

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: P963523

Luminaire Tested: **NAV-SB3A-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-735-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10444.7 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

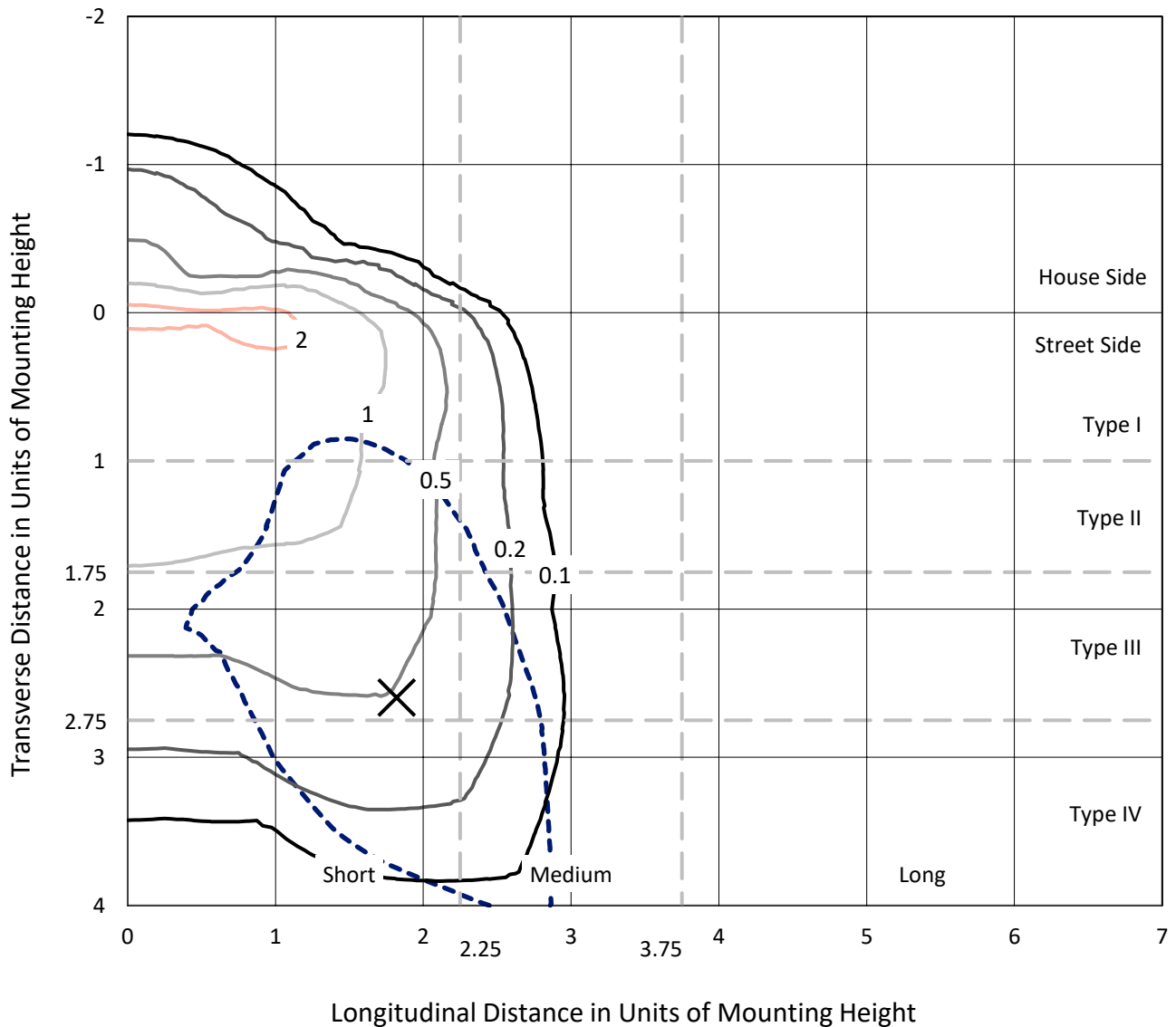
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

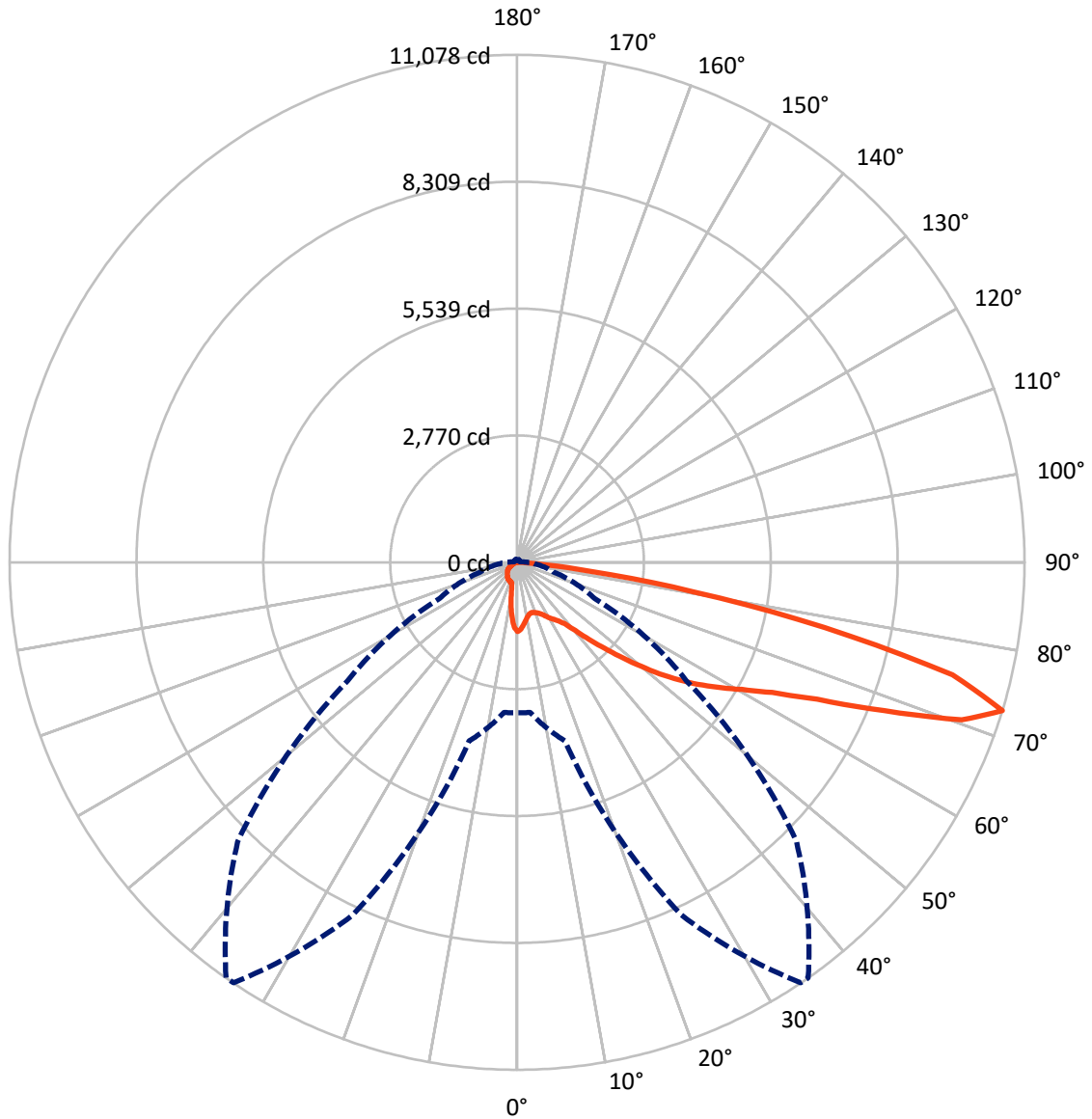
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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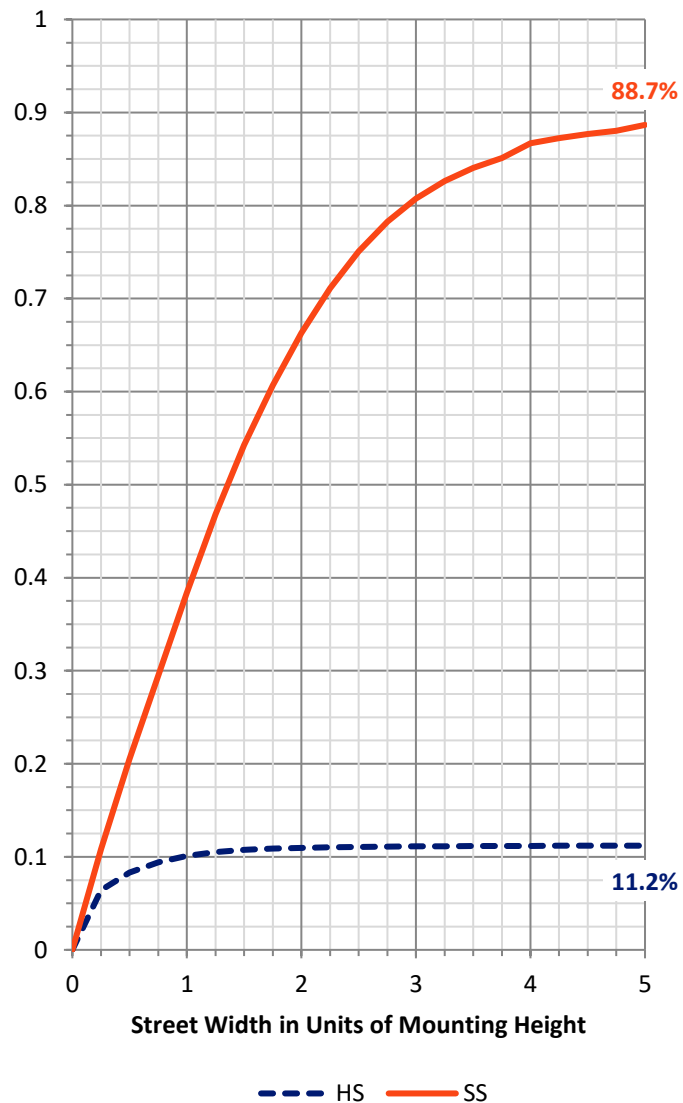
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1175.5	0.0	1175.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	9269.2	0.0	9269.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	10444.7	0.0	10444.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	1.2
10°-20°	291.0	2.8
20°-30°	472.7	4.5
30°-40°	788.7	7.6
40°-50°	1492.3	14.3
50°-60°	2371.3	22.7
60°-70°	2933.5	28.1
70°-80°	1823.5	17.5
80°-90°	147.4	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°	10444.7	100.0
0°-180°	10444.7	100.0

Coefficient of Utilization

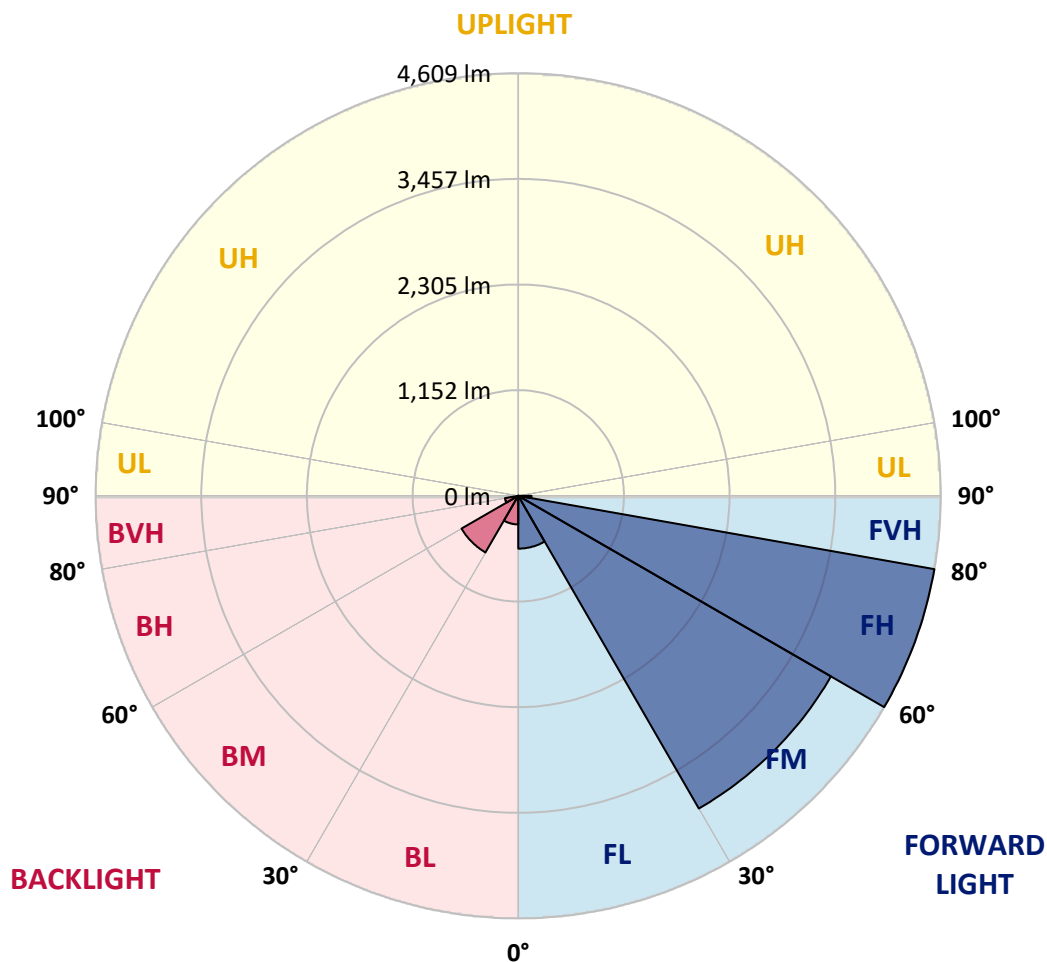


