

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: P971337

Luminaire Tested: **NAV-SB6D-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971337
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-722-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 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: 40247.6 lumens
Efficiency: N/A
Efficacy: 91.5 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



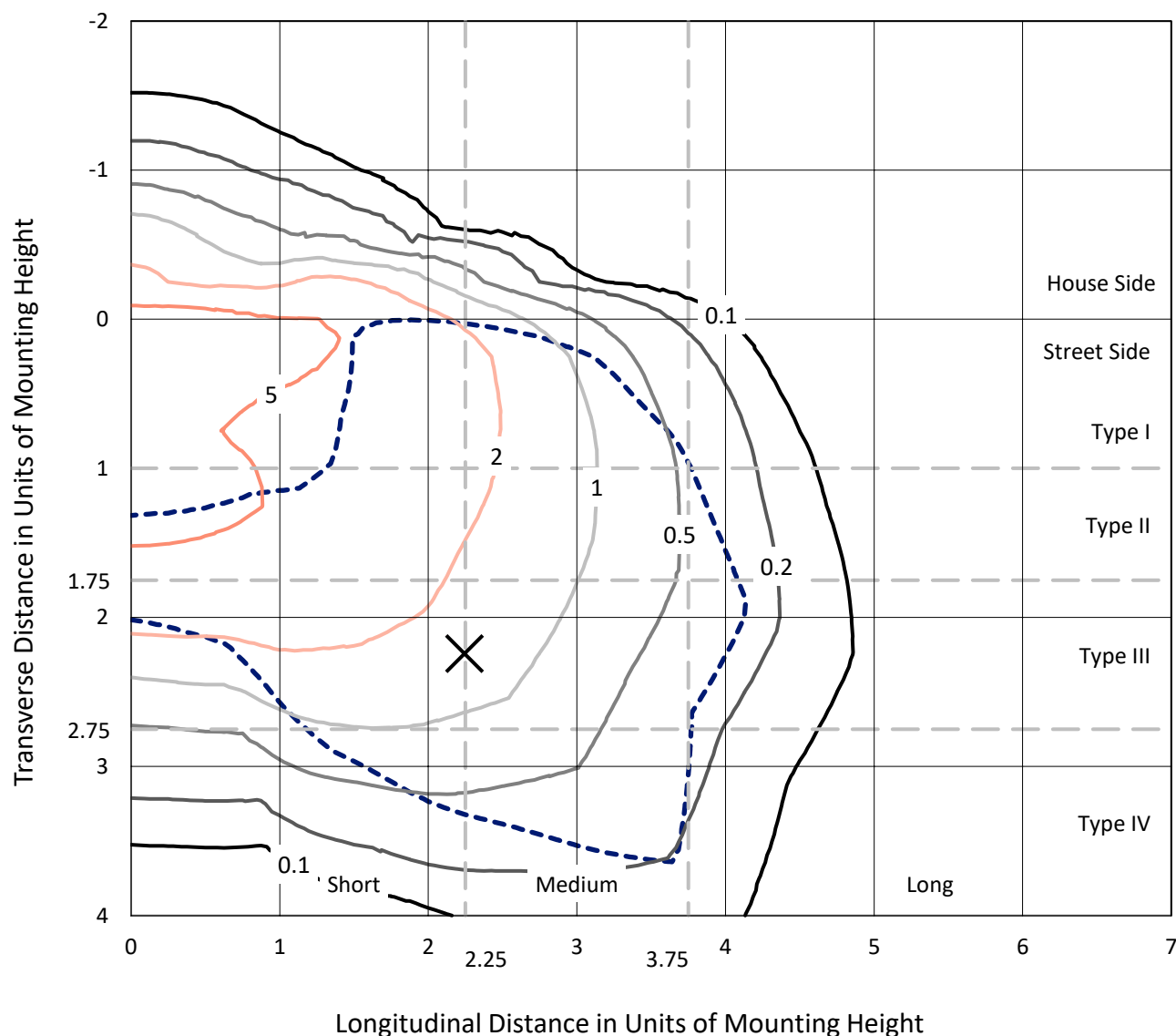
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

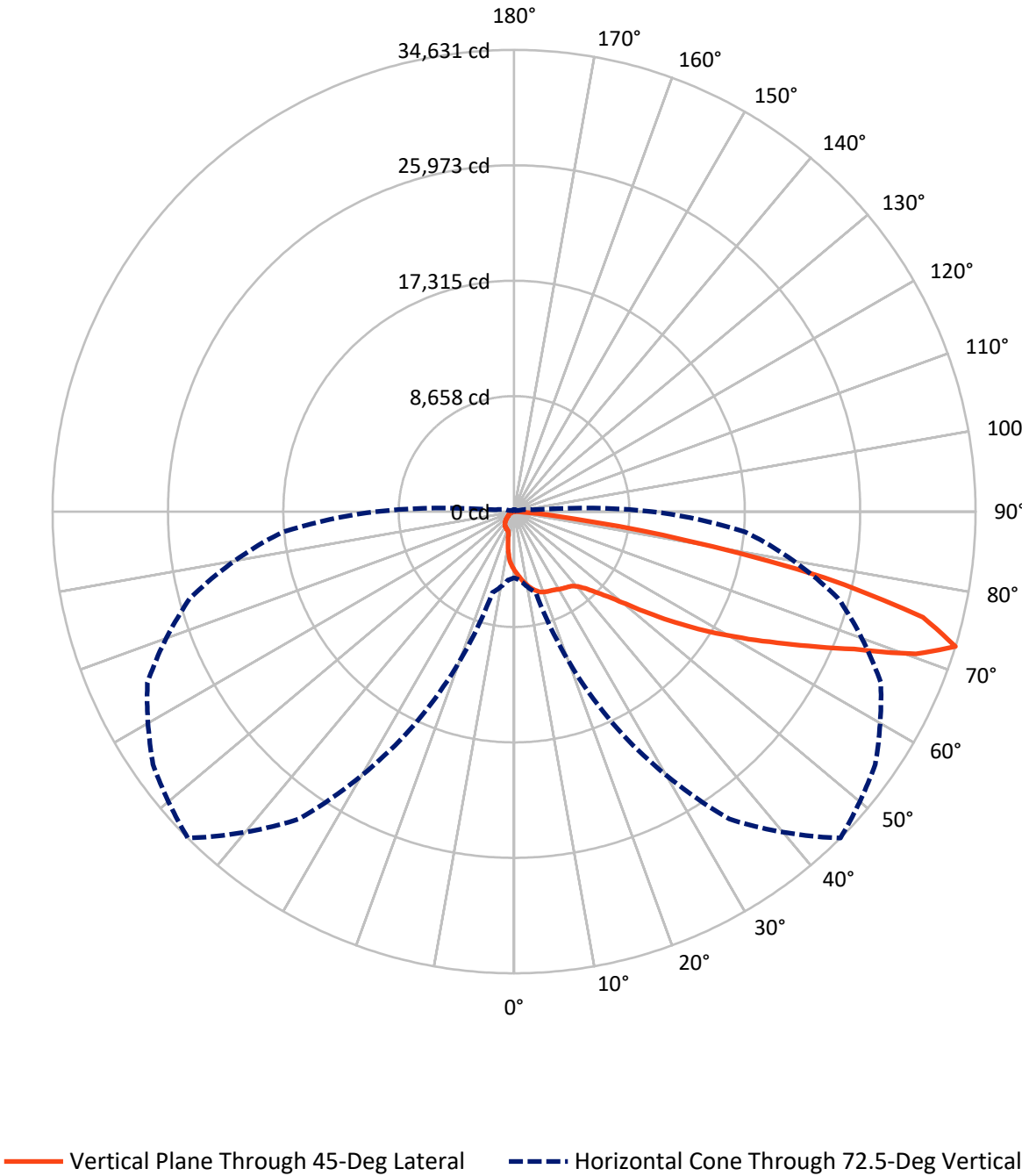


Based on 25 foot mounting height. Maximum calculated value = 9.7 fc

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	4228.9	0.0	4228.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	36018.7	0.0	36018.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	40247.6	0.0	40247.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.4	1.0
10°-20°	1214.1	3.0
20°-30°	1993.8	5.0
30°-40°	2827.7	7.0
40°-50°	4673.9	11.6
50°-60°	8396.1	20.9
60°-70°	11658.5	29.0
70°-80°	8456.7	21.0
80°-90°	611.4	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°	40247.6	100.0
0°-180°	40247.6	100.0

Coefficient of Utilization



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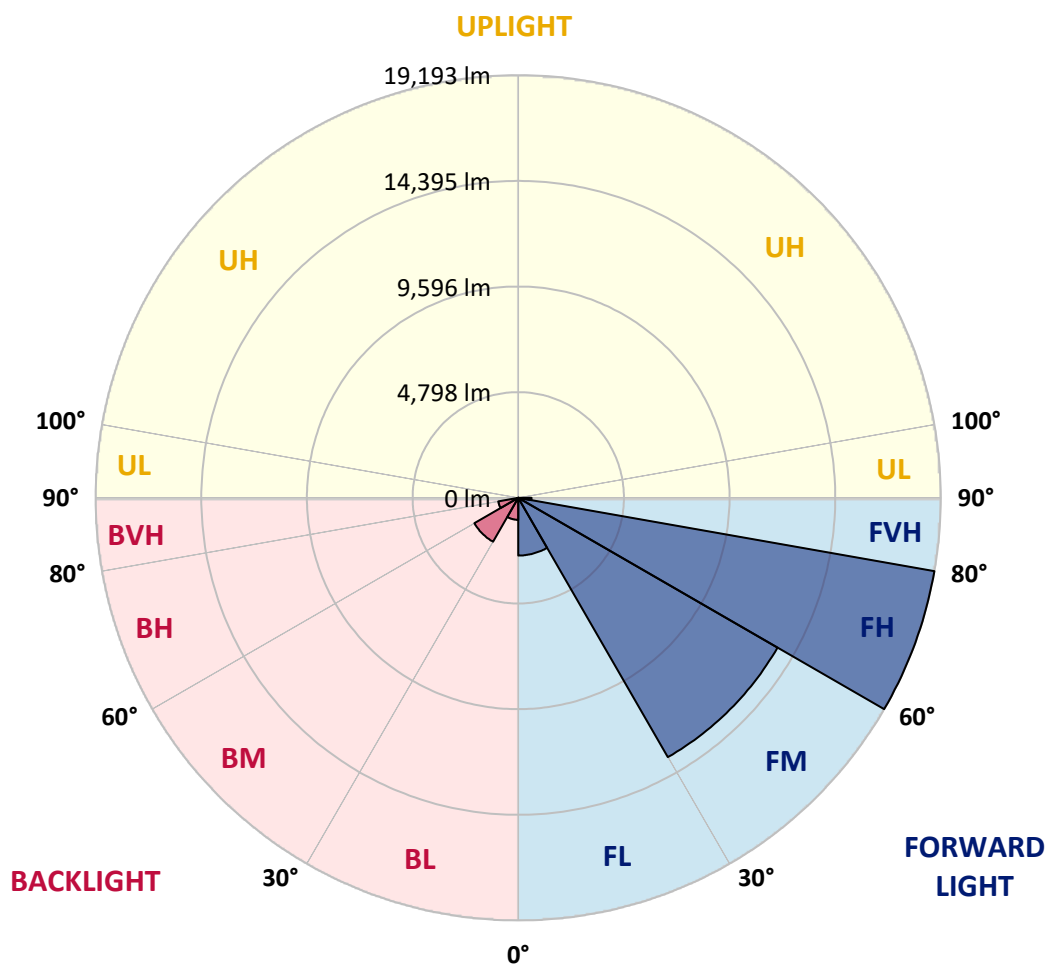
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2621.7	6.5			
FM	(30°-60°)	13597.8	33.8			
FH	(60°-80°)	19193.0	47.7			G5
FVH	(80°-90°)	606.2	1.5			G4/750
BL	(0°-30°)	1001.7	2.5	B3/2500		
BM	(30°-60°)	2299.9	5.7	B2/2500		
