

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: P970932

Luminaire Tested: **NAV-SB6C-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970932
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-740-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 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: 37288.5 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

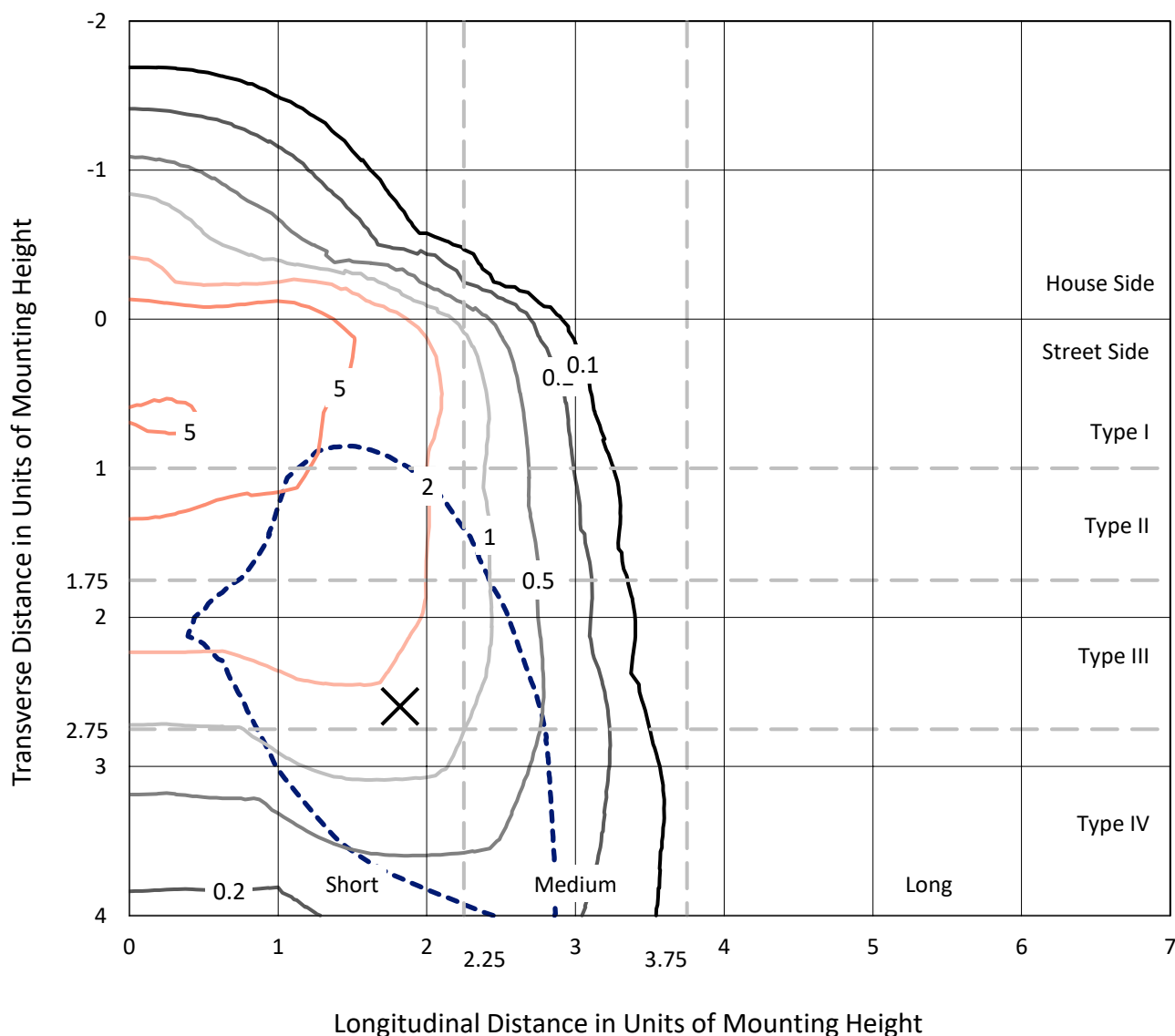
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

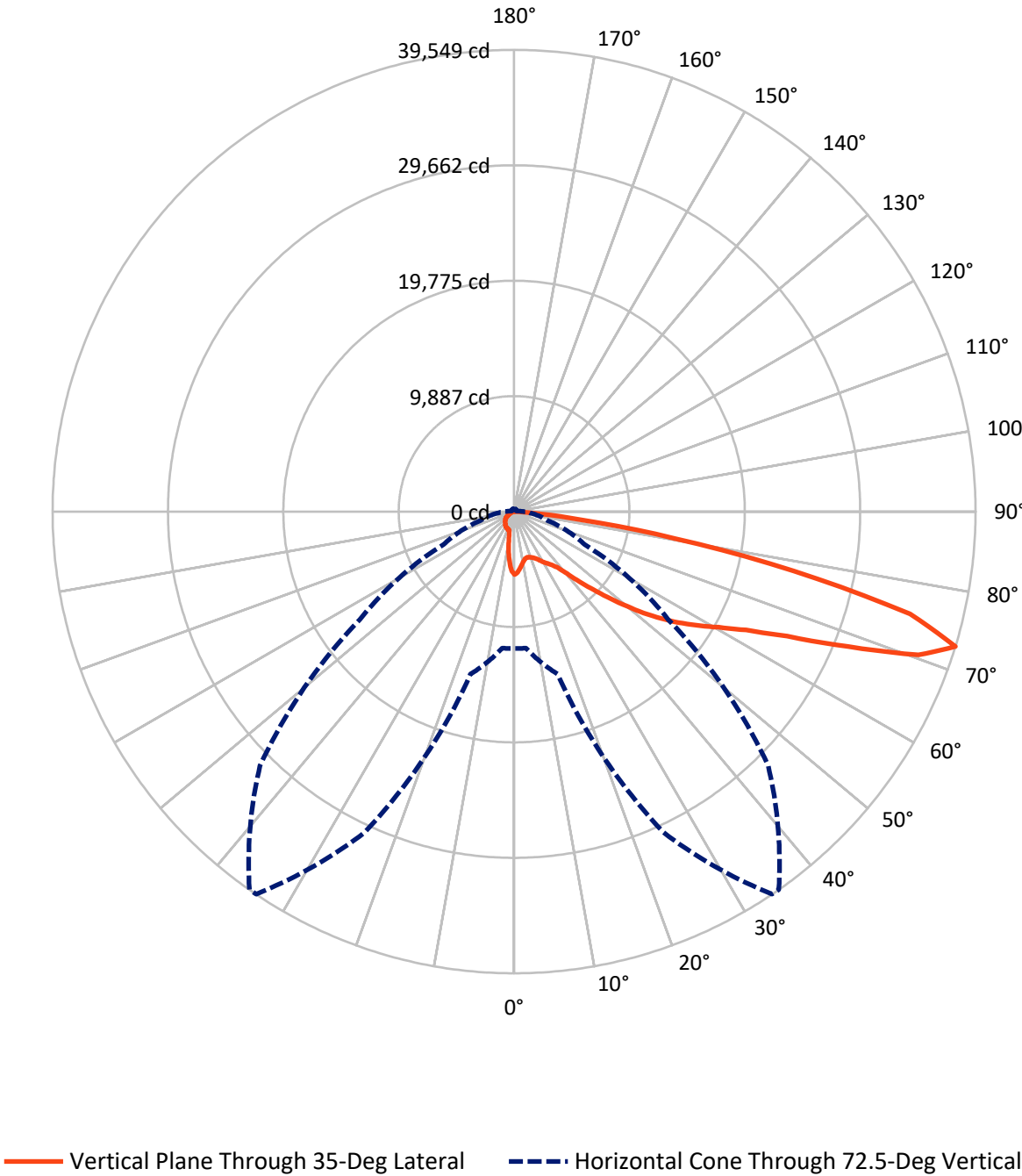
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4196.7	0.0	4196.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	33091.8	0.0	33091.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	37288.5	0.0	37288.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.1	1.2
10°-20°	1038.9	2.8
20°-30°	1687.7	4.5
30°-40°	2815.9	7.6
40°-50°	5327.7	14.3
50°-60°	8465.7	22.7
60°-70°	10472.6	28.1
70°-80°	6509.9	17.5
80°-90°	526.1	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°	37288.5	100.0
0°-180°	37288.5	100.0

Coefficient of Utilization



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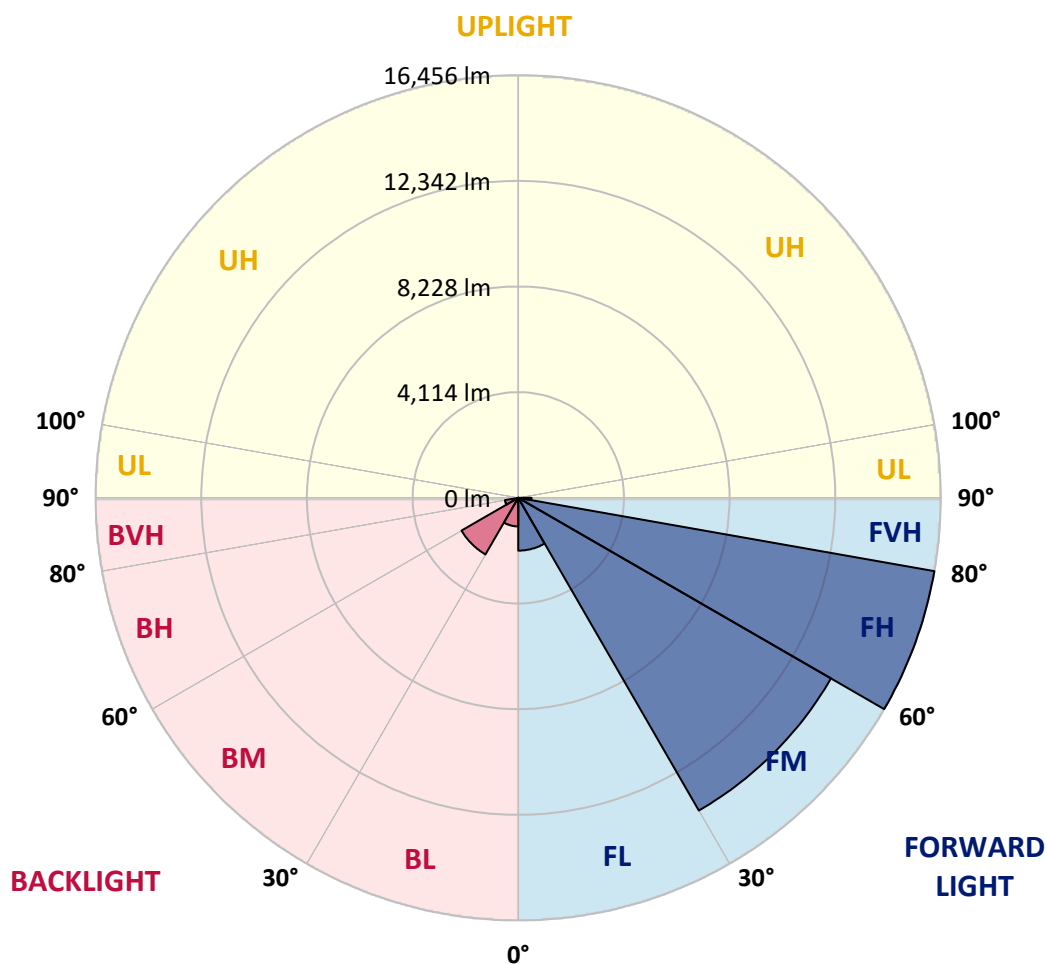
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2055.5	5.5			
FM	(30°-60°)	14061.5	37.7			
FH	(60°-80°)	16455.9	44.1			G5
FVH	(80°-90°)	518.9	1.4			G4/750
BL	(0°-30°)	1115.1	3.0	B3/2500		
BM	(30°-60°)	2547.7	6.8	B3/5000		
BH	(60°-80°)	526.6	1.4	B2/1000		G2/1000
