

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: P961994

Luminaire Tested: **NAV-SB2B-750-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-750-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8917.5 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

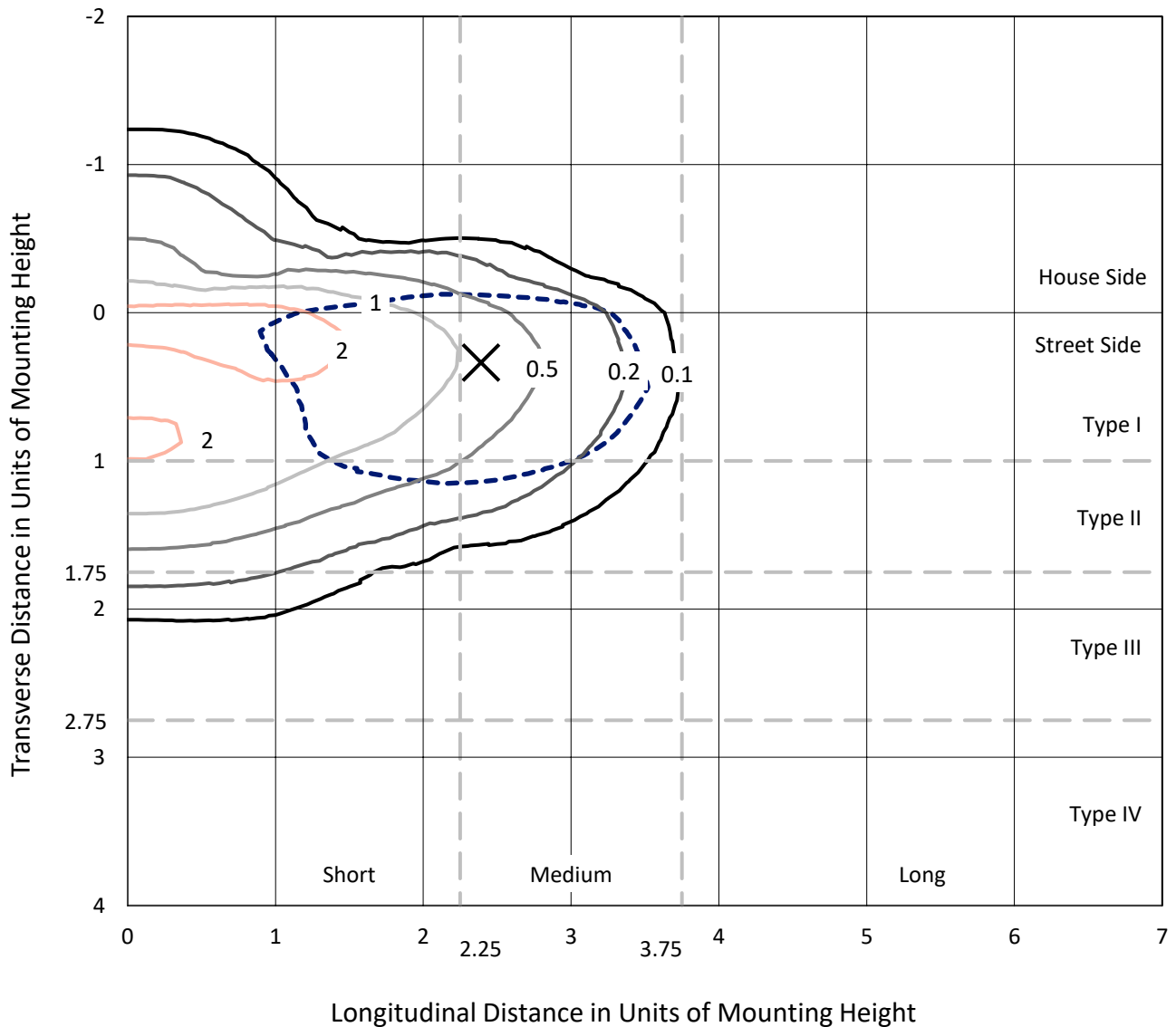
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

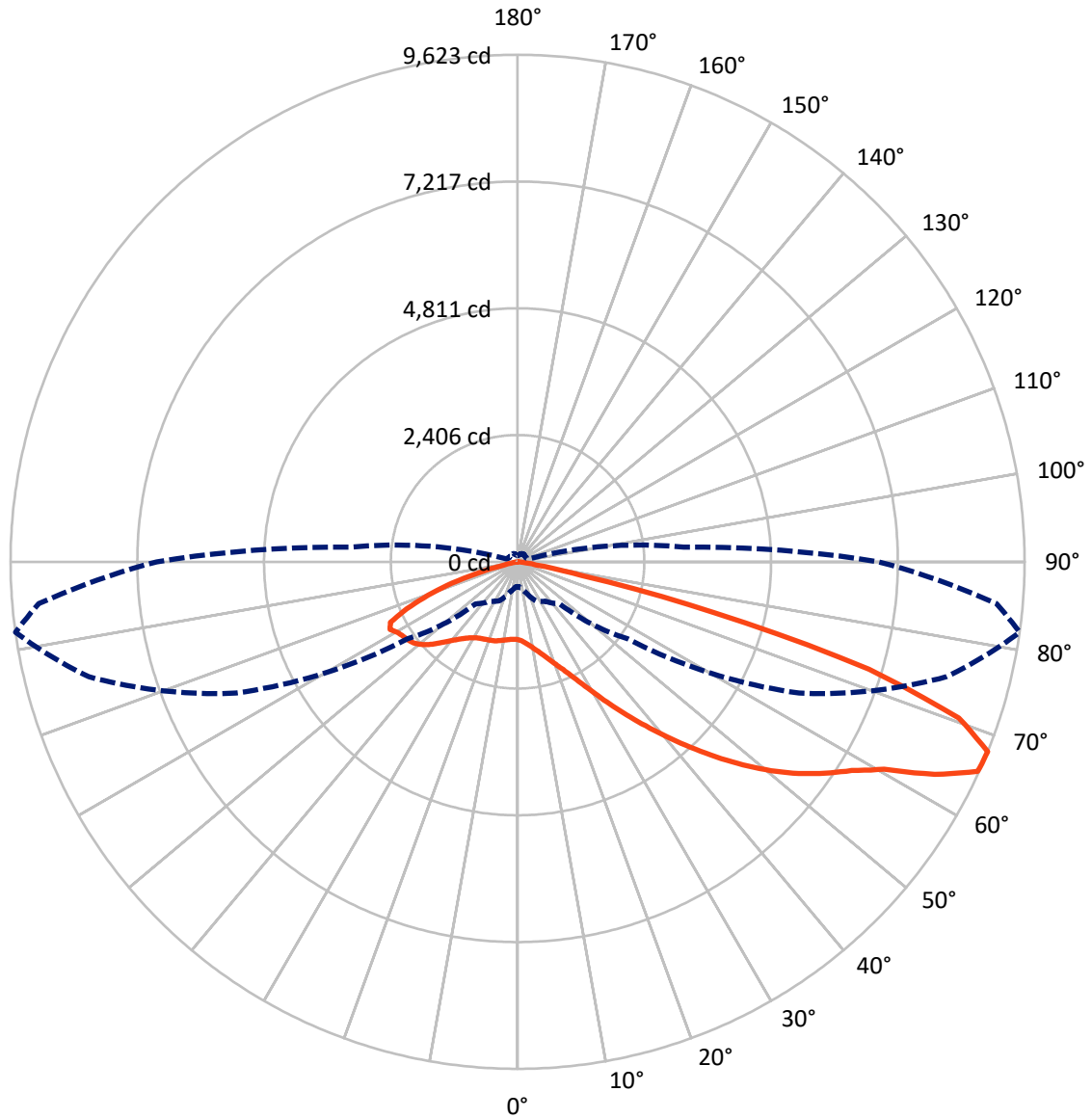
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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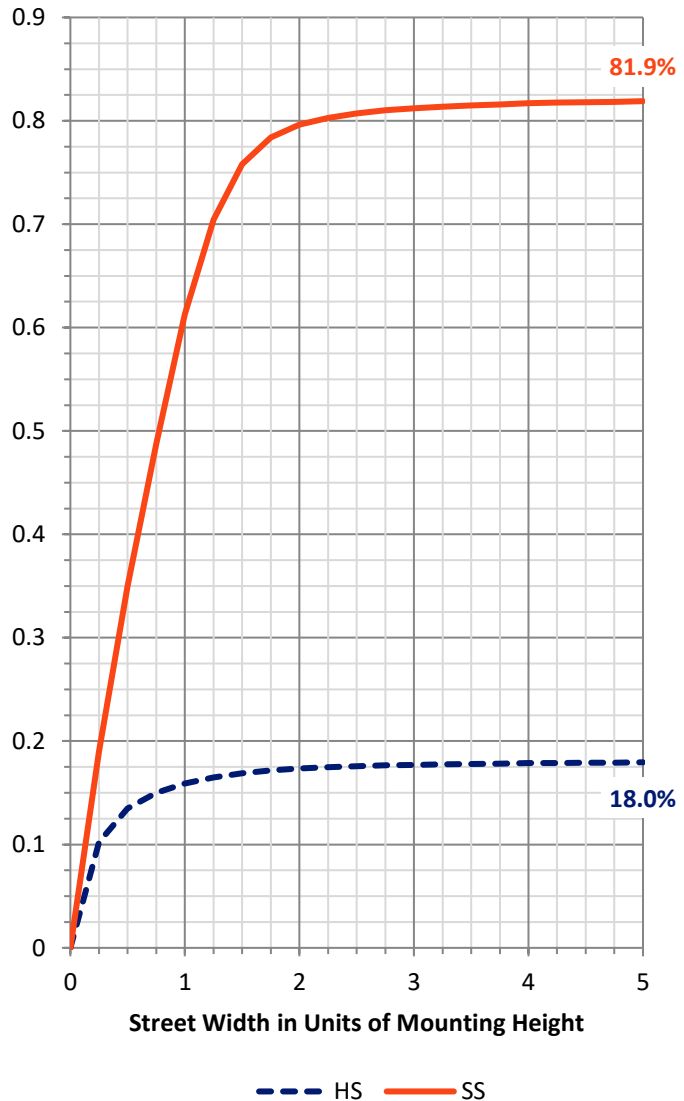
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1615.3	0.0	1615.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	7302.2	0.0	7302.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	8917.5	0.0	8917.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	1.5
10°-20°	342.0	3.8
20°-30°	547.8	6.1
30°-40°	968.7	10.9
40°-50°	1697.3	19.0
50°-60°	2263.7	25.4
60°-70°	2107.4	23.6
70°-80°	808.8	9.1
80°-90°	50.2	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°	8917.5	100.0
0°-180°	8917.5	100.0

Coefficient of Utilization



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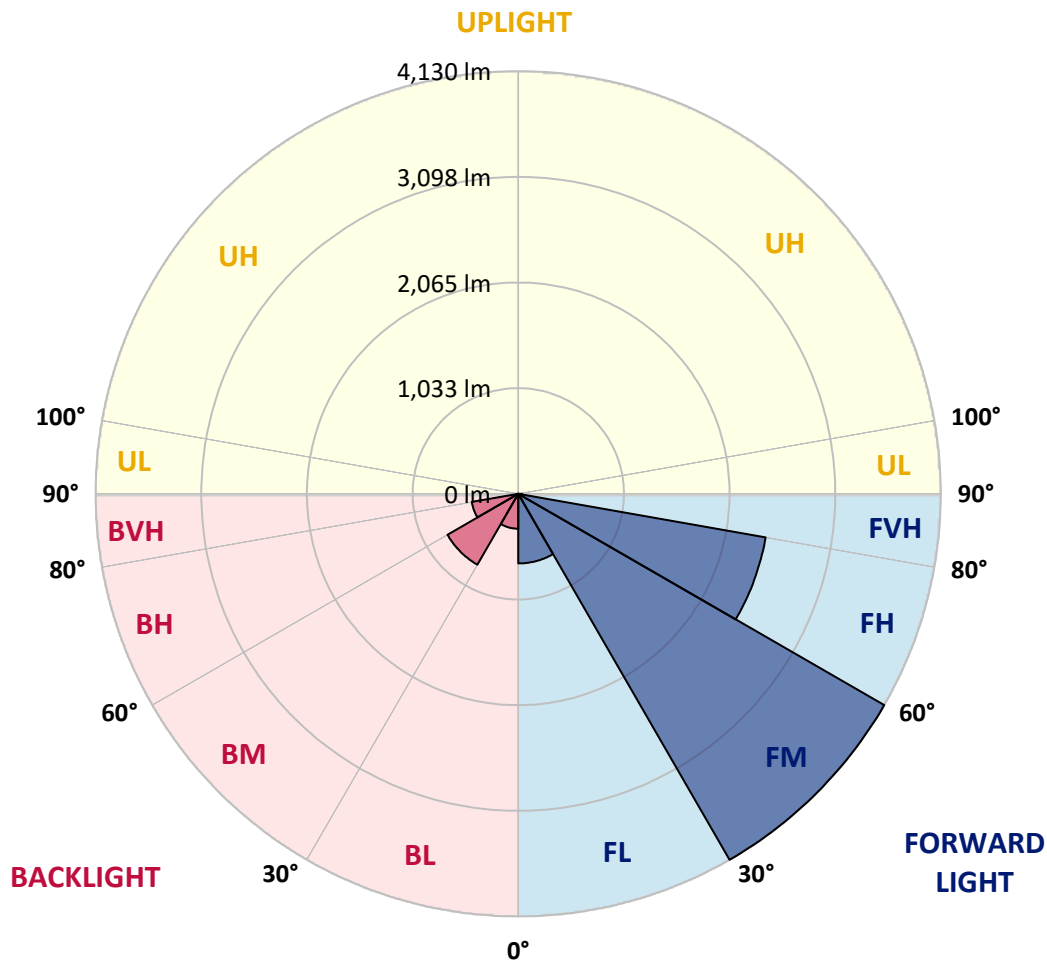
