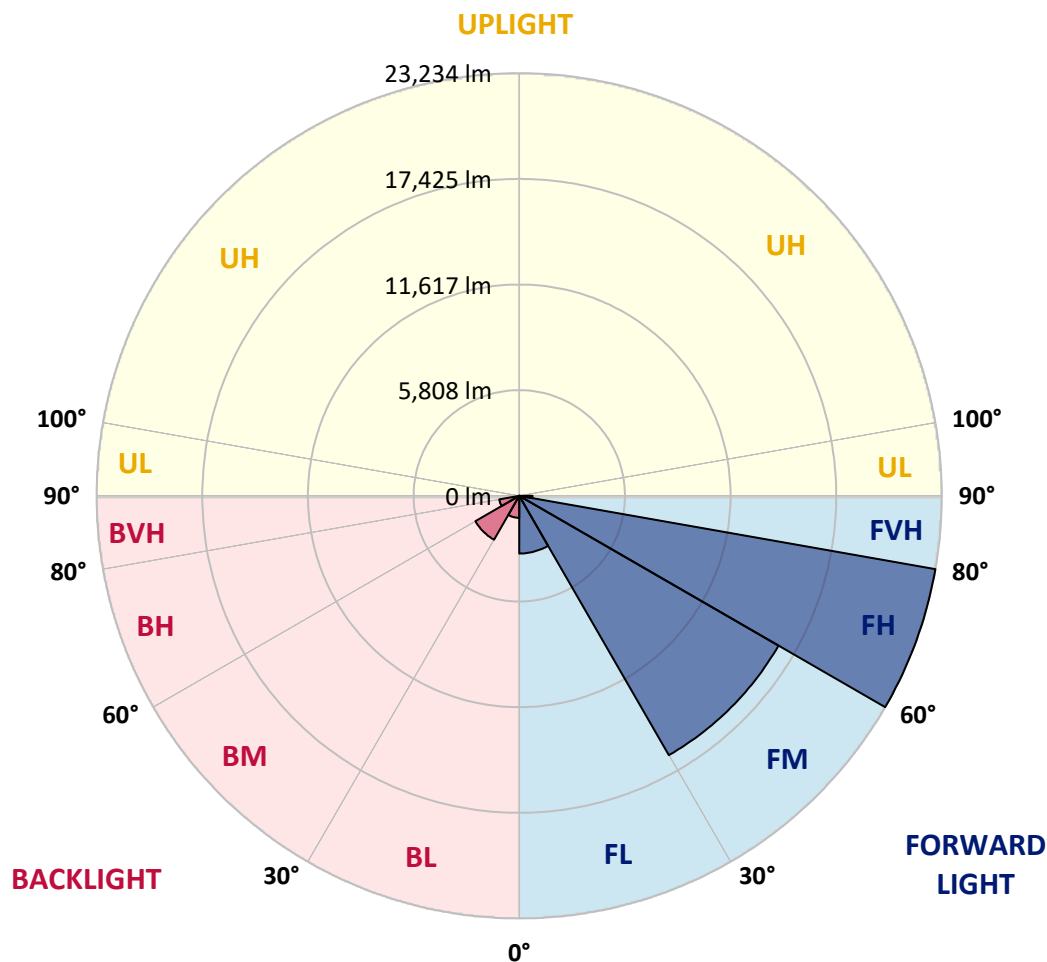
CATALOG NUMBER: NAV-SB6D-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3173.7	6.5			
FM	(30°-60°)	16460.7	33.8			
FH	(60°-80°)	23233.8	47.7			G5
FVH	(80°-90°)	733.9	1.5			G4/750
BL	(0°-30°)	1212.6	2.5	B3/2500		
BM	(30°-60°)	2784.1	5.7	B3/5000		
BH	(60°-80°)	1116.4	2.3	B3/2500		G3/2500
BVH	(80°-90°)	6.2	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: P971430

CATALOG NUMBER: NAV-SB6D-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5337.5	5337.5	5337.5	5337.5	5337.5	5337.5	5337.5	5337.5	5337.5	5337.5	5337.5
2.5°	5829.7	5839.7	5833.1	5793.1	5726.6	5690.1	5670.1	5603.6	5560.3	5483.9	5404.0
5°	6365.1	6405.0	6381.8	6301.9	6175.5	6085.7	6059.2	5922.9	5799.8	5656.8	5490.5
7.5°	6933.8	6953.7	6910.6	6807.4	6637.8	6484.9	6461.6	6272.0	6075.8	5856.3	5630.2
10°	7426.0	7449.3	7382.8	7233.1	7040.2	6850.7	6817.4	6607.9	6375.1	6105.7	5816.4
12.5°	7838.4	7861.6	7775.1	7595.6	7382.8	7186.6	7153.3	6933.8	6677.8	6378.5	6019.3
15°	8150.9	8194.2	8077.8	7884.9	7655.4	7459.2	7442.6	7226.5	6977.1	6644.5	6262.0
17.5°	8333.9	8377.1	8267.3	8034.6	7838.4	7672.0	7652.1	7472.6	7239.8	6920.5	6498.2
20°	8363.8	8403.7	8287.3	8084.5	7921.5	7788.5	7778.5	7648.8	7479.2	7173.3	6754.2
22.5°	8274.0	8323.9	8217.4	8054.6	7941.4	7871.6	7858.3	7785.2	7688.7	7429.3	6993.7
25°	8180.8	8220.8	8141.0	7998.0	7938.1	7931.4	7941.4	7928.2	7908.2	7688.7	7273.0
27.5°	8174.3	8217.4	8127.6	7991.3	7958.1	8027.9	8037.8	8101.1	8117.7	7924.8	7542.4
30°	8230.8	8260.7	8174.3	8031.2	8014.6	8174.3	8177.6	8290.6	8317.3	8124.4	7808.4
32.5°	8353.9	8387.1	8300.6	8091.0	8067.8	8290.6	8300.6	8450.2	8493.5	8337.1	8087.8
35°	8643.1	8683.1	8583.2	8257.4	8174.3	8400.4	8430.3	8606.5	8693.0	8563.4	8377.1
37.5°	9364.8	9248.4	9112.0	8593.3	8417.0	8573.3	8623.2	8829.3	8982.4	8832.7	8723.0
40°	11157.2	10791.4	10365.7	9165.2	8842.7	8942.4	8982.4	9188.5	9398.0	9251.8	9198.5
42.5°	13847.6	13415.3	12730.3	10482.2	9484.5	9534.3	9564.3	9743.9	10039.9	9923.4	9936.8
45°	16245.3	16089.0	15390.7	12730.3	10685.0	10438.9	10475.5	10568.7	11004.3	10961.0	11047.6
47.5°	18087.8	17998.0	17459.2	15310.8	12713.6	11546.3	11649.4	11692.7	12321.2	12474.1	12706.9
