

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: P963519

Luminaire Tested: **NAV-SB3A-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-735-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10818.9 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

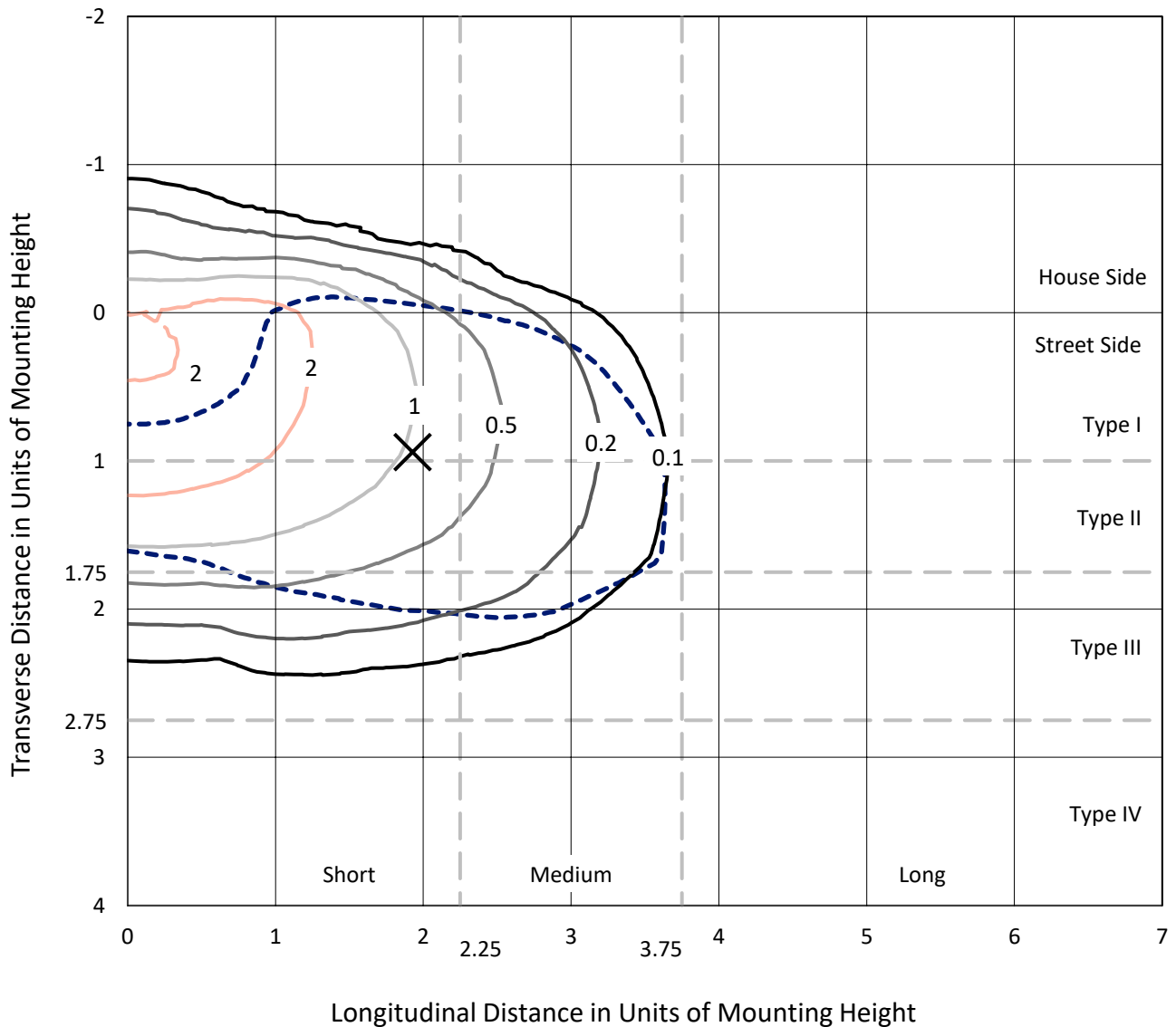
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

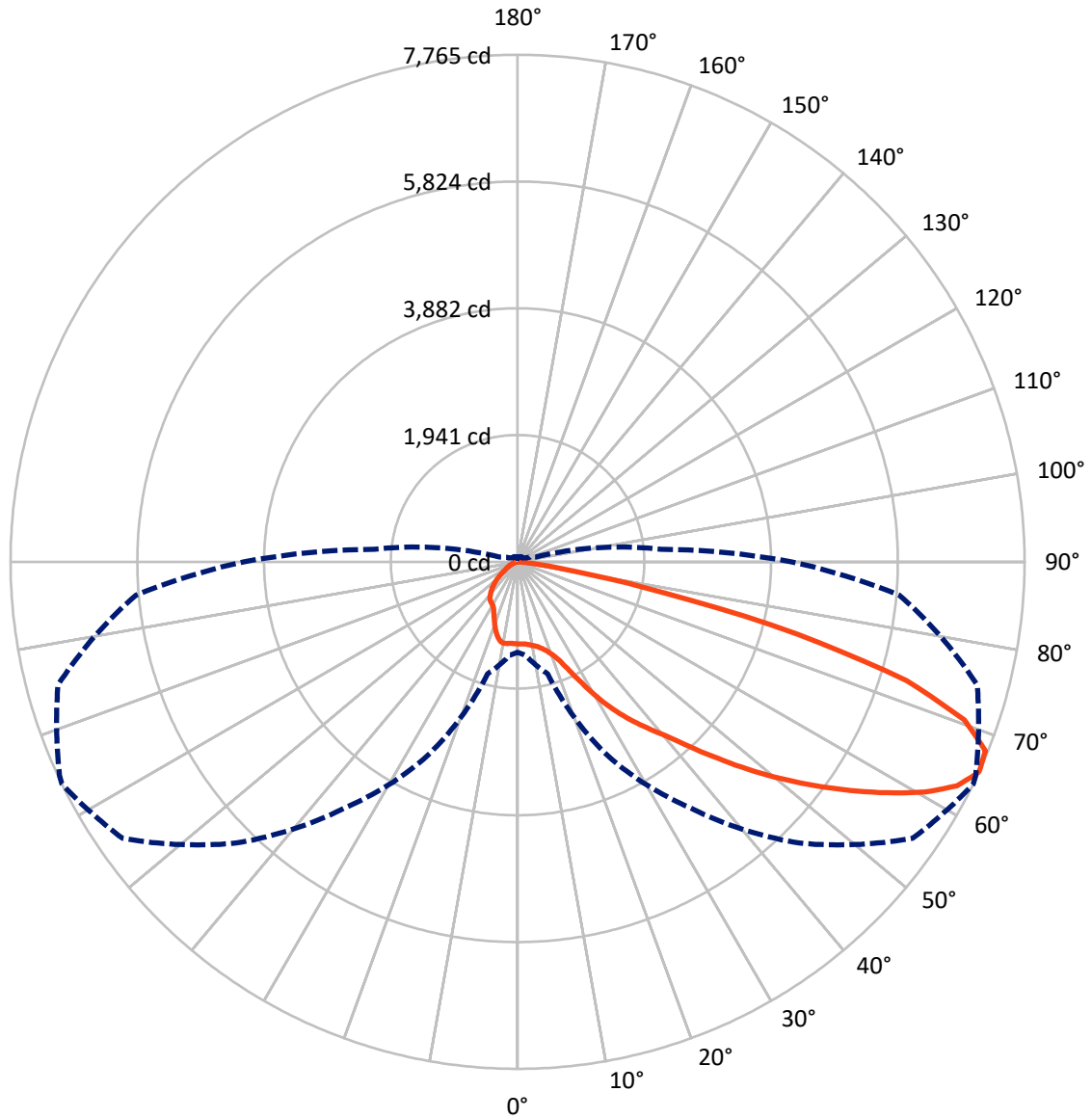
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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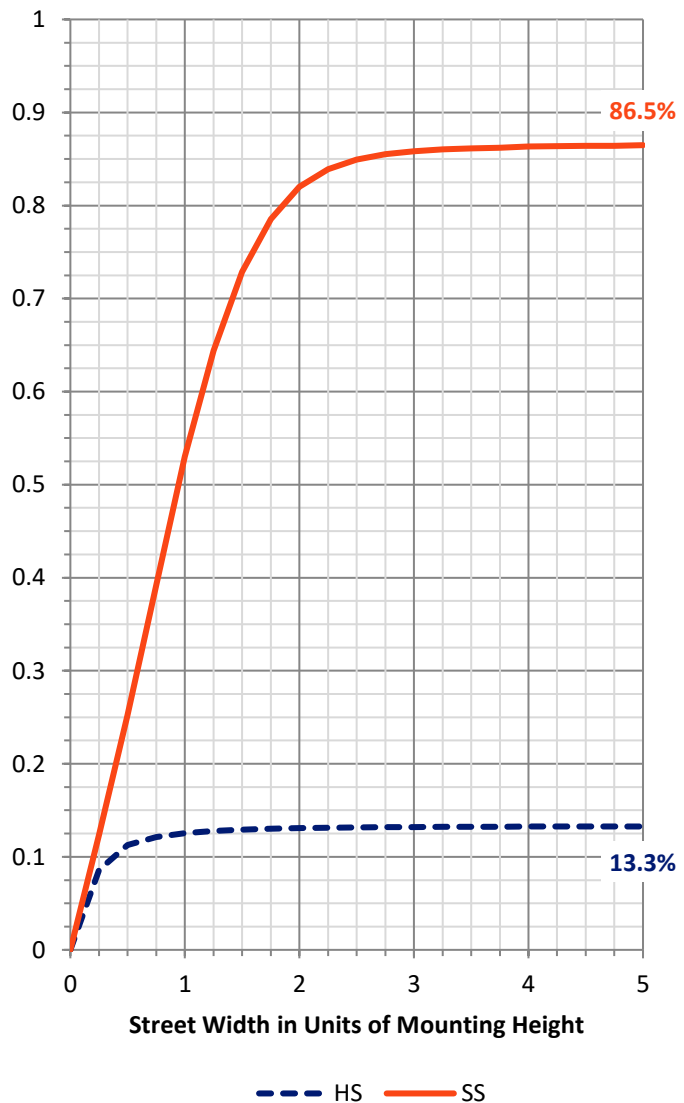
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1446.8	0.0	1446.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	9372.1	0.0	9372.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	10818.9	0.0	10818.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	1.1
