

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: P885296

Luminaire Tested: **NAV-SB6C-735-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885296
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-SB6C-735-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA 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: 33193 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

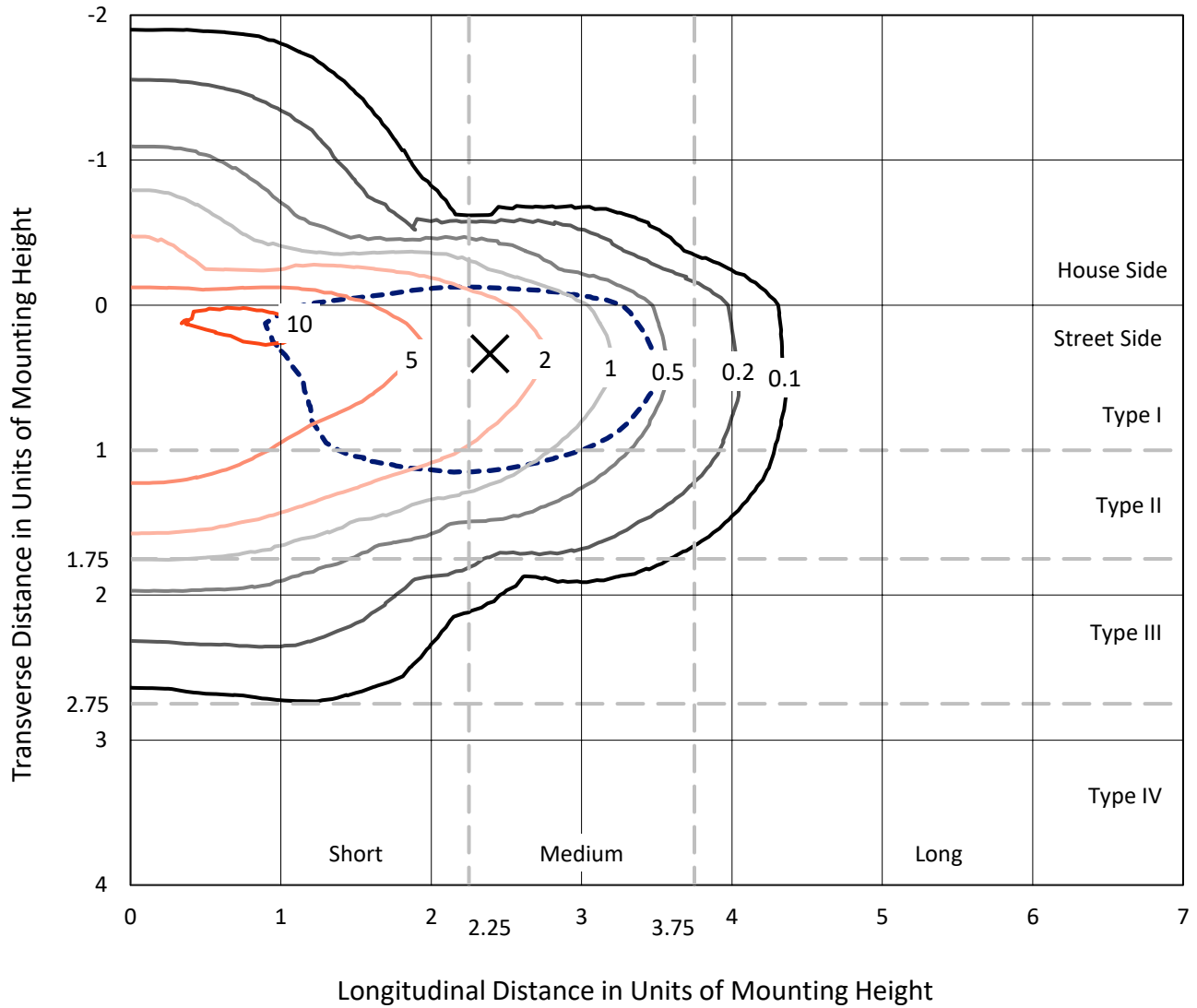
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

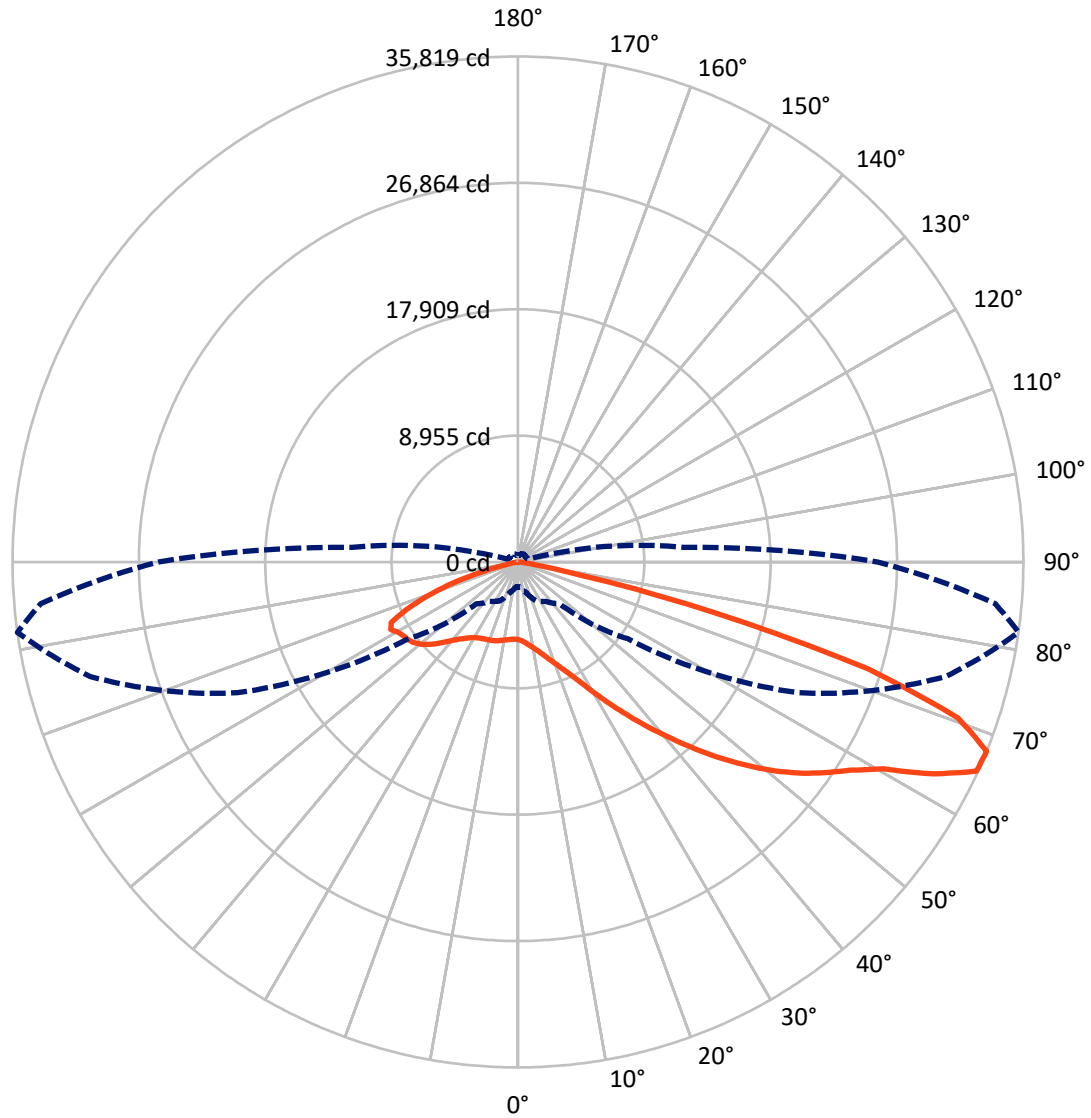
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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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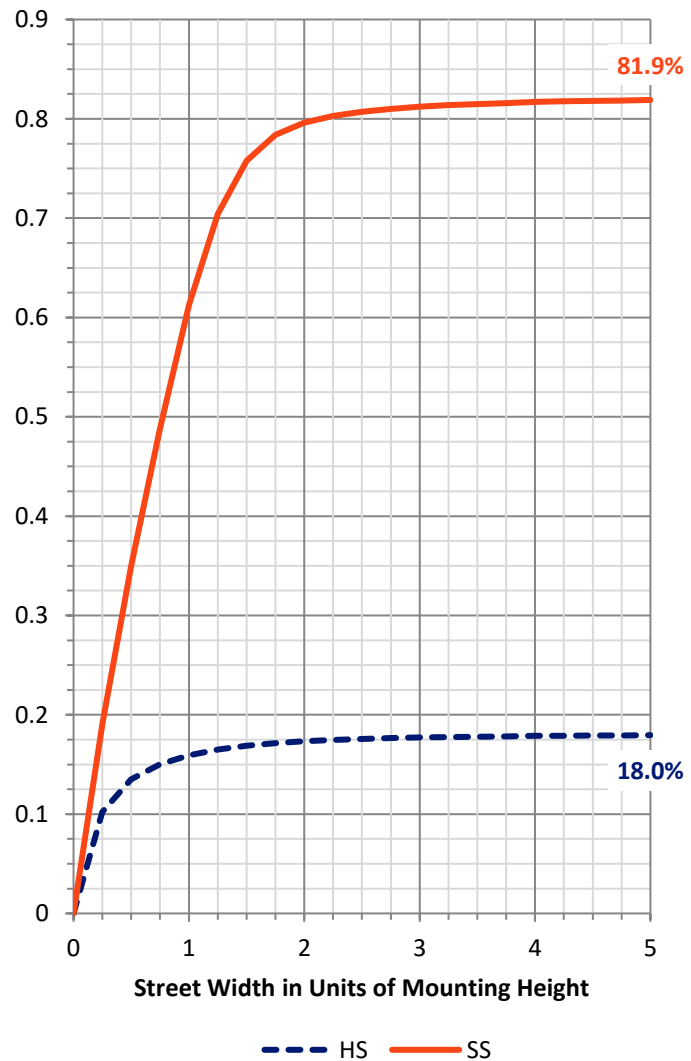
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6012.6	0.0	6012.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	27180.4	0.0	27180.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	33193.0	0.0	33193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.9	1.5
10°-20°	1273.1	3.8
20°-30°	2039.1	6.1
30°-40°	3605.7	10.9
40°-50°	6317.6	19.0
50°-60°	8425.9	25.4
60°-70°	7844.1	23.6
70°-80°	3010.6	9.1
80°-90°	187.0	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°	33193.0	100.0
0°-180°	33193.0	100.0

Coefficient of Utilization