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	680.3	7.6			
FM (30°-60°)	4130.2	46.3			
FH (60°-80°)	2455.1	27.5			G2/5000
FVH (80°-90°)	36.5	0.4			G1/100
BL (0°-30°)	341.2	3.8	B1/500		
BM (30°-60°)	799.4	9.0	B1/1000		
BH (60°-80°)	461.0	5.2	B1/500		G1/500
BVH (80°-90°)	13.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1561.5	1570.4	1565.3	1562.7	1558.2	1551.8	1546.6	1530.6	1513.9	1503.1	1499.2
5°	1592.8	1601.9	1601.3	1603.8	1607.0	1608.9	1607.7	1589.7	1565.9	1547.3	1536.4
7.5°	1565.9	1576.2	1584.5	1597.4	1619.9	1643.6	1655.2	1651.3	1626.9	1601.3	1587.7
10°	1489.5	1500.4	1520.4	1550.5	1598.1	1649.4	1692.4	1712.3	1696.9	1668.7	1650.0
12.5°	1349.5	1360.5	1399.6	1465.1	1544.8	1634.0	1716.2	1769.5	1773.4	1745.1	1723.2
15°	1192.3	1203.1	1244.9	1327.1	1448.4	1591.6	1729.0	1829.8	1863.9	1839.5	1813.1
17.5°	1094.7	1104.3	1135.8	1201.9	1328.4	1506.9	1724.6	1894.0	1971.7	1952.4	1921.0
20°	1065.2	1073.5	1088.2	1134.5	1239.7	1418.9	1694.9	1954.4	2087.9	2077.0	2041.7
22.5°	1096.6	1104.3	1108.8	1129.3	1195.5	1361.1	1657.7	2016.0	2222.7	2224.0	2181.0
25°	1169.1	1176.9	1171.7	1184.6	1213.5	1343.2	1643.6	2088.5	2392.2	2406.4	2357.6