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	575.8	5.5			
FM (30°-60°)	3938.7	37.7			
FH (60°-80°)	4609.4	44.1			G2/5000
FVH (80°-90°)	145.4	1.4			G2/225
BL (0°-30°)	312.4	3.0	B1/500		
BM (30°-60°)	713.6	6.8	B1/1000		
BH (60°-80°)	147.5	1.4	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8
2.5°	1446.5	1458.7	1461.0	1464.8	1464.8	1469.4	1477.0	1487.8	1505.4	1514.5	1520.7
5°	1333.2	1342.3	1353.8	1363.0	1380.7	1382.9	1412.8	1441.9	1482.5	1513.0	1534.4
7.5°	1219.1	1229.9	1245.2	1267.4	1290.4	1297.2	1342.3	1391.3	1455.6	1513.0	1549.0
10°	1138.8	1139.6	1153.3	1175.6	1212.3	1220.7	1275.8	1345.4	1425.8	1503.9	1562.8
12.5°	1093.7	1099.0	1105.2	1122.0	1157.1	1162.6	1221.5	1303.3	1395.9	1498.4	1578.8
15°	1093.7	1097.5	1101.3	1109.7	1138.1	1142.6	1194.6	1276.5	1380.7	1500.8	1604.8
17.5°	1105.2	1111.2	1108.1	1118.2	1148.0	1151.1	1197.0	1268.8	1379.9	1515.4	1644.6
20°	1132.6	1137.2	1131.1	1137.2	1167.1	1173.2	1220.7	1283.4	1392.9	1540.6	1694.4
22.5°	1176.3	1178.5	1164.1	1168.6	1199.2	1206.9	1262.0	1324.8	1424.2	1581.2	1761.0
25°	1231.4	1235.9	1213.8	1219.1	1248.2	1257.4	1320.9	1386.7	1473.9	1637.0	1845.9
