

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: P885330

Luminaire Tested: **NAV-SB6C-760-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-760-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37106 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

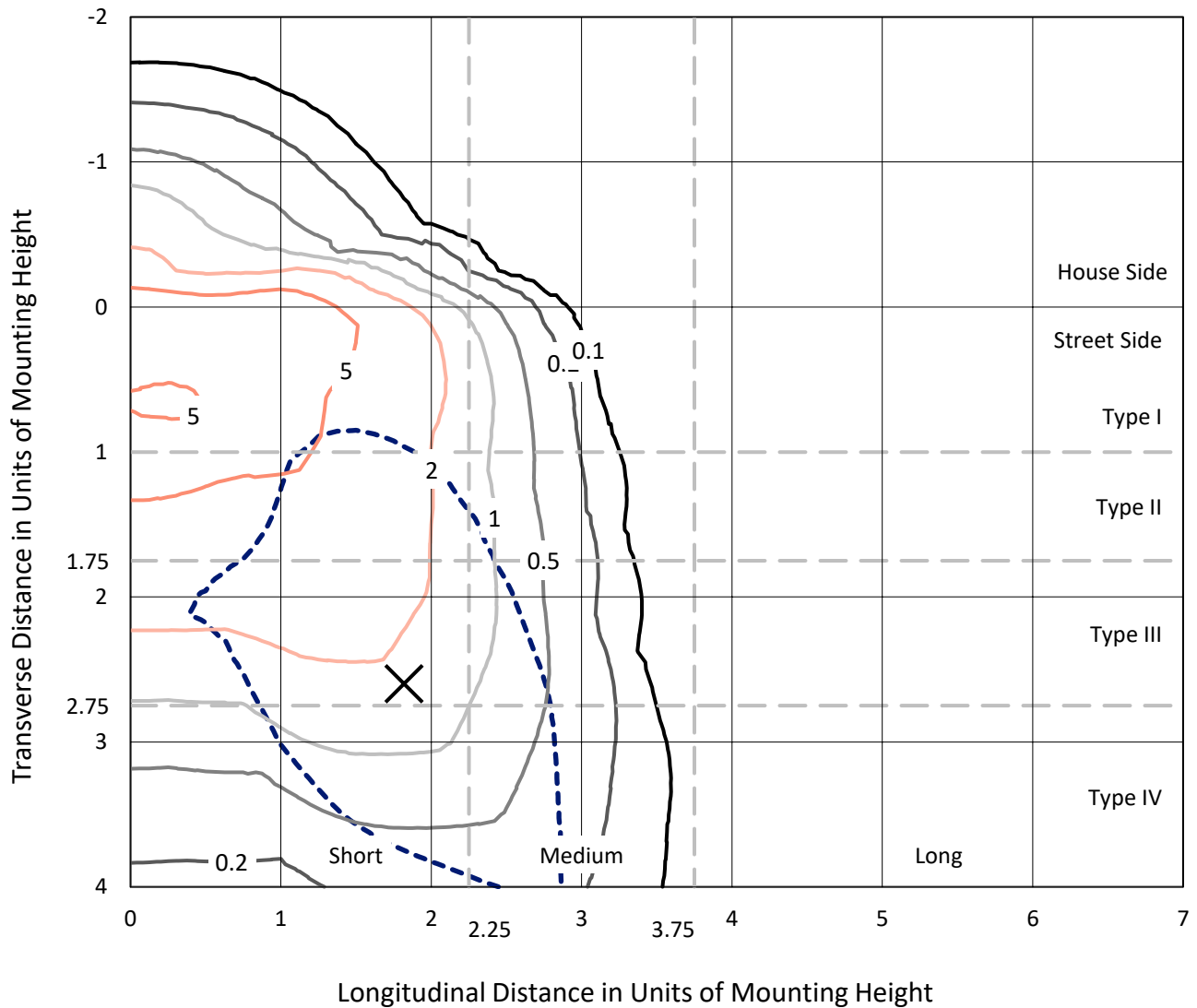
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

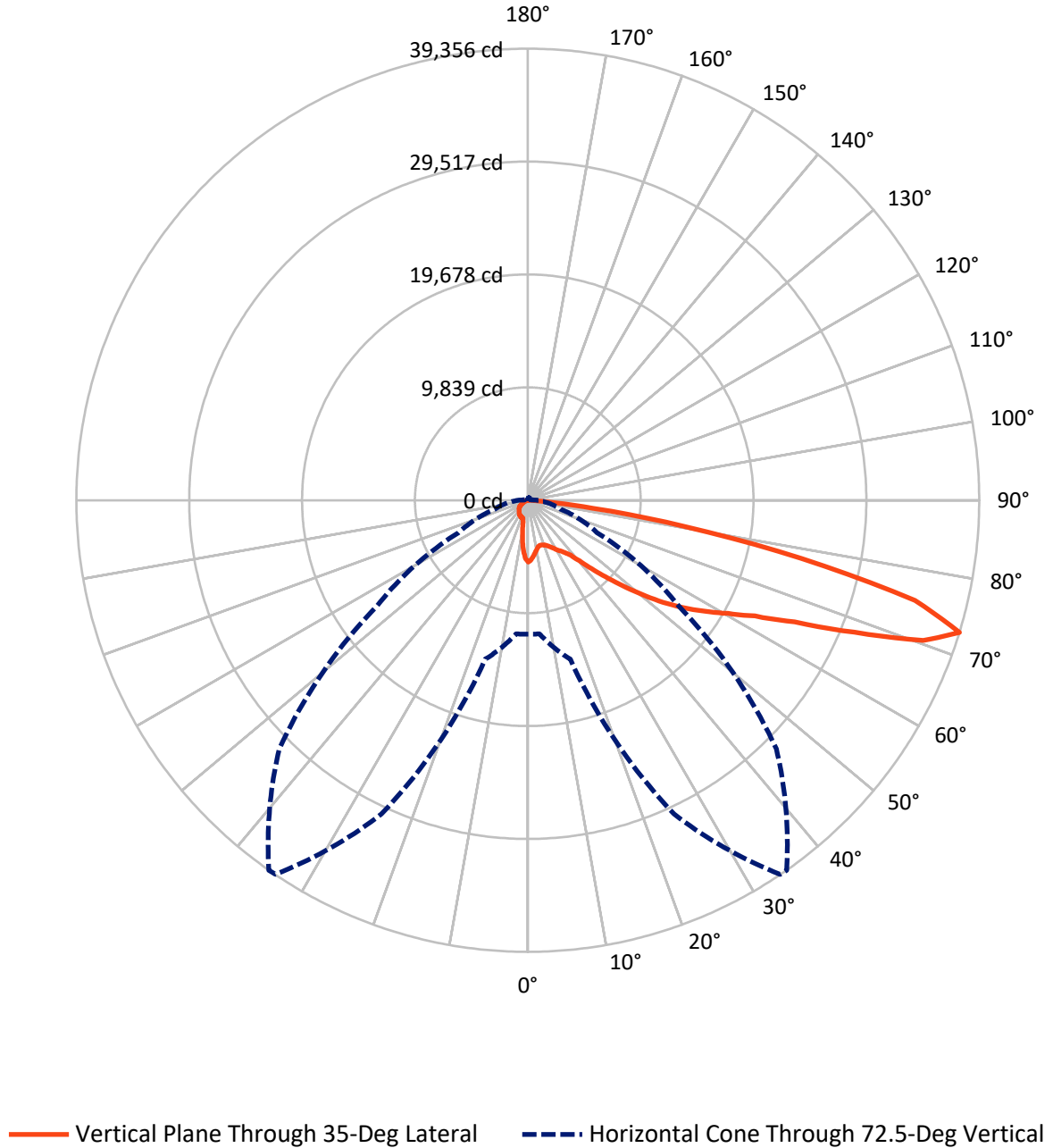
✕ Max cd
 - - - 1/2 Max cd



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	4176.1	0.0	4176.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	32929.9	0.0	32929.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	37106.0	0.0	37106.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.9	1.2
10°-20°	1033.8	2.8
20°-30°	1679.4	4.5
30°-40°	2802.1	7.6
40°-50°	5301.6	14.3
50°-60°	8424.2	22.7
60°-70°	10421.4	28.1
70°-80°	6478.0	17.5
80°-90°	523.5	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°	37106.0	100.0
0°-180°	37106.0	100.0

Coefficient of Utilization



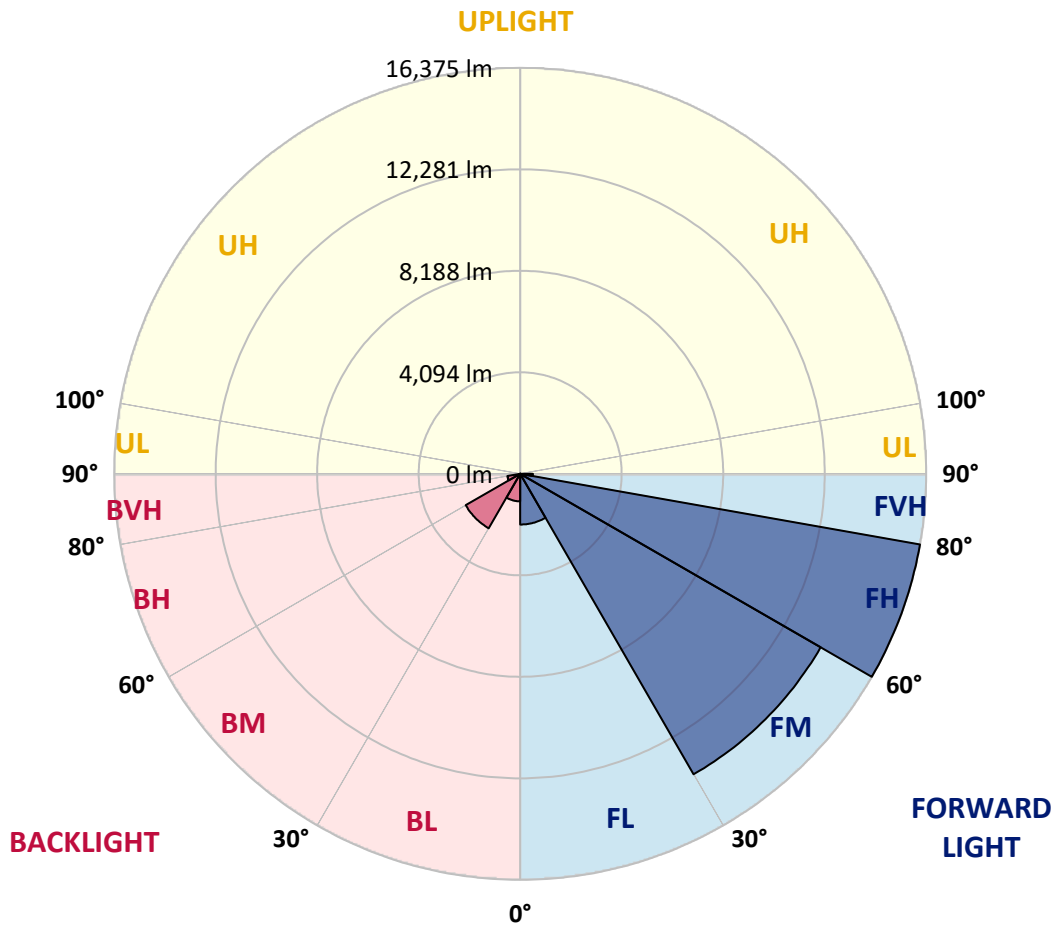
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2045.5	5.5			
FM (30°-60°)	13992.7	37.7			
FH (60°-80°)	16375.3	44.1			G5
FVH (80°-90°)	516.4	1.4			G4/750
BL (0°-30°)	1109.7	3.0	B3/2500		
BM (30°-60°)	2535.3	6.8	B3/5000		
BH (60°-80°)	524.0	1.4	B2/1000		G2/1000
BVH (80°-90°)	7.1	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°	34°	35°	45°	55°	65°	75°	85°
0°	5377.9	5377.9	5377.9	5377.9	5377.9	5377.9	5377.9	5377.9	5377.9	5377.9	5377.9