10°-20°	314.9	2.9
20°-30°	596.7	5.5
30°-40°	1207.4	11.2
40°-50°	2056.8	19.0
50°-60°	2797.1	25.9
60°-70°	2626.6	24.3
70°-80°	1052.3	9.7
80°-90°	51.0	0.5
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°	10818.9	100.0
0°-180°	10818.9	100.0

Coefficient of Utilization



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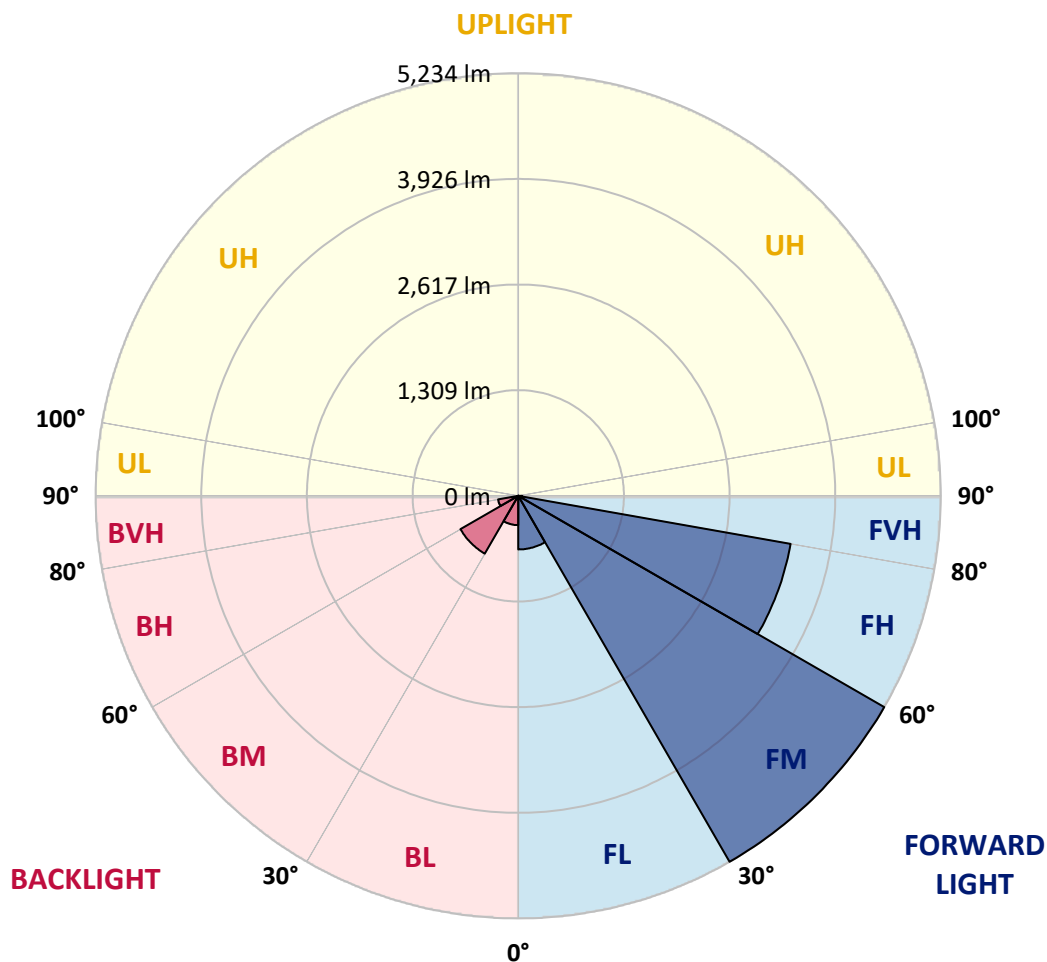
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	664.4	6.1			
FM (30°-60°)	5234.2	48.4			
FH (60°-80°)	3425.0	31.7			G2/5000
FVH (80°-90°)	48.5	0.4			G1/100
BL (0°-30°)	363.3	3.4	B1/500		
BM (30°-60°)	827.1	7.6	B1/1000		
BH (60°-80°)	253.9	2.3	B1/500		G1/500
BVH (80°-90°)	2.5	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4
