

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: P885126

Luminaire Tested: **NAV-SB6B-735-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-735-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24958 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

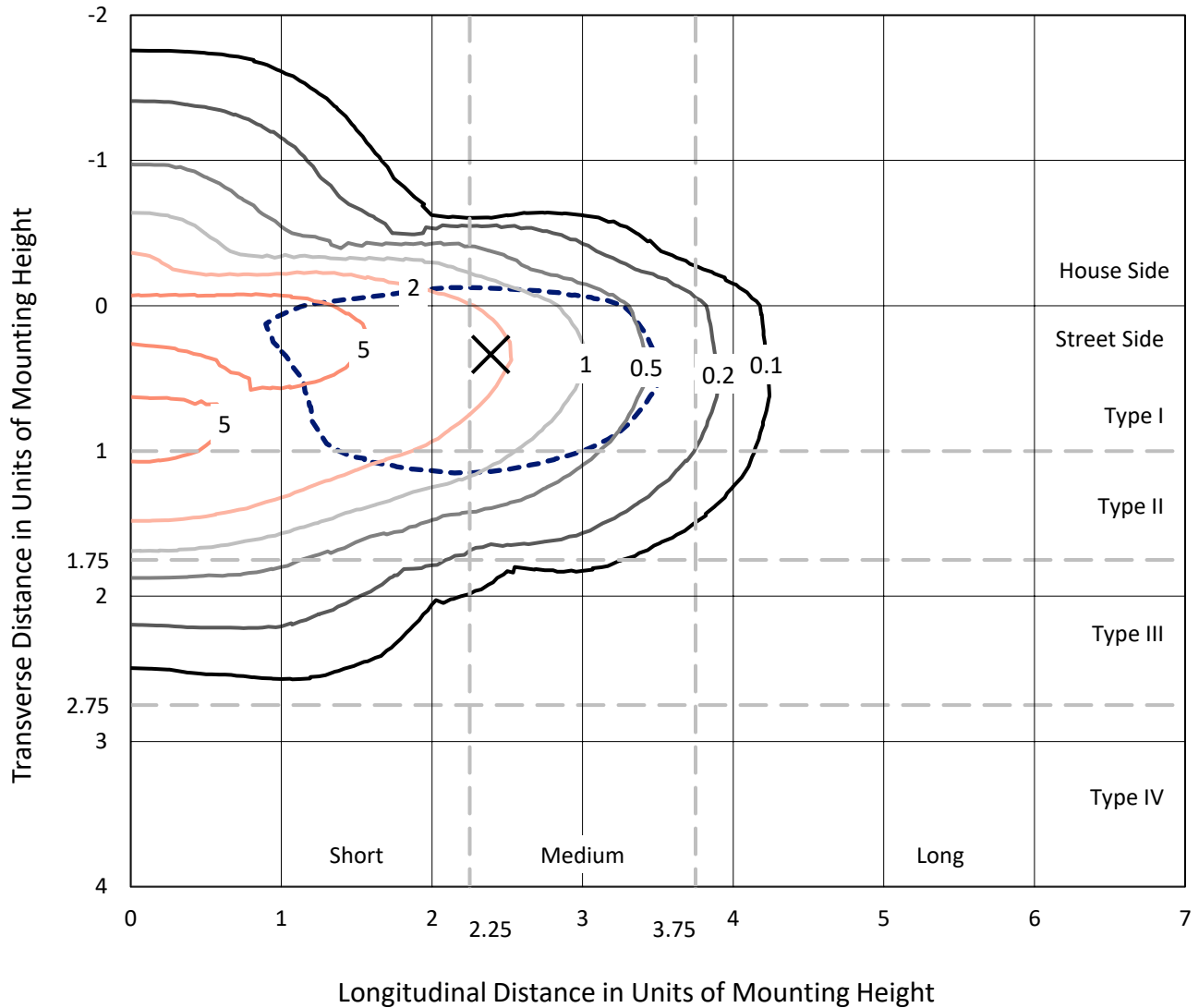
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

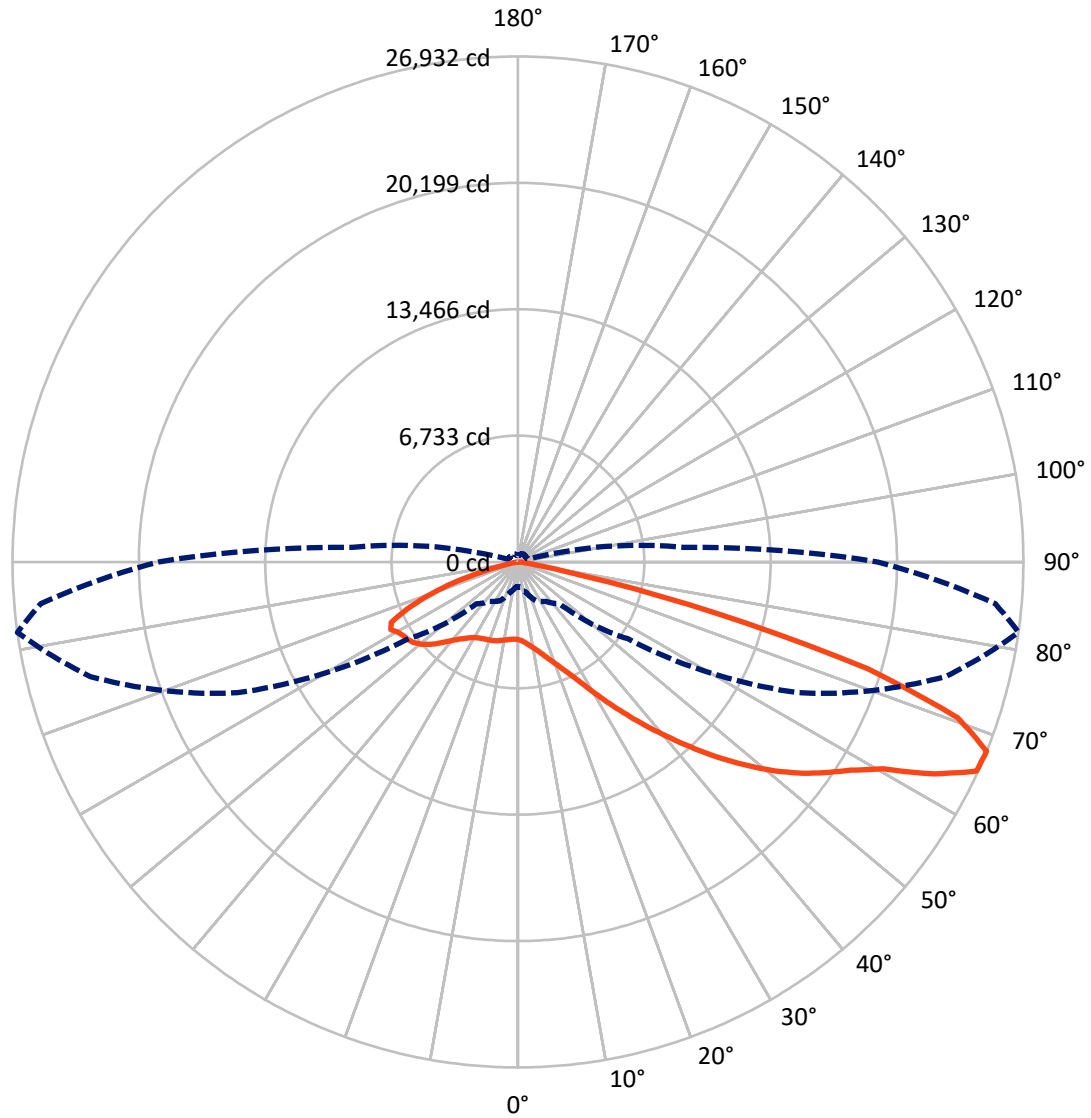
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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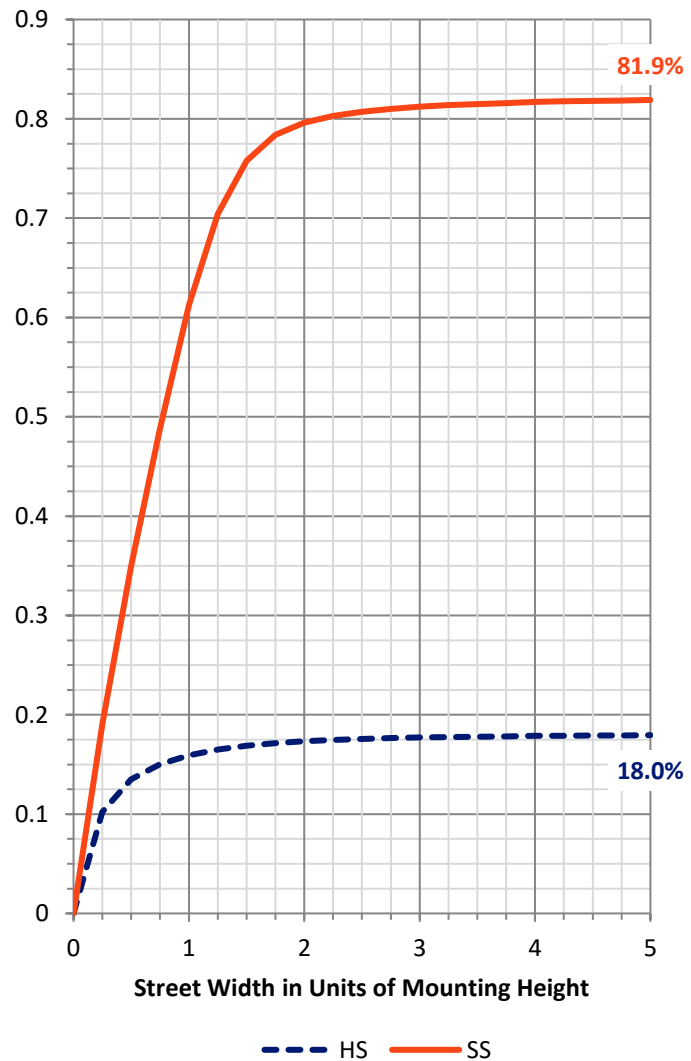
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4520.9	0.0	4520.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	20437.1	0.0	20437.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	24958.0	0.0	24958.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.4	1.5
10°-20°	957.2	3.8
20°-30°	1533.2	6.1
30°-40°	2711.2	10.9
40°-50°	4750.2	19.0
50°-60°	6335.5	25.4
60°-70°	5898.0	23.6
70°-80°	2263.7	9.1
80°-90°	140.6	0.6
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°	24958.0	100.0
0°-180°	24958.0	100.0



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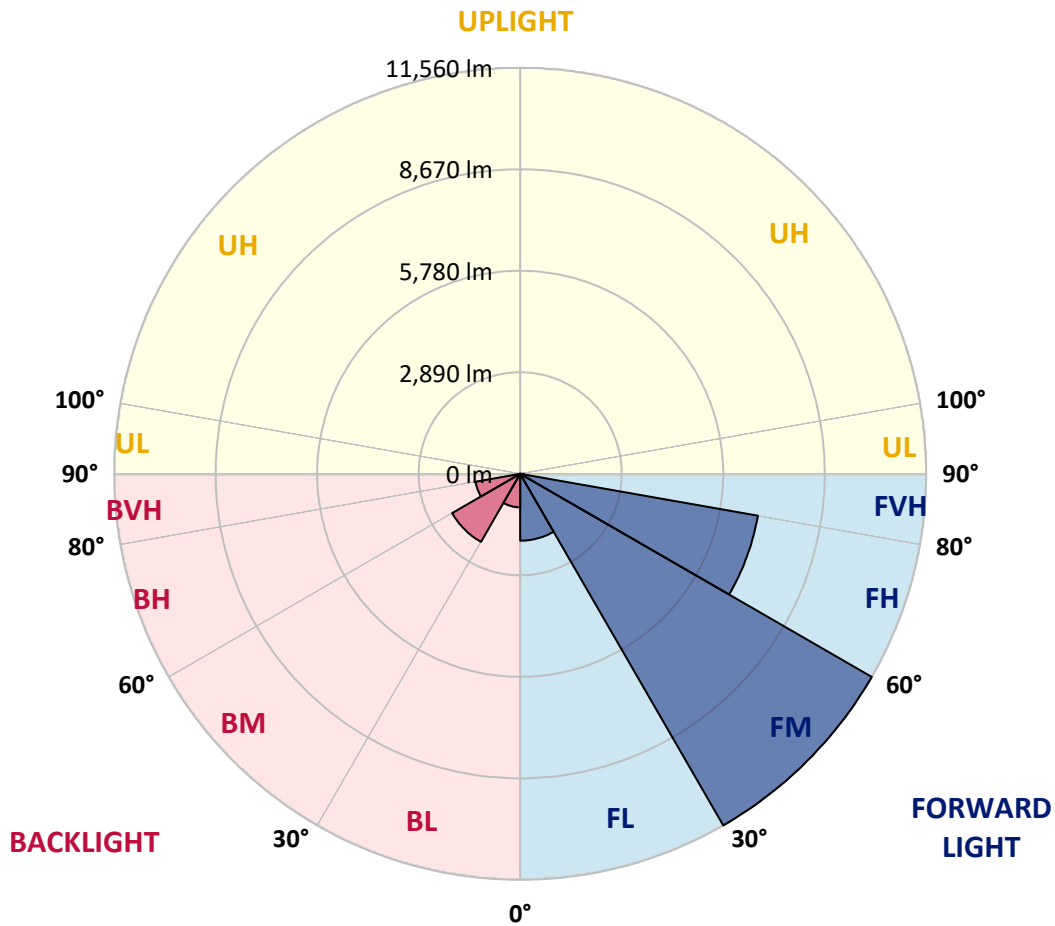
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1904.0	7.6			