2.5°	5138.6	5182.1	5190.3	5203.9	5203.9	5220.2	5247.4	5285.5	5348.0	5380.6	5402.4
5°	4736.3	4768.9	4809.7	4842.3	4904.8	4913.0	5019.0	5122.3	5266.4	5375.2	5451.3
7.5°	4331.1	4369.2	4423.6	4502.4	4584.0	4608.5	4768.9	4942.9	5171.3	5375.2	5503.0
10°	4045.7	4048.4	4097.3	4176.2	4306.7	4336.6	4532.3	4779.8	5065.2	5342.6	5551.9
12.5°	3885.2	3904.3	3926.0	3985.8	4110.9	4129.9	4339.3	4630.2	4959.2	5323.5	5609.0
15°	3885.2	3898.8	3912.4	3942.3	4042.9	4059.3	4244.1	4535.1	4904.8	5331.7	5701.4
17.5°	3926.0	3947.8	3936.9	3972.3	4078.3	4089.2	4252.3	4507.9	4902.1	5383.3	5842.8
20°	4023.9	4040.2	4018.5	4040.2	4146.3	4168.0	4336.6	4559.5	4948.3	5473.1	6019.6
22.5°	4178.9	4187.0	4135.4	4151.7	4260.5	4287.6	4483.4	4706.3	5059.8	5617.2	6256.1
25°	4374.6	4391.0	4312.1	4331.1	4434.5	4467.1	4692.8	4926.6	5236.5	5815.6	6557.9
27.5°	4600.3	4608.5	4540.5	4537.8	4671.0	4717.2	4945.6	5198.5	5473.1	6065.8	6938.5
30°	4858.6	4883.1	4817.8	4806.9	4975.5	5013.6	5239.2	5532.9	5821.1	6441.0	7479.6
32.5°	5062.5	5081.5	5043.5	5070.7	5242.0	5271.9	5595.4	6006.0	6367.6	6973.9	8216.4
35°	5356.2	5367.0	5280.0	5329.0	5524.7	5600.8	6082.1	6669.4	7055.4	7642.7	9178.9
37.5°	6419.2	6419.2	6049.5	5807.5	5995.1	6063.1	6748.2	7504.1	7903.7	8539.9	10391.5
40°	7890.1	7865.7	7324.6	6829.8	6805.3	6938.5	7697.1	8556.2	8999.4	9616.6	11756.3
42.5°	9458.9	9420.8	8684.0	8194.6	8113.1	8159.3	8792.8	9853.1	10304.5	10929.8	13224.5