BVH	(80°-90°)	7.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5404.3	5404.3	5404.3	5404.3	5404.3	5404.3	5404.3	5404.3	5404.3	5404.3	5404.3
2.5°	5164.0	5207.6	5215.8	5229.4	5229.4	5245.8	5273.2	5311.4	5374.3	5407.1	5428.9
5°	4759.6	4792.3	4833.3	4866.1	4928.9	4937.1	5043.7	5147.5	5292.3	5401.6	5478.1
7.5°	4352.5	4390.7	4445.3	4524.6	4606.6	4631.2	4792.3	4967.2	5196.8	5401.6	5530.1
10°	4065.6	4068.3	4117.4	4196.7	4327.9	4357.9	4554.6	4803.3	5090.2	5368.8	5579.2
12.5°	3904.3	3923.5	3945.3	4005.5	4131.2	4150.2	4360.7	4653.0	4983.5	5349.7	5636.6
15°	3904.3	3918.1	3931.7	3961.7	4062.8	4079.2	4265.0	4557.4	4928.9	5357.9	5729.4
17.5°	3945.3	3967.2	3956.3	3991.8	4098.4	4109.2	4273.2	4530.0	4926.3	5409.8	5871.6
20°	4043.7	4060.1	4038.2	4060.1	4166.6	4188.5	4357.9	4582.0	4972.7	5499.9	6049.1
22.5°	4199.4	4207.6	4155.8	4172.2	4281.4	4308.7	4505.5	4729.5	5084.7	5644.8	6286.8
25°	4396.1	4412.5	4333.3	4352.5	4456.3	4489.1	4715.8	4950.8	5262.2	5844.2	6590.1
27.5°	4623.0	4631.2	4562.8	4560.1	4694.0	4740.4	4969.9	5224.0	5499.9	6095.6	6972.7
30°	4882.5	4907.1	4841.5	4830.6	5000.0	5038.2	5265.0	5560.1	5849.7	6472.7	7516.3
32.5°	5087.4	5106.5	5068.3	5095.6	5267.8	5297.8	5622.9	6035.5	6398.9	7008.1	8256.8
35°	5382.5	5393.4	5306.0	5355.2	5551.9	5628.4	6112.0	6702.2	7090.1	7680.3	9224.0
37.5°	6450.8	6450.8	6079.2	5836.0	6024.5	6092.9	6781.4	7540.9	7942.6	8581.9	10442.6
40°	7928.9	7904.4	7360.6	6863.4	6838.8	6972.7	7735.0	8598.3	9043.7	9663.9	11814.2
42.5°	9505.4	9467.2	8726.7	8235.0	8153.0	8199.4	8836.0	9901.6	10355.2	10983.6	13289.5