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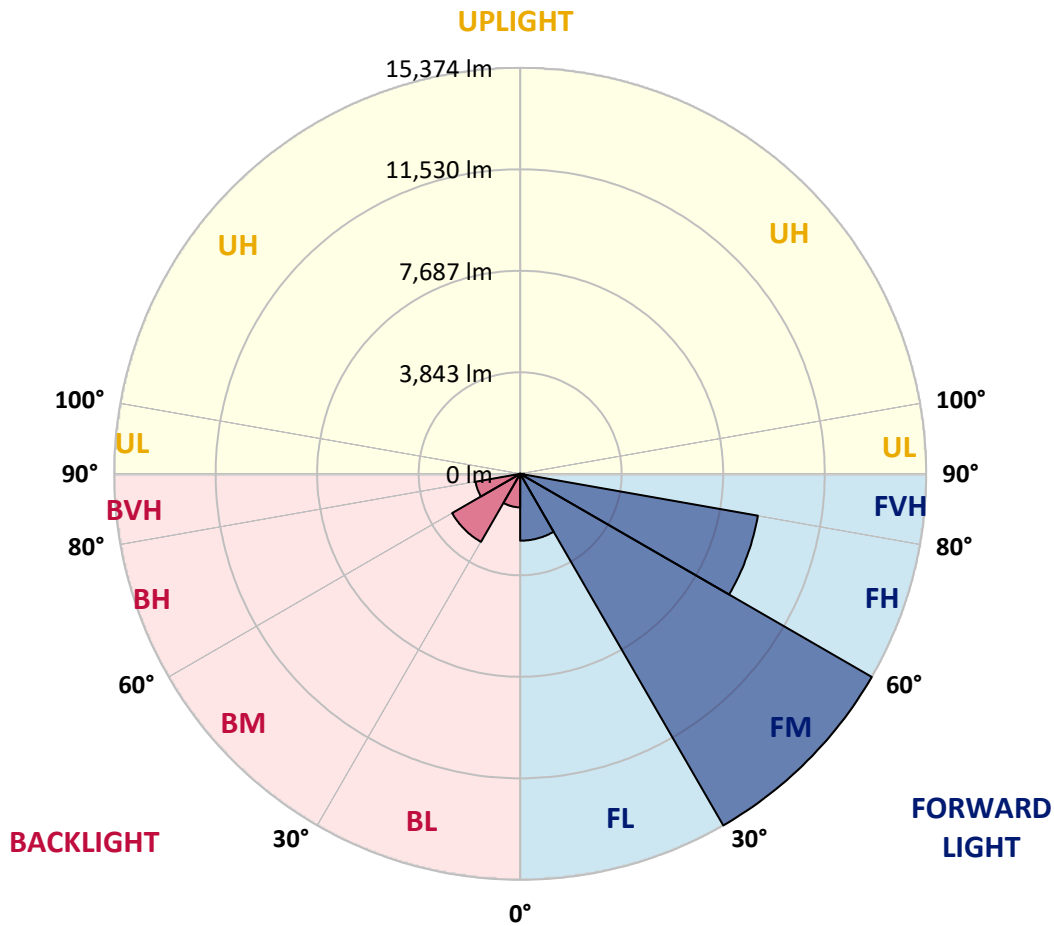
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2532.3	7.6			
FM (30°-60°)	15373.6	46.3			
FH (60°-80°)	9138.5	27.5			G4/12000
FVH (80°-90°)	135.9	0.4			G2/225
BL (0°-30°)	1269.8	3.8	B3/2500		
BM (30°-60°)	2975.6	9.0	B3/5000		
BH (60°-80°)	1716.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	51.0	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5499.0	5499.0	5499.0	5499.0	5499.0	5499.0	5499.0	5499.0	5499.0	5499.0	5499.0
2.5°	5812.0	5845.5	5826.4	5816.8	5800.1	5776.2	5757.1	5697.3	5635.2	5594.5	5580.2
5°	5929.1	5962.6	5960.2	5969.7	5981.7	5988.9	5984.1	5917.2	5828.8	5759.4	5718.8
7.5°	5828.8	5867.0	5898.1	5945.9	6029.5	6117.9	6160.9	6146.6	6055.8	5960.2	5910.0
10°	5544.4	5585.0	5659.1	5771.4	5948.2	6139.4	6299.5	6373.6	6316.3	6211.1	6141.8
12.5°	5023.4	5064.0	5209.8	5453.6	5749.9	6082.1	6388.0	6586.3	6600.7	6495.5	6414.3
15°	4437.9	4478.5	4633.8	4939.7	5391.4	5924.3	6435.8	6811.0	6937.6	6846.8	6748.8
17.5°	4074.6	4110.5	4227.6	4473.7	4944.5	5608.9	6419.0	7049.9	7339.1	7267.4	7150.3
20°	3964.7	3995.8	4050.7	4222.8	4614.7	5281.5	6309.1	7274.6	7771.7	7731.0	7599.6
22.5°	4081.8	4110.5	4127.2	4203.7	4449.8	5066.4	6170.5	7504.0	8273.5	8278.3	8118.2