45°	10851.0	10840.1	10165.8	9507.9	9361.0	9507.9	10160.4	11370.3	11693.8	12351.8	14690.0
47.5°	12017.4	12017.4	11525.2	11095.7	11019.5	11106.5	12011.9	13053.2	13023.3	13866.2	16117.4
50°	13360.5	13349.6	12882.0	12697.1	12775.9	12898.3	14143.5	14825.9	14399.1	15353.4	17392.5
52.5°	14301.2	14366.5	14206.0	14176.1	14578.5	14790.6	16307.7	16560.6	15630.7	16764.5	18346.9
55°	15046.2	15122.3	15307.2	15516.5	16291.4	16568.7	18404.0	18205.5	16661.2	17988.0	18896.1
57.5°	16101.1	15992.3	16277.8	16691.1	17944.5	18278.9	20434.9	19757.9	17490.4	18980.4	18955.9
60°	17381.7	17398.0	17446.9	17968.9	19594.8	20024.4	22436.0	21226.1	18023.3	19589.4	18292.5
62.5°	18920.5	18945.0	19045.6	19847.7	21810.7	22215.8	24567.6	22427.9	18268.0	19418.1	16579.6
65°	18814.5	18917.8	20040.7	22784.0	25179.4	25579.0	27055.4	23270.7	17898.3	17852.0	13499.1
67.5°	17139.7	17308.3	19187.0	26291.4	30258.2	30704.1	30062.4	23436.6	16302.3	13882.5	8806.4
70°	14942.9	15002.7	17262.0	29445.2	36139.1	36590.4	32754.1	21612.2	12370.8	7743.3	3945.1
72.5°	11669.3	11682.9	14333.8	30176.6	39331.0	39355.5	30641.5	16044.0	6653.0	2974.4	1370.3
75°	8336.0	8254.5	9600.3	24472.5	34602.9	34880.2	22971.6	7525.8	2542.1	1405.7	682.4
77.5°	4469.8	4559.5	5432.3	14513.3	23904.2	24377.3	12533.9	2169.6	1294.2	957.0	451.3
80°	1381.2	1457.3	2226.7	6644.9	13539.9	13825.4	4646.5	965.2	902.7	682.4	296.4
82.5°	435.0	451.3	1038.6	2792.3	5619.9	5750.4	1345.8	546.5	617.2	451.3	174.0
85°	125.1	127.8	462.2	1041.3	1389.3	1416.5	377.9	212.1	353.5	280.0	89.7