BH	(60°-80°)	922.2	2.3	B2/1000		G2/1000
BVH	(80°-90°)	5.1	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°	35°	45°	46°	55°	65°	75°	85°
0°	4409.2	4409.2	4409.2	4409.2	4409.2	4409.2	4409.2	4409.2	4409.2	4409.2	4409.2
2.5°	4815.8	4824.1	4818.5	4785.6	4730.7	4700.4	4683.9	4629.0	4593.2	4530.1	4464.2
5°	5258.0	5291.0	5271.8	5205.9	5101.5	5027.3	5005.4	4892.7	4791.1	4673.0	4535.6
7.5°	5727.9	5744.3	5708.6	5623.5	5483.3	5357.0	5337.8	5181.2	5019.1	4837.8	4650.9
10°	6134.4	6153.7	6098.7	5975.1	5815.7	5659.2	5631.7	5458.6	5266.3	5043.8	4804.8
12.5°	6475.1	6494.3	6422.9	6274.5	6098.7	5936.6	5909.1	5727.9	5516.3	5269.1	4972.4
15°	6733.3	6769.0	6672.9	6513.6	6324.0	6161.9	6148.2	5969.6	5763.6	5488.9	5173.0
17.5°	6884.4	6920.1	6829.5	6637.2	6475.1	6337.8	6321.3	6172.9	5980.6	5716.8	5368.0
20°	6909.1	6942.1	6846.0	6678.4	6543.8	6433.9	6425.6	6318.5	6178.4	5925.6	5579.5
22.5°	6835.0	6876.2	6788.3	6653.7	6560.2	6502.6	6491.5	6431.2	6351.5	6137.2	5777.3
25°	6758.0	6791.0	6725.1	6606.9	6557.5	6552.0	6560.2	6549.2	6532.7	6351.5	6008.0
27.5°	6752.6	6788.3	6714.1	6601.4	6573.9	6631.6	6640.0	6692.1	6705.9	6546.5	6230.6
30°	6799.2	6823.9	6752.6	6634.4	6620.7	6752.6	6755.3	6848.7	6870.7	6711.4	6450.3
32.5°	6900.9	6928.4	6856.9	6683.9	6664.7	6848.7	6856.9	6980.6	7016.3	6887.2	6681.2
35°	7139.9	7172.8	7090.4	6821.3	6752.6	6939.4	6964.1	7109.7	7181.2	7073.9	6920.1
37.5°	7736.1	7639.9	7527.3	7098.7	6953.1	7082.2	7123.4	7293.8	7420.1	7296.5	7205.9