25°	4351.8	4380.5	4361.4	4409.2	4516.7	4999.5	6117.9	7774.1	8904.4	8957.0	8775.4
27.5°	4796.4	4798.7	4753.3	4750.9	4767.7	5099.9	6172.9	8063.2	9700.2	9798.2	9573.6
30°	5687.8	5651.9	5477.4	5288.7	5202.6	5401.0	6325.8	8405.0	10639.4	10813.9	10531.9
32.5°	7061.9	7009.3	6689.1	6237.4	5783.3	5886.1	6600.7	8794.5	11662.3	11977.7	11633.6
35°	8553.1	8538.8	8204.2	7532.7	6739.3	6576.8	7047.6	9305.9	12778.3	13280.2	12871.5
37.5°	9939.2	9932.1	9740.9	8949.8	7984.4	7539.9	7764.5	9975.1	13973.2	14699.7	14217.0
40°	11205.8	11227.3	11036.2	10328.8	9356.1	8775.4	8739.5	10801.9	15302.0	16245.9	15672.4
42.5°	12300.4	12324.3	12130.7	11607.3	10711.1	10142.4	9936.8	11815.2	16599.6	17906.9	17228.2
45°	13043.6	13191.8	13163.1	12744.9	12102.0	11511.7	11375.5	13086.6	18078.9	19668.2	18872.3
47.5°	13253.9	13390.1	13605.2	13662.6	13270.6	12689.9	12852.4	14618.5	19574.9	21431.8	20526.1
50°	12735.3	12862.0	13308.9	13903.9	14176.4	13997.1	14288.7	16260.3	21106.8	23190.7	22148.8
52.5°	11712.5	11841.5	12405.5	13347.1	14458.4	15022.4	15729.7	17878.2	22590.9	24856.4	23685.4
55°	10233.2	10369.4	11093.5	12159.4	13920.7	15445.4	16931.8	19493.7	23950.7	26354.8	25071.5
57.5°	8221.0	8321.3	9074.1	10565.4	12568.0	15024.7	17818.4	21257.4	25231.6	27827.0	26445.7
60°	5358.0	5446.4	6321.1	7984.4	10326.4	13619.5	17995.3	23224.2	26933.2	29741.2	28297.8