FM (30°-60°)	11559.5	46.3			
FH (60°-80°)	6871.3	27.5			G3/7500
FVH (80°-90°)	102.2	0.4			G2/225
BL (0°-30°)	954.8	3.8	B2/1000		
BM (30°-60°)	2237.4	9.0	B2/2500		
BH (60°-80°)	1290.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	38.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7
2.5°	4370.1	4395.2	4380.9	4373.7	4361.1	4343.1	4328.8	4283.8	4237.1	4206.6	4195.8
5°	4458.1	4483.3	4481.5	4488.7	4497.7	4503.1	4499.5	4449.2	4382.7	4330.6	4300.0
7.5°	4382.7	4411.4	4434.8	4470.7	4533.6	4600.1	4632.4	4621.7	4553.4	4481.5	4443.8
10°	4168.8	4199.4	4255.1	4339.5	4472.5	4616.3	4736.7	4792.4	4749.2	4670.2	4618.1
12.5°	3777.1	3807.7	3917.3	4100.6	4323.4	4573.1	4803.1	4952.3	4963.1	4884.0	4822.9
15°	3336.9	3367.4	3484.2	3714.2	4053.8	4454.5	4839.1	5121.2	5216.4	5148.2	5074.5
17.5°	3063.7	3090.7	3178.7	3363.8	3717.8	4217.4	4826.5	5300.9	5518.3	5464.4	5376.4
20°	2981.1	3004.4	3045.8	3175.1	3469.8	3971.2	4743.8	5469.8	5843.6	5813.0	5714.2
22.5°	3069.1	3090.7	3103.3	3160.8	3345.9	3809.5	4639.6	5642.3	6220.9	6224.5	6104.1
25°	3272.2	3293.7	3279.4	3315.3	3396.2	3759.1	4600.1	5845.4	6695.3	6734.8	6598.3
27.5°	3606.4	3608.2	3574.1	3572.3	3584.8	3834.6	4641.4	6062.8	7293.7	7367.3	7198.4