45°	10904.4	10893.4	10215.8	9554.6	9407.0	9554.6	10210.3	11426.2	11751.3	12412.5	14762.3
47.5°	12076.4	12076.4	11581.9	11150.3	11073.7	11161.1	12071.0	13117.4	13087.4	13934.4	16196.6
50°	13426.2	13415.2	12945.3	12759.5	12838.7	12961.7	14213.1	14898.9	14469.9	15428.9	17478.1
52.5°	14371.5	14437.1	14275.9	14245.9	14650.2	14863.3	16387.9	16642.0	15707.6	16846.9	18437.1
55°	15120.2	15196.6	15382.5	15592.8	16371.5	16650.2	18494.5	18295.0	16743.1	18076.4	18988.9
57.5°	16180.2	16071.0	16357.9	16773.2	18032.7	18368.8	20535.5	19855.1	17576.4	19073.7	19049.1
60°	17467.1	17483.5	17532.7	18057.3	19691.2	20122.9	22546.3	21330.6	18112.0	19685.7	18382.5
62.5°	19013.5	19038.1	19139.3	19945.3	21918.0	22325.0	24688.5	22538.2	18357.9	19513.5	16661.2
65°	18907.0	19010.9	20139.3	22896.0	25303.1	25704.8	27188.4	23385.2	17986.3	17939.9	13565.6
67.5°	17224.0	17393.3	19281.4	26420.7	30406.9	30855.1	30210.2	23551.8	16382.5	13950.8	8849.6
70°	15016.4	15076.4	17346.9	29590.0	36316.8	36770.3	32915.2	21718.5	12431.6	7781.4	3964.5
72.5°	11726.7	11740.3	14404.3	30325.0	39524.4	39549.0	30792.2	16122.8	6685.8	2989.1	1377.1
75°	8377.0	8295.0	9647.5	24592.8	34773.1	35051.8	23084.6	7562.9	2554.6	1412.6	685.8
77.5°	4491.8	4582.0	5458.9	14584.6	24021.8	24497.2	12595.6	2180.3	1300.5	961.8	453.6
80°	1388.0	1464.5	2237.7	6677.6	13606.5	13893.4	4669.4	970.0	907.1	685.8	297.8
82.5°	437.2	453.6	1043.8	2806.0	5647.5	5778.6	1352.5	549.2	620.2	453.6	174.9