40°	9216.8	8914.6	8563.0	7571.3	7304.8	7387.2	7420.1	7590.4	7763.6	7642.6	7598.7
42.5°	11439.2	11082.1	10516.2	8659.1	7834.9	7876.1	7900.9	8049.2	8293.7	8197.5	8208.5
45°	13419.9	13290.9	12713.9	10516.2	8826.7	8623.4	8653.6	8730.5	9090.4	9054.6	9126.1
47.5°	14941.8	14867.7	14422.7	12648.0	10502.5	9538.2	9623.3	9659.1	10178.2	10304.6	10496.9
50°	16112.2	16084.7	15686.4	14543.5	12692.0	10887.0	10917.3	10840.4	11617.8	11931.0	12296.3
52.5°	17216.5	17310.0	17016.0	16304.5	15029.8	12653.5	12648.0	12285.3	13334.7	13807.3	14430.9
55°	18213.7	18246.7	18277.0	18101.1	17381.3	14664.5	14612.2	14018.8	15326.5	15815.4	16491.3
57.5°	19150.6	19164.3	19433.5	19793.4	19829.1	16823.7	16727.6	16016.0	17502.3	17851.1	18266.0
60°	19779.6	19842.9	20411.5	21411.4	21848.3	19051.7	18999.5	18274.2	19716.5	19878.5	19801.7
62.5°	18873.1	19257.7	20691.7	22675.2	23754.8	21521.4	21496.6	20815.4	22046.1	21914.2	21254.9
65°	15277.0	15928.1	18450.0	23529.6	25625.6	24279.5	24315.3	23590.0	24438.9	24010.3	22436.2
67.5°	10686.5	11373.3	14356.8	23598.3	27716.2	27518.5	27724.5	26587.2	26980.0	26018.5	22716.4
70°	7389.9	7744.3	9686.6	22120.2	29345.3	31979.9	31974.4	30268.4	29507.4	26933.3	21287.8
72.5°	4969.6	5153.7	6291.0	17548.9	28147.5	34630.9	34471.6	33081.5	30359.1	25188.9	17392.4
75°	2096.1	2230.7	2912.0	9862.3	22268.6	31683.2	31251.8	29235.5	26974.5	19834.6	10851.4
77.5°	664.8	722.5	1148.3	3530.1	12266.2	23815.3	23359.2	18257.7	18079.2	9950.3	3967.0
80°	315.9	368.1	645.5	1417.6	4826.8	12952.9	12889.8	8282.7	7777.3	2686.7	796.6