30°	4276.7	4249.7	4118.5	3976.6	3911.9	4061.0	4756.4	6319.7	7999.9	8131.0	7919.0
32.5°	5309.9	5270.3	5029.6	4689.9	4348.5	4425.8	4963.1	6612.6	8768.9	9006.1	8747.4
35°	6431.2	6420.4	6168.8	5663.9	5067.3	4945.1	5299.1	6997.2	9608.1	9985.4	9678.2
37.5°	7473.4	7468.0	7324.2	6729.4	6003.5	5669.3	5838.2	7500.3	10506.5	11052.8	10689.8
40°	8425.7	8441.9	8298.1	7766.3	7034.9	6598.3	6571.3	8122.0	11505.6	12215.4	11784.2
42.5°	9248.7	9266.7	9121.1	8727.6	8053.8	7626.1	7471.6	8883.9	12481.4	13464.3	12953.9
45°	9807.5	9919.0	9897.4	9582.9	9099.6	8655.7	8553.3	9839.9	13593.6	14788.6	14190.2
47.5°	9965.7	10068.1	10229.8	10272.9	9978.3	9541.6	9663.8	10991.7	14718.5	16114.7	15433.7
50°	9575.7	9671.0	10007.0	10454.4	10659.3	10524.5	10743.7	12226.2	15870.3	17437.2	16653.8
52.5°	8806.7	8903.7	9327.8	10035.8	10871.3	11295.4	11827.3	13442.7	16986.2	18689.7	17809.2
55°	7694.4	7796.8	8341.3	9142.7	10467.0	11613.4	12731.1	14657.4	18008.7	19816.4	18851.4
57.5°	6181.4	6256.8	6822.9	7944.2	9450.0	11297.2	13397.8	15983.5	18971.8	20923.3	19884.6
60°	4028.7	4095.2	4752.8	6003.5	7764.5	10240.6	13530.8	17462.4	20251.2	22362.6	21277.2
62.5°	2679.2	2724.1	3114.0	4032.3	5468.0	8211.9	12752.7	18643.0	22127.2	24867.5	23665.3