27.5°	1294.9	1297.2	1278.1	1277.4	1314.8	1327.8	1392.2	1463.3	1540.6	1707.4	1953.0
30°	1367.7	1374.5	1356.2	1353.1	1400.6	1411.2	1474.8	1557.4	1638.6	1813.0	2105.4
32.5°	1425.1	1430.4	1419.6	1427.3	1475.5	1484.0	1575.0	1690.5	1792.4	1963.1	2312.8
35°	1507.7	1510.7	1486.2	1500.0	1555.1	1576.6	1712.1	1877.3	1986.0	2151.3	2583.7
37.5°	1806.9	1806.9	1702.8	1634.7	1687.6	1706.6	1899.5	2112.3	2224.8	2403.8	2925.0
40°	2221.0	2214.1	2061.8	1922.5	1915.6	1953.0	2166.6	2408.4	2533.2	2706.9	3309.2
42.5°	2662.5	2651.8	2444.4	2306.7	2283.7	2296.7	2475.1	2773.5	2900.5	3076.5	3722.5
45°	3054.4	3051.3	2861.5	2676.3	2635.0	2676.3	2860.0	3200.6	3291.6	3476.8	4135.0
47.5°	3382.7	3382.7	3244.1	3123.3	3101.9	3126.4	3381.2	3674.3	3665.9	3903.1	4536.8
50°	3760.7	3757.6	3626.0	3574.1	3596.2	3630.7	3981.2	4173.3	4053.2	4321.7	4895.7
52.5°	4025.6	4043.9	3998.7	3990.3	4103.6	4163.3	4590.4	4661.5	4399.8	4718.9	5164.4
55°	4235.3	4256.7	4308.7	4367.6	4585.7	4663.9	5180.5	5124.6	4689.9	5063.3	5318.9
57.5°	4532.2	4501.6	4582.0	4698.3	5051.1	5145.2	5752.1	5561.5	4923.3	5342.7	5335.7
60°	4892.6	4897.2	4911.0	5058.0	5515.6	5636.6	6315.4	5974.8	5073.2	5514.1	5149.1