87.5°	13.6	43.5	174.0	174.0	122.3	119.6	40.8	46.2	100.6	35.3	16.3
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°	5377.9	5377.9	5377.9	5377.9	5377.9	5377.9	5377.9	5377.9	5377.9	5377.9	5377.9
2.5°	5388.8	5391.5	5356.2	5296.3	5231.1	5176.7	5108.7	5054.4	5016.3	5005.4	5024.5
5°	5426.8	5407.8	5307.2	5125.0	4907.5	4719.9	4510.6	4344.7	4236.0	4189.8	4206.1
7.5°	5483.9	5429.6	5209.3	4850.4	4434.5	4064.7	3689.5	3398.6	3213.7	3121.3	3134.8
10°	5532.9	5424.1	5046.2	4453.5	3817.3	3257.2	2751.5	2400.8	2205.0	2112.6	2115.3
12.5°	5579.1	5421.4	4834.1	3983.1	3121.3	2436.1	1965.7	1791.7	1737.4	1718.3	1712.9
15°	5666.1	5429.6	4567.7	3444.8	2427.9	1840.7	1669.4	1666.7	1677.5	1672.1	1669.4
17.5°	5785.7	5437.7	4265.9	2873.8	1873.3	1623.2	1615.0	1639.5	1655.8	1647.6	1644.9
20°	5940.7	5470.3	3945.1	2308.3	1609.6	1568.8	1587.8	1609.6	1623.2	1609.6	1606.8
22.5°	6158.2	5527.4	3594.3	1854.3	1525.3	1536.2	1552.5	1576.9	1590.5	1571.5	1568.8
25°	6424.7	5617.2	3249.0	1612.3	1484.5	1498.1	1522.6	1549.7	1566.1	1547.0	1544.3
27.5°	6770.0	5761.3	2930.9	1557.9	1443.7	1451.9	1487.2	1528.0	1549.7	1525.3	1525.3
30°	7270.2	5997.8	2656.3	1582.4	1419.2	1400.2	1449.2	1506.2	1530.7	1509.0	1506.2
32.5°	7933.6	6332.2	2487.8	1620.4	1408.4	1340.4	1386.6	1460.0	1500.8	1487.2	1487.2
35°	8803.7	6840.6	2422.5	1663.9	1400.2	1277.9	1310.5	1389.3	1460.0	1473.6	1473.6
37.5°	9858.6	7547.6	2441.5	1683.0	1375.7	1226.2	1242.5	1310.5	1402.9	1446.4	1457.3