2.5°	1254.0	1262.7	1260.5	1258.4	1257.6	1259.1	1259.8	1259.1	1259.1	1259.1	1259.8
5°	1230.1	1237.3	1237.3	1242.4	1249.7	1258.4	1264.8	1266.3	1267.8	1270.0	1269.3
7.5°	1184.4	1190.1	1194.5	1211.2	1229.4	1252.6	1272.1	1282.3	1283.7	1291.7	1294.6
10°	1153.2	1160.4	1167.7	1185.1	1211.2	1246.0	1279.4	1304.0	1307.7	1326.6	1335.3
12.5°	1151.7	1159.0	1168.4	1187.3	1217.7	1254.7	1295.3	1330.9	1337.4	1365.0	1383.1
15°	1167.0	1175.7	1184.4	1207.6	1240.2	1285.1	1328.7	1373.0	1379.4	1418.6	1438.2
17.5°	1198.1	1209.7	1216.3	1239.5	1274.3	1324.3	1381.6	1432.4	1438.2	1483.9	1508.6
20°	1259.8	1273.6	1275.7	1294.6	1328.7	1382.4	1450.6	1513.6	1520.9	1573.1	1600.6
22.5°	1387.4	1407.0	1389.6	1399.0	1429.5	1483.2	1557.2	1636.9	1647.1	1706.5	1731.2