82.5°	137.4	162.1	357.1	758.2	2159.3	4620.7	4714.2	2818.6	2332.4	1019.2	244.5
85°	44.0	57.7	164.8	348.9	912.0	1148.3	1134.6	670.3	939.5	554.9	85.2
87.5°	0.0	0.0	54.9	79.6	93.4	65.9	74.2	57.7	261.0	153.9	30.2
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°	4409.2	4409.2	4409.2	4409.2	4409.2	4409.2	4409.2	4409.2	4409.2	4409.2	4409.2
2.5°	4431.2	4387.2	4310.3	4238.9	4175.7	4112.5	4074.1	4019.1	4013.6	4013.6	4027.3
5°	4461.4	4390.0	4252.6	4107.1	3939.5	3780.1	3620.8	3467.0	3417.5	3381.8	3398.3
7.5°	4549.4	4436.7	4219.6	3942.2	3623.5	3274.7	3030.1	2766.4	2664.8	2609.9	2618.1
10°	4675.7	4521.9	4192.1	3706.0	3189.5	2714.2	2365.3	2079.6	1969.7	1923.0	1923.0
12.5°	4815.8	4626.2	4142.7	3412.0	2714.2	2145.5	1804.9	1673.0	1656.5	1656.5	1656.5
15°	4983.3	4752.6	4057.6	3065.9	2217.0	1697.7	1576.9	1582.4	1598.9	1609.9	1609.9
17.5°	5156.5	4887.2	3923.0	2678.5	1777.5	1527.5	1530.2	1538.4	1552.2	1563.1	1563.1
20°	5343.2	5021.9	3744.4	2266.4	1524.7	1477.9	1486.2	1494.4	1505.4	1511.0	1513.7
22.5°	5543.8	5148.2	3532.9	1862.6	1439.5	1436.7	1439.5	1447.7	1461.5	1461.5	1467.0
25°	5758.0	5288.3	3291.1	1568.7	1395.5	1395.5	1401.1	1406.5	1417.6	1417.6	1420.2
27.5°	5977.9	5417.4	3035.6	1414.8	1357.1	1354.3	1354.3	1362.6	1368.1	1370.8	1373.6
30°	6219.6	5568.5	2780.1	1381.8	1326.9	1313.1	1304.9	1310.4	1315.9	1318.7	1324.1
32.5°	6466.8	5714.2	2552.1	1395.5	1296.6	1271.9	1244.5	1239.0	1239.0	1250.0	1258.2
35°	6741.5	5873.5	2376.3	1442.3	1280.2	1211.6	1167.6	1142.9	1145.5	1162.0	1170.3