27.5°	1288.5	1289.2	1277.0	1276.3	1280.8	1370.1	1658.3	2166.2	2606.1	2632.3	2572.0
30°	1528.1	1518.4	1471.6	1420.9	1397.7	1451.0	1699.4	2258.1	2858.3	2905.3	2829.4
32.5°	1897.2	1883.1	1797.0	1675.7	1553.7	1581.4	1773.4	2362.7	3133.1	3217.9	3125.4
35°	2297.8	2294.0	2204.2	2023.7	1810.6	1766.9	1893.4	2500.1	3432.9	3567.8	3458.0
37.5°	2670.2	2668.3	2616.9	2404.4	2145.0	2025.6	2086.0	2679.9	3754.0	3949.2	3819.5
40°	3010.5	3016.3	2964.9	2774.9	2513.6	2357.6	2348.0	2902.0	4111.0	4364.6	4210.5
42.5°	3304.6	3311.0	3259.0	3118.4	2877.6	2724.8	2669.6	3174.2	4459.6	4810.7	4628.5
45°	3504.3	3544.0	3536.4	3424.0	3251.3	3092.7	3056.1	3515.7	4857.0	5284.0	5070.2
47.5°	3560.7	3597.3	3655.2	3670.5	3565.3	3409.3	3452.9	3927.4	5259.0	5757.8	5514.5
50°	3421.4	3455.5	3575.5	3735.4	3808.6	3760.4	3838.7	4368.4	5670.5	6230.4	5950.4
52.5°	3146.6	3181.3	3332.8	3585.8	3884.3	4035.8	4225.9	4803.0	6069.2	6677.9	6363.2
55°	2749.3	2785.8	2980.3	3266.7	3739.9	4149.5	4548.8	5237.1	6434.5	7080.4	6735.6
57.5°	2208.6	2235.5	2437.9	2838.4	3376.5	4036.4	4787.1	5710.9	6778.6	7475.8	7104.8
60°	1439.4	1463.2	1698.2	2145.0	2774.3	3658.9	4834.5	6239.3	7235.8	7990.2	7602.3