50°	19504.4	19471.2	18988.9	17605.5	15364.1	13179.2	13215.7	13122.7	14063.8	14442.9	14885.3
52.5°	20841.3	20954.4	20598.5	19737.2	18194.2	15317.5	15310.8	14871.9	16142.3	16714.3	17469.2
55°	22048.5	22088.3	22124.9	21912.1	21040.8	17751.9	17688.6	16970.3	18553.3	19145.3	19963.3
57.5°	23182.5	23199.1	23525.0	23960.7	24003.9	20365.7	20249.4	19388.0	21187.2	21609.5	22111.6
60°	23944.0	24020.6	24709.0	25919.4	26448.2	23062.8	22999.6	22121.7	23867.5	24063.7	23970.6
62.5°	22846.6	23312.2	25048.1	27449.2	28756.2	26052.4	26022.5	25197.8	26687.6	26528.0	25729.9
65°	18493.5	19281.6	22334.4	28483.4	31020.8	29391.3	29434.5	28556.6	29584.2	29065.4	27159.8
67.5°	12936.4	13767.8	17379.4	28566.5	33551.5	33312.1	33561.6	32184.8	32660.3	31496.4	27499.1
70°	8945.8	9374.8	11725.9	26777.4	35523.6	38712.8	38706.2	36641.0	35719.8	32603.8	25769.7
72.5°	6015.9	6238.8	7615.5	21243.6	34073.7	41922.0	41729.2	40046.4	36750.8	30492.1	21054.1
75°	2537.4	2700.4	3525.1	11938.8	26957.0	38353.7	37831.6	35390.6	32653.6	24010.5	13136.0
77.5°	804.8	874.6	1390.1	4273.3	14848.7	28829.3	28277.3	22101.7	21885.5	12045.2	4802.1
80°	382.4	445.7	781.5	1716.0	5843.0	15680.0	15603.6	10026.6	9414.6	3252.4	964.4
82.5°	166.3	196.2	432.3	917.9	2613.9	5593.6	5706.7	3412.0	2823.4	1233.8	296.0
85°	53.2	69.8	199.6	422.3	1104.1	1390.1	1373.5	811.4	1137.3	671.8	103.1
87.5°	0.0	0.0	66.5	96.5	113.1	79.8	89.8	69.8	315.9	186.2	36.6
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: P971430

CATALOG NUMBER: NAV-SB6D-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5337.5	5337.5	5337.5	5337.5	5337.5	5337.5	5337.5	5337.5	5337.5	5337.5	5337.5
2.5°	5364.1	5310.9	5217.8	5131.4	5054.9	4978.3	4931.8	4865.3	4858.6	4858.6	4875.3
5°	5400.7	5314.2	5148.0	4971.8	4768.8	4576.0	4383.1	4196.9	4137.0	4093.7	4113.7
7.5°	5507.1	5370.8	5108.1	4772.2	4386.4	3964.1	3668.1	3348.9	3225.8	3159.3	3169.3
10°	5660.2	5473.9	5074.8	4486.2	3861.0	3285.6	2863.3	2517.4	2384.5	2327.9	2327.9
12.5°	5829.7	5600.3	5014.9	4130.3	3285.6	2597.2	2184.9	2025.3	2005.3	2005.3	2005.3
15°	6032.5	5753.2	4911.9	3711.3	2683.8	2055.2	1908.9	1915.5	1935.5	1948.7	1948.7
17.5°	6242.0	5916.2	4748.9	3242.4	2151.7	1849.0	1852.4	1862.3	1878.9	1892.3	1892.3