37.5°	7071.3	6065.7	2247.2	1483.5	1269.2	1142.9	1071.4	1041.2	1021.9	1041.2	1035.7
40°	7502.5	6348.7	2153.8	1516.5	1255.4	1063.1	967.0	917.6	881.8	892.9	887.3
42.5°	8137.2	6793.8	2118.1	1519.2	1225.3	969.8	859.9	794.0	741.7	744.5	733.5
45°	9027.2	7497.1	2302.1	1483.5	1159.3	868.1	747.2	659.3	626.4	618.1	607.1
47.5°	10246.9	8521.7	2727.9	1409.3	1063.1	769.2	637.3	563.1	538.4	524.7	516.5
50°	11881.5	9837.6	3200.5	1326.9	967.0	675.8	546.7	500.0	483.5	469.8	467.0
52.5°	13777.1	11172.8	3587.8	1244.5	870.8	593.4	489.0	461.6	447.8	436.8	434.1
55°	15516.0	12093.1	3565.9	1156.6	777.5	527.5	447.8	431.3	414.8	403.8	398.3
57.5°	16598.4	12222.2	2939.5	1060.4	670.3	475.3	409.3	398.3	379.1	365.4	362.6
60°	17095.7	11485.9	2060.4	934.1	563.1	425.8	368.1	362.6	337.9	318.7	313.1
62.5°	17186.3	10117.9	1373.6	777.5	469.8	379.1	326.9	318.7	285.7	252.8	236.3
65°	16818.2	8161.9	950.5	607.1	401.1	329.6	280.2	263.7	228.1	195.1	184.1
67.5°	15653.4	5730.6	662.0	436.8	340.6	261.0	222.5	217.0	189.5	162.1	153.9
70°	13518.8	3266.4	442.3	326.9	269.3	178.6	175.8	181.3	153.9	131.8	120.8
72.5°	10365.1	1494.4	274.7	239.0	184.1	120.8	140.1	142.9	118.1	98.9	87.9
75°	6101.5	640.1	173.1	153.9	93.4	79.6	101.7	104.3	79.6	63.1	54.9
77.5°	2076.9	241.8	109.9	90.6	46.7	44.0	65.9	65.9	44.0	24.7	19.3
80°	472.5	90.6	54.9	35.7	21.9	19.3	21.9	19.3	11.0	2.8	0.0
82.5°	134.6	35.7	21.9	13.7	8.2	8.2	2.8	0.0	0.0	0.0	0.0
85°	38.4	16.5	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.5	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)