62.5°	5325.8	5332.8	5361.1	5586.8	6139.3	6253.4	6915.4	6313.1	5142.1	5465.9	4666.9
65°	5296.0	5325.1	5641.2	6413.3	7087.6	7200.1	7615.6	6550.4	5038.1	5025.1	3799.8
67.5°	4824.6	4872.0	5400.8	7400.6	8517.2	8642.7	8462.1	6597.0	4588.8	3907.7	2478.9
70°	4206.2	4223.0	4859.0	8288.4	10172.6	10299.6	9219.8	6083.5	3482.2	2179.7	1110.5
72.5°	3284.7	3288.6	4034.7	8494.3	11071.0	11078.0	8625.1	4516.2	1872.8	837.2	385.7
75°	2346.4	2323.5	2702.3	6888.6	9740.2	9818.3	6466.1	2118.4	715.6	395.6	192.1
77.5°	1258.2	1283.4	1529.1	4085.2	6728.6	6861.9	3528.2	610.7	364.3	269.4	127.0
80°	388.8	410.2	626.8	1870.4	3811.3	3891.6	1307.9	271.7	254.1	192.1	83.4
82.5°	122.5	127.0	292.3	786.0	1581.9	1618.7	378.8	153.9	173.7	127.0	49.0
85°	35.2	36.0	130.1	293.2	391.0	398.7	106.4	59.7	99.5	78.8	25.2
87.5°	3.8	12.2	49.0	49.0	34.4	33.7	11.5	13.0	28.3	9.9	4.6
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°	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8
2.5°	1516.9	1517.6	1507.7	1490.9	1472.5	1457.1	1438.1	1422.7	1412.0	1409.0	1414.3
5°	1527.6	1522.2	1493.9	1442.6	1381.4	1328.6	1269.7	1222.9	1192.4	1179.4	1184.0