40°	11057.6	8371.4	2550.3	1663.9	1348.6	1182.7	1185.4	1237.1	1318.6	1383.9	1405.7
42.5°	12294.7	9333.8	2751.5	1593.3	1324.1	1144.6	1136.5	1171.8	1226.2	1272.4	1291.5
45°	13471.9	10323.5	2950.0	1495.4	1294.2	1106.6	1087.5	1101.1	1112.0	1131.0	1141.9
47.5°	14499.7	11019.5	2892.9	1405.7	1253.4	1063.1	1030.4	1025.0	992.4	989.7	986.9
50°	15209.3	11171.8	2569.3	1315.9	1193.6	1014.1	962.5	929.8	872.8	845.6	848.3
52.5°	15435.0	10570.9	2099.0	1226.2	1095.7	948.9	875.5	823.8	753.1	728.7	725.9
55°	15135.9	9393.7	1677.5	1117.5	959.8	861.9	780.3	712.3	655.2	625.3	625.3
57.5°	14404.5	7895.6	1326.8	989.7	815.7	764.0	682.4	614.5	565.5	535.6	530.2
60°	13191.9	6269.7	1049.5	837.4	696.0	658.0	573.7	530.2	486.7	451.3	443.2
62.5°	11351.2	4475.2	823.8	663.4	581.8	538.3	489.4	456.8	405.1	356.2	348.0
65°	8858.0	2737.9	636.2	486.7	467.6	445.9	416.0	386.1	323.5	274.6	266.4
67.5°	5587.3	1296.9	454.0	367.0	369.8	358.9	345.3	320.8	274.6	231.1	225.7
70°	2460.6	628.1	299.1	280.0	274.6	274.6	285.5	277.3	233.8	193.0	184.9
72.5°	837.4	337.1	222.9	212.1	198.5	195.8	239.3	231.1	187.6	149.5	141.4
75°	437.7	225.7	163.1	152.3	119.6	144.1	190.3	179.4	133.2	97.9	89.7
77.5°	285.5	160.4	111.5	97.9	68.0	95.2	141.4	125.1	78.8	48.9	43.5
80°	179.4	106.0	65.3	46.2	32.6	51.7	76.1	54.4	29.9	10.9	8.2
82.5°	95.2	54.4	24.5	16.3	13.6	16.3	19.0	13.6	5.4	0.0	0.0
85°	38.1	19.0	8.2	5.4	2.7	0.0	5.4	2.7	0.0	0.0	0.0
87.5°	13.6	2.7	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)