85°	125.7	128.4	464.5	1046.4	1396.2	1423.5	379.8	213.1	355.2	281.5	90.2
87.5°	13.6	43.7	174.9	174.9	123.0	120.2	41.0	46.4	101.1	35.6	16.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5404.3	5404.3	5404.3	5404.3	5404.3	5404.3	5404.3	5404.3	5404.3	5404.3	5404.3
2.5°	5415.3	5418.0	5382.5	5322.4	5256.8	5202.2	5133.8	5079.2	5041.0	5030.1	5049.2
5°	5453.5	5434.4	5333.3	5150.2	4931.7	4743.2	4532.8	4366.1	4256.8	4210.4	4226.8
7.5°	5510.9	5456.3	5235.0	4874.3	4456.3	4084.7	3707.6	3415.3	3229.5	3136.6	3150.2
10°	5560.1	5450.8	5071.0	4475.4	3836.1	3273.2	2765.0	2412.5	2215.8	2123.0	2125.6
12.5°	5606.5	5448.1	4857.9	4002.7	3136.6	2448.1	1975.4	1800.5	1745.9	1726.8	1721.3
15°	5694.0	5456.3	4590.2	3461.7	2439.9	1849.7	1677.6	1674.8	1685.8	1680.3	1677.6
17.5°	5814.2	5464.5	4286.9	2887.9	1882.5	1631.2	1623.0	1647.6	1663.9	1655.7	1653.0
20°	5969.9	5497.3	3964.5	2319.7	1617.4	1576.4	1595.6	1617.4	1631.2	1617.4	1614.8
22.5°	6188.5	5554.6	3612.0	1863.3	1532.8	1543.8	1560.2	1584.6	1598.4	1579.2	1576.4
25°	6456.3	5644.8	3265.0	1620.2	1491.8	1505.4	1530.0	1557.4	1573.8	1554.6	1552.0
27.5°	6803.2	5789.6	2945.3	1565.6	1450.8	1459.0	1494.6	1535.6	1557.4	1532.8	1532.8
30°	7306.0	6027.3	2669.4	1590.2	1426.2	1407.1	1456.3	1513.6	1538.2	1516.4	1513.6
32.5°	7972.7	6363.4	2500.0	1628.4	1415.3	1347.0	1393.5	1467.2	1508.2	1494.6	1494.6
35°	8847.0	6874.3	2434.4	1672.1	1407.1	1284.1	1316.9	1396.2	1467.2	1480.8	1480.8
37.5°	9907.0	7584.7	2453.5	1691.2	1382.5	1232.3	1248.7	1316.9	1409.8	1453.6	1464.5