62.5°	957.2	973.3	1112.6	1440.7	1953.8	2934.1	4556.5	6661.2	7906.0	8885.1	8455.6
65°	656.8	672.8	812.2	1040.8	1262.3	1940.8	3757.2	6605.3	8513.4	9595.8	9088.1
67.5°	468.7	482.2	600.3	816.0	913.6	1127.4	2546.9	5891.3	8426.1	9622.9	9122.1
70°	335.8	343.5	441.1	635.6	726.1	677.3	1416.3	4505.8	7377.6	8885.8	8427.3
72.5°	235.0	237.6	306.3	484.1	584.9	494.4	674.1	3004.1	5580.0	6974.4	6533.3
75°	159.2	162.5	206.1	355.1	469.3	377.5	357.0	1610.9	3275.7	3860.6	3460.6
77.5°	97.6	98.9	132.9	242.7	351.2	287.6	229.8	682.4	1267.4	1244.2	1060.7
80°	55.2	55.2	84.8	150.9	239.4	185.5	161.1	290.2	401.3	352.5	310.8
82.5°	30.9	31.5	61.6	93.8	158.6	109.8	88.6	134.2	173.3	153.4	133.6
85°	12.8	14.1	37.9	44.3	75.7	54.5	36.0	56.5	64.2	57.1	41.7
87.5°	1.3	1.9	11.6	8.3	9.0	10.9	5.1	10.9	9.0	9.0	6.5
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°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1487.0	1477.3	1452.9	1424.6	1387.4	1369.5	1345.1	1328.4	1314.3	1315.5	1302.7
5°	1515.9	1491.5	1436.8	1368.8	1284.1	1223.7	1159.5	1115.2	1079.2	1071.5	1054.2
7.5°	1555.6	1517.1	1421.5	1298.9	1155.7	1047.1	950.2	888.0	843.7	829.5	815.4