7.5°	1543.6	1528.4	1466.4	1365.3	1248.2	1144.1	1038.5	956.6	904.6	878.6	882.4
10°	1557.4	1526.8	1420.4	1253.6	1074.5	916.9	774.5	675.8	620.6	594.6	595.4
12.5°	1570.4	1526.0	1360.7	1121.1	878.6	685.7	553.3	504.3	489.0	483.7	482.2
15°	1594.9	1528.4	1285.8	969.6	683.5	518.1	469.9	469.1	472.2	470.7	469.9
17.5°	1628.6	1530.6	1200.8	808.9	527.3	456.8	454.6	461.5	466.1	463.8	463.0
20°	1672.2	1539.9	1110.5	649.7	453.0	441.6	446.9	453.0	456.8	453.0	452.3
22.5°	1733.5	1555.8	1011.8	521.9	429.4	432.4	437.0	443.9	447.7	442.4	441.6
25°	1808.4	1581.2	914.5	453.9	417.9	421.7	428.6	436.2	440.9	435.4	434.7
27.5°	1905.7	1621.8	825.0	438.5	406.4	408.7	418.6	430.1	436.2	429.4	429.4
30°	2046.4	1688.3	747.7	445.4	399.5	394.1	408.0	423.9	430.9	424.8	423.9
32.5°	2233.2	1782.4	700.3	456.1	396.5	377.3	390.3	411.0	422.5	418.6	418.6
35°	2478.1	1925.6	681.9	468.3	394.1	359.7	368.9	391.0	411.0	414.8	414.8
37.5°	2775.1	2124.5	687.3	473.8	387.2	345.1	349.7	368.9	394.9	407.1	410.2
40°	3112.5	2356.4	717.9	468.3	379.6	332.9	333.6	348.2	371.2	389.5	395.6
42.5°	3460.7	2627.3	774.5	448.4	372.7	322.2	319.9	329.8	345.1	358.1	363.6
45°	3792.1	2905.9	830.4	421.0	364.3	311.5	306.2	310.0	313.0	318.4	321.4