62.5°	3563.2	3623.0	4141.5	5362.7	7272.2	10921.4	16960.5	24794.3	29428.1	33072.6	31473.8
65°	2444.8	2504.5	3023.1	3873.9	4698.4	7224.4	13985.2	24586.4	31688.9	35718.1	33827.8
67.5°	1744.6	1794.7	2234.5	3037.5	3400.7	4196.5	9480.4	21928.9	31363.9	35818.5	33954.4
70°	1249.9	1278.5	1641.8	2365.9	2702.9	2521.3	5271.9	16771.7	27461.3	33075.0	31368.7
72.5°	874.7	884.2	1139.9	1801.9	2177.1	1840.2	2509.3	11181.9	20769.9	25960.5	24318.7
75°	592.7	604.6	767.1	1321.6	1747.0	1405.2	1328.7	5996.0	12192.8	14369.9	12881.1
77.5°	363.3	368.0	494.7	903.3	1307.2	1070.6	855.6	2540.4	4717.5	4631.5	3948.0
80°	205.5	205.5	315.5	561.6	891.4	690.7	599.8	1080.2	1493.6	1312.0	1156.7
82.5°	114.7	117.1	229.4	348.9	590.3	408.7	329.8	499.5	645.2	571.2	497.1
85°	47.8	52.6	141.0	164.9	282.0	203.1	133.8	210.3	239.0	212.7	155.3
87.5°	4.8	7.2	43.0	31.1	33.5	40.6	19.1	40.6	33.5	33.5	23.9
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°	5499.0	5499.0	5499.0	5499.0	5499.0	5499.0	5499.0	5499.0	5499.0	5499.0	5499.0
2.5°	5534.8	5499.0	5408.1	5303.0	5164.4	5097.5	5006.7	4944.5	4891.9	4896.7	4848.9
5°	5642.3	5551.5	5348.4	5095.1	4779.6	4555.0	4316.0	4151.1	4017.3	3988.6	3924.1
7.5°	5790.5	5647.1	5291.0	4834.6	4301.7	3897.8	3536.9	3305.1	3140.2	3087.6	3035.1