40°	11112.0	8412.6	2562.8	1672.1	1355.2	1188.5	1191.3	1243.1	1325.1	1390.7	1412.6
42.5°	12355.1	9379.8	2765.0	1601.0	1330.6	1150.3	1142.1	1177.6	1232.3	1278.7	1297.9
45°	13538.2	10374.2	2964.5	1502.8	1300.5	1112.0	1092.9	1106.6	1117.5	1136.6	1147.5
47.5°	14571.0	11073.7	2907.1	1412.6	1259.5	1068.3	1035.6	1030.0	997.2	994.6	991.8
50°	15284.1	11226.7	2582.0	1322.4	1199.5	1019.2	967.2	934.4	877.1	849.7	852.5
52.5°	15510.9	10622.9	2109.2	1232.3	1101.1	953.6	879.8	827.9	756.9	732.3	729.5
55°	15210.3	9439.8	1685.8	1123.0	964.5	866.1	784.1	715.9	658.5	628.4	628.4
57.5°	14475.4	7934.4	1333.3	994.6	819.7	767.7	685.8	617.5	568.3	538.2	532.8
60°	13256.7	6300.6	1054.6	841.5	699.5	661.2	576.5	532.8	489.0	453.6	445.4
62.5°	11407.0	4497.3	827.9	666.7	584.7	541.0	491.8	459.0	407.1	357.9	349.7
65°	8901.6	2751.3	639.3	489.0	470.0	448.1	418.0	388.0	325.1	275.9	267.7
67.5°	5614.7	1303.3	456.3	368.9	371.6	360.7	347.0	322.4	275.9	232.3	226.7
70°	2472.7	631.2	300.5	281.5	275.9	275.9	286.9	278.7	234.9	194.0	185.8
72.5°	841.5	338.8	224.1	213.1	199.5	196.7	240.5	232.3	188.5	150.3	142.1
75°	439.9	226.7	163.9	153.0	120.2	144.8	191.3	180.3	133.9	98.4	90.2
77.5°	286.9	161.2	112.0	98.4	68.3	95.6	142.1	125.7	79.2	49.2	43.7
80°	180.3	106.6	65.6	46.4	32.8	51.9	76.5	54.6	30.0	11.0	8.2
82.5°	95.6	54.6	24.6	16.4	13.6	16.4	19.2	13.6	5.4	0.0	0.0
85°	38.2	19.2	8.2	5.4	2.8	0.0	5.4	2.8	0.0	0.0	0.0
87.5°	13.6	2.8	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)