47.5°	4081.4	3101.9	814.3	395.6	352.8	299.2	290.1	288.5	279.3	278.6	277.8
50°	4281.2	3144.7	723.2	370.4	336.0	285.5	270.9	261.8	245.7	238.0	238.8
52.5°	4344.7	2975.6	590.8	345.1	308.4	267.1	246.4	231.9	212.0	205.1	204.4
55°	4260.5	2644.2	472.2	314.6	270.2	242.6	219.7	200.5	184.4	176.0	176.0
57.5°	4054.6	2222.5	373.5	278.6	229.6	215.0	192.1	172.9	159.2	150.8	149.2
60°	3713.3	1764.8	295.4	235.7	195.9	185.2	161.4	149.2	137.0	127.0	124.7
62.5°	3195.2	1259.7	231.9	186.8	163.8	151.5	137.8	128.5	114.1	100.2	98.0
65°	2493.4	770.7	179.1	137.0	131.6	125.6	117.1	108.6	91.1	77.3	75.0
67.5°	1572.8	365.1	127.8	103.3	104.0	101.1	97.2	90.3	77.3	65.1	63.6
70°	692.6	176.8	84.2	78.8	77.3	77.3	80.4	78.1	65.8	54.3	52.1
72.5°	235.7	94.9	62.7	59.7	55.9	55.1	67.3	65.1	52.8	42.1	39.8
75°	123.2	63.6	45.9	42.8	33.7	40.6	53.6	50.5	37.5	27.6	25.2
77.5°	80.4	45.2	31.4	27.6	19.2	26.8	39.8	35.2	22.2	13.7	12.2
80°	50.5	29.8	18.3	13.0	9.2	14.6	21.4	15.3	8.4	3.1	2.3
82.5°	26.8	15.3	6.9	4.6	3.8	4.6	5.3	3.8	1.5	0.0	0.0
85°	10.8	5.3	2.3	1.5	0.7	0.0	1.5	0.7	0.0	0.0	0.0
87.5°	3.8	0.7	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)