65°	1838.2	1883.2	2273.1	2912.8	3532.7	5432.1	10515.5	18486.6	23827.1	26856.7	25435.3
67.5°	1311.7	1349.5	1680.1	2283.9	2557.0	3155.4	7128.4	16488.5	23582.7	26932.1	25530.5
70°	939.8	961.3	1234.5	1778.9	2032.3	1895.7	3964.0	12610.7	20648.3	24869.3	23586.3
72.5°	657.7	664.9	857.1	1354.9	1637.0	1383.6	1886.8	8407.8	15617.0	19519.9	18285.4
75°	445.6	454.6	576.8	993.7	1313.5	1056.6	999.1	4508.5	9167.8	10804.8	9685.4
77.5°	273.1	276.7	372.0	679.2	982.9	805.0	643.3	1910.1	3547.1	3482.4	2968.5
80°	154.5	154.5	237.2	422.3	670.2	519.3	451.0	812.2	1123.1	986.5	869.7
82.5°	86.3	88.0	172.5	262.3	443.8	307.3	248.0	375.6	485.2	429.5	373.8
85°	35.9	39.5	106.0	124.0	212.0	152.7	100.6	158.1	179.7	159.9	116.8
87.5°	3.6	5.4	32.3	23.4	25.2	30.5	14.4	30.5	25.2	25.2	18.0
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°	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7
2.5°	4161.6	4134.7	4066.4	3987.3	3883.1	3832.8	3764.5	3717.8	3678.3	3681.9	3645.9
5°	4242.5	4174.2	4021.5	3831.0	3593.8	3424.9	3245.2	3121.2	3020.6	2999.0	2950.5
7.5°	4353.9	4246.1	3978.4	3635.2	3234.4	2930.8	2659.4	2485.1	2361.1	2321.6	2282.1
10°	4497.7	4341.3	3922.7	3389.0	2812.2	2425.8	2134.7	1998.2	1913.7	1885.0	1863.4