10°	5981.7	5773.8	5217.0	4507.2	3740.1	3226.2	2839.1	2657.5	2545.1	2506.9	2478.2
12.5°	6204.0	5919.6	5119.0	4108.1	3161.7	2667.0	2420.9	2330.1	2294.2	2282.3	2275.1
15°	6483.6	6101.2	4970.8	3634.9	2671.8	2325.3	2220.1	2208.2	2213.0	2208.2	2205.8
17.5°	6815.7	6299.5	4729.4	3147.4	2342.0	2150.8	2112.6	2122.2	2134.1	2131.7	2126.9
20°	7179.0	6495.5	4421.2	2714.8	2117.4	2026.6	2005.1	2014.6	2024.2	2019.4	2017.0
22.5°	7592.4	6705.8	4079.4	2377.9	1966.8	1911.8	1888.0	1890.3	1890.3	1880.8	1876.0
25°	8087.1	6937.6	3720.9	2138.9	1852.1	1809.1	1780.4	1770.9	1756.5	1727.8	1723.1
27.5°	8677.4	7183.8	3376.8	1971.6	1761.3	1720.7	1687.2	1663.3	1627.5	1579.7	1574.9
30°	9341.8	7482.5	3085.2	1866.4	1689.6	1649.0	1610.7	1574.9	1522.3	1462.6	1457.8
32.5°	10123.2	7802.7	2872.6	1797.1	1625.1	1582.1	1536.6	1493.6	1436.3	1376.5	1378.9
35°	11055.3	8189.9	2748.3	1749.3	1574.9	1517.5	1467.3	1419.5	1376.5	1324.0	1319.2
37.5°	12066.2	8600.9	2710.0	1725.4	1541.4	1453.0	1395.7	1362.2	1357.4	1326.3	1324.0
40°	13172.6	9088.5	2738.7	1711.1	1505.6	1390.9	1328.7	1321.6	1333.5	1278.5	1280.9
42.5°	14343.7	9666.8	2786.5	1694.4	1455.4	1328.7	1269.0	1269.0	1259.4	1183.0	1183.0
45°	15610.3	10333.5	2834.3	1653.7	1395.7	1266.6	1221.2	1204.5	1163.8	1089.8	1087.4