20°	6468.3	6079.2	4532.8	2743.6	1845.7	1789.1	1799.1	1809.1	1822.4	1829.0	1832.4
22.5°	6711.0	6232.1	4276.7	2254.7	1742.6	1739.2	1742.6	1752.5	1769.2	1769.2	1775.8
25°	6970.4	6401.7	3984.1	1898.9	1689.4	1689.4	1696.1	1702.7	1716.0	1716.0	1719.3
27.5°	7236.4	6558.1	3674.7	1712.7	1642.9	1639.5	1639.5	1649.4	1656.1	1659.5	1662.8
30°	7529.0	6740.9	3365.5	1672.8	1606.3	1589.6	1579.6	1586.3	1593.0	1596.2	1602.9
32.5°	7828.3	6917.2	3089.5	1689.4	1569.7	1539.8	1506.4	1499.8	1499.8	1513.1	1523.1
35°	8160.9	7110.0	2876.6	1745.9	1549.7	1466.6	1413.4	1383.4	1386.7	1406.7	1416.7
37.5°	8560.0	7342.8	2720.4	1795.8	1536.4	1383.4	1296.9	1260.3	1237.1	1260.3	1253.8
40°	9082.1	7685.3	2607.2	1835.7	1519.8	1287.0	1170.6	1110.7	1067.5	1080.8	1074.2
42.5°	9850.4	8224.1	2564.0	1839.1	1483.2	1173.9	1040.9	961.0	897.9	901.2	888.0
45°	10927.8	9075.5	2786.8	1795.8	1403.4	1050.8	904.6	798.2	758.2	748.2	734.9
47.5°	12404.3	10315.9	3302.2	1706.0	1287.0	931.1	771.5	681.7	651.8	635.2	625.2
50°	14383.0	11908.9	3874.3	1606.3	1170.6	818.1	661.7	605.3	585.3	568.7	565.4
52.5°	16677.7	13525.1	4343.2	1506.4	1054.2	718.3	591.9	558.7	542.0	528.8	525.4
55°	18782.8	14639.2	4316.6	1400.0	941.2	638.5	542.0	522.1	502.1	488.8	482.2
57.5°	20093.1	14795.5	3558.4	1283.7	811.4	575.3	495.5	482.2	458.9	442.3	439.0
60°	20695.0	13904.1	2494.1	1130.7	681.7	515.5	445.7	439.0	409.1	385.8	379.1
62.5°	20804.7	12248.0	1662.8	941.2	568.7	458.9	395.8	385.8	345.8	306.0	286.0
65°	20359.1	9880.3	1150.7	734.9	485.5	399.0	339.2	319.3	276.0	236.2	222.8
67.5°	18949.1	6937.1	801.4	528.8	412.4	315.9	269.4	262.7	229.5	196.2	186.2
70°	16365.0	3954.1	535.5	395.8	326.0	216.2	212.8	219.5	186.2	159.6	146.4
72.5°	12547.3	1809.1	332.5	289.4	222.8	146.4	169.6	172.9	143.0	119.7	106.4
75°	7386.0	774.9	209.5	186.2	113.1	96.5	123.0	126.4	96.5	76.5	66.5
77.5°	2514.1	292.6	133.0	109.8	56.6	53.2	79.8	79.8	53.2	29.9	23.3
80°	571.9	109.8	66.5	43.3	26.6	23.3	26.6	23.3	13.3	3.3	0.0
82.5°	163.0	43.3	26.6	16.6	9.9	9.9	3.3	0.0	0.0	0.0	0.0
85°	46.5	20.0	6.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.0	3.3	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)