12.5°	4664.8	4451.0	3849.0	3088.9	2377.3	2005.4	1820.3	1752.0	1725.0	1716.1	1710.7
15°	4875.0	4587.5	3737.6	2733.1	2008.9	1748.4	1669.3	1660.3	1663.9	1660.3	1658.6
17.5°	5124.8	4736.7	3556.1	2366.5	1761.0	1617.2	1588.5	1595.7	1604.6	1602.8	1599.3
20°	5397.9	4884.0	3324.3	2041.3	1592.1	1523.8	1507.6	1514.8	1522.0	1518.4	1516.6
22.5°	5708.8	5042.1	3067.3	1787.9	1478.9	1437.5	1419.6	1421.4	1421.4	1414.2	1410.6
25°	6080.8	5216.4	2797.8	1608.2	1392.6	1360.3	1338.7	1331.5	1320.7	1299.2	1295.6
27.5°	6524.6	5401.5	2539.0	1482.5	1324.3	1293.8	1268.6	1250.7	1223.7	1187.8	1184.2
30°	7024.1	5626.1	2319.8	1403.4	1270.4	1239.9	1211.1	1184.2	1144.6	1099.7	1096.1
32.5°	7611.7	5866.9	2159.9	1351.3	1221.9	1189.6	1155.4	1123.1	1079.9	1035.0	1036.8
35°	8312.5	6158.0	2066.4	1315.3	1184.2	1141.0	1103.3	1067.4	1035.0	995.5	991.9
37.5°	9072.6	6467.1	2037.7	1297.4	1159.0	1092.5	1049.4	1024.2	1020.6	997.3	995.5
40°	9904.6	6833.7	2059.3	1286.6	1132.1	1045.8	999.1	993.7	1002.7	961.3	963.1
42.5°	10785.1	7268.5	2095.2	1274.0	1094.3	999.1	954.2	954.2	947.0	889.5	889.5
45°	11737.4	7769.9	2131.1	1243.5	1049.4	952.4	918.2	905.6	875.1	819.4	817.6
47.5°	12697.0	8280.2	2158.1	1187.8	995.5	912.8	882.3	853.5	808.6	758.3	756.5