47.5°	16886.4	11012.3	2870.2	1579.7	1324.0	1214.0	1173.4	1135.2	1075.4	1008.5	1006.1
50°	18098.0	11621.7	2831.9	1469.7	1242.7	1163.8	1120.8	1068.2	1003.7	958.3	951.1
52.5°	19180.6	12149.8	2669.4	1340.7	1156.7	1111.3	1073.0	1018.1	965.5	917.7	912.9
55°	20122.2	12577.6	2382.6	1218.8	1080.2	1065.9	1027.6	958.3	886.6	846.0	841.2
57.5°	21025.6	12902.6	2024.2	1118.4	1010.9	1015.7	958.3	896.2	829.3	786.2	781.5
60°	22227.6	13337.5	1660.9	1025.2	936.8	951.1	889.0	843.6	760.0	705.0	697.8
62.5°	24149.0	14013.9	1319.2	910.5	850.8	855.6	829.3	774.3	673.9	609.4	604.6
65°	25673.7	13765.3	1039.6	786.2	752.8	760.0	760.0	700.2	592.7	518.6	511.4
67.5°	25501.7	11786.6	829.3	664.4	659.6	664.4	681.1	630.9	525.8	466.0	456.5
70°	23491.8	9375.2	664.4	552.0	573.6	561.6	609.4	575.9	473.2	413.4	406.3
72.5°	19168.7	6753.6	506.6	456.5	439.7	458.8	549.7	518.6	394.3	327.4	320.2
75°	11201.0	3603.8	377.6	360.9	317.8	382.4	487.5	442.1	301.1	241.4	234.2
77.5°	3646.9	1257.0	277.2	265.3	236.6	308.3	415.8	372.8	246.2	191.2	184.0
80°	977.4	380.0	188.8	174.5	152.9	229.4	329.8	296.3	176.8	124.3	121.9
82.5°	391.9	160.1	109.9	98.0	83.6	157.7	260.5	239.0	131.4	78.9	78.9
85°	126.7	52.6	40.6	31.1	38.2	98.0	155.3	162.5	93.2	40.6	31.1
87.5°	16.7	7.2	7.2	9.6	7.2	16.7	47.8	45.4	26.3	4.8	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)