10°	1607.0	1551.1	1401.6	1210.8	1004.8	866.7	762.7	713.9	683.8	673.5	665.8
12.5°	1666.8	1590.3	1375.2	1103.6	849.4	716.5	650.4	626.0	616.3	613.2	611.2
15°	1741.9	1639.1	1335.5	976.5	717.8	624.7	596.4	593.3	594.5	593.3	592.6
17.5°	1831.1	1692.4	1270.6	845.5	629.2	577.8	567.5	570.1	573.4	572.7	571.4
20°	1928.6	1745.1	1187.8	729.4	568.9	544.5	538.6	541.2	543.8	542.5	541.9
22.5°	2039.7	1801.5	1095.9	638.8	528.4	513.6	507.2	507.9	507.9	505.3	504.0
25°	2172.7	1863.9	999.7	574.6	497.5	486.1	478.4	475.7	471.9	464.2	462.9
27.5°	2331.3	1930.0	907.2	529.7	473.1	462.3	453.3	446.9	437.3	424.4	423.1
30°	2509.7	2010.2	828.9	501.4	453.9	443.0	432.8	423.1	409.0	392.9	391.7
32.5°	2719.6	2096.2	771.7	482.8	436.5	425.1	412.9	401.3	385.9	369.8	370.4
35°	2970.0	2200.3	738.3	470.0	423.1	407.6	394.2	381.4	369.8	355.7	354.4
37.5°	3241.7	2310.7	728.1	463.5	414.1	390.3	374.9	365.9	364.7	356.3	355.7
40°	3538.9	2441.7	735.7	459.7	404.5	373.7	357.0	355.1	358.2	343.5	344.1
42.5°	3853.5	2597.0	748.7	455.2	391.0	357.0	340.9	340.9	338.4	317.9	317.9
45°	4193.8	2776.2	761.5	444.3	374.9	340.3	328.1	323.6	312.6	292.7	292.1
47.5°	4536.6	2958.5	771.1	424.4	355.7	326.2	315.3	304.9	288.9	270.9	270.3