50°	13608.0	8738.4	2129.3	1105.1	934.4	875.1	842.8	803.2	754.7	720.6	715.2
52.5°	14422.0	9135.5	2007.2	1008.1	869.7	835.6	806.8	765.5	726.0	690.0	686.4
55°	15130.0	9457.2	1791.5	916.4	812.2	801.4	772.7	720.6	666.7	636.1	632.5
57.5°	15809.2	9701.5	1522.0	841.0	760.1	763.7	720.6	673.8	623.5	591.2	587.6
60°	16713.1	10028.6	1248.9	770.9	704.4	715.2	668.5	634.3	571.4	530.1	524.7
62.5°	18157.8	10537.1	991.9	684.6	639.7	643.3	623.5	582.2	506.7	458.2	454.6
65°	19304.2	10350.2	781.7	591.2	566.0	571.4	571.4	526.5	445.6	389.9	384.5
67.5°	19174.9	8862.4	623.5	499.5	495.9	499.5	512.1	474.4	395.3	350.4	343.2
70°	17663.7	7049.3	499.5	415.1	431.3	422.3	458.2	433.1	355.8	310.9	305.5
72.5°	14413.0	5078.1	380.9	343.2	330.6	345.0	413.3	389.9	296.5	246.2	240.8
75°	8422.1	2709.7	283.9	271.3	239.0	287.5	366.6	332.4	226.4	181.5	176.1
77.5°	2742.1	945.2	208.4	199.5	177.9	231.8	312.7	280.3	185.1	143.8	138.4
80°	734.9	285.7	142.0	131.2	115.0	172.5	248.0	222.8	133.0	93.4	91.6
82.5°	294.7	120.4	82.7	73.7	62.9	118.6	195.9	179.7	98.8	59.3	59.3
85°	95.2	39.5	30.5	23.4	28.8	73.7	116.8	122.2	70.1	30.5	23.4
87.5°	12.6	5.4	5.4	7.2	5.4	12.6	35.9	34.1	19.8	3.6	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)