50°	4862.2	3122.3	760.9	394.8	333.8	312.6	301.1	287.0	269.7	257.5	255.5
52.5°	5153.0	3264.1	717.2	360.2	310.8	298.6	288.2	273.5	259.4	246.5	245.3
55°	5406.0	3379.0	640.1	327.5	290.2	286.4	276.0	257.5	238.2	227.2	226.0
57.5°	5648.7	3466.3	543.8	300.4	271.6	272.9	257.5	240.8	222.8	211.3	209.9
60°	5971.5	3583.2	446.2	275.4	251.6	255.5	238.8	226.6	204.2	189.4	187.5
62.5°	6487.7	3764.9	354.4	244.6	228.6	229.8	222.8	208.0	181.0	163.7	162.5
65°	6897.4	3698.1	279.3	211.3	202.2	204.2	204.2	188.1	159.2	139.3	137.4
67.5°	6851.2	3166.5	222.8	178.5	177.2	178.5	183.0	169.5	141.2	125.2	122.6
70°	6311.2	2518.7	178.5	148.3	154.1	150.9	163.7	154.8	127.1	111.1	109.2
72.5°	5149.8	1814.4	136.1	122.6	118.2	123.3	147.7	139.3	106.0	87.9	86.0
75°	3009.2	968.2	101.5	97.0	85.4	102.7	131.0	118.8	80.9	64.9	62.9
77.5°	979.8	337.7	74.5	71.2	63.6	82.8	111.7	100.1	66.1	51.4	49.4
80°	262.6	102.1	50.7	46.8	41.1	61.6	88.6	79.6	47.6	33.4	32.7
82.5°	105.3	43.0	29.5	26.3	22.4	42.3	70.0	64.2	35.4	21.2	21.2
85°	34.0	14.1	10.9	8.3	10.2	26.3	41.7	43.7	25.0	10.9	8.3
87.5°	4.5	1.9	1.9	2.6	1.9	4.5	12.8	12.2	7.1	1.3	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)