25°	1612.3	1639.8	1594.9	1578.9	1591.9	1647.8	1740.7	1841.5	1853.1	1901.0	1913.3
27.5°	2054.0	2018.4	1950.3	1883.5	1844.4	1876.3	1980.7	2105.5	2120.0	2166.3	2151.9
30°	2539.1	2508.0	2415.9	2267.9	2175.0	2170.0	2266.5	2405.8	2422.4	2466.7	2422.4
32.5°	3025.1	2995.4	2895.3	2713.3	2552.2	2472.4	2539.1	2693.7	2702.4	2730.6	2665.4
35°	3503.0	3472.6	3372.6	3186.1	2988.1	2806.8	2793.7	2967.8	2970.8	3000.5	2903.3
37.5°	3984.0	3958.6	3852.0	3669.2	3474.0	3223.8	3102.7	3227.4	3231.1	3260.1	3159.3
40°	4326.9	4337.9	4264.6	4123.2	3955.7	3682.2	3449.4	3503.8	3482.0	3530.6	3470.4
42.5°	4621.4	4643.1	4579.4	4508.3	4411.1	4170.3	3878.8	3869.4	3834.5	3860.7	3798.2
45°	4876.0	4894.2	4836.9	4820.2	4818.0	4649.0	4348.0	4291.5	4242.9	4237.8	4163.0
47.5°	4969.6	5004.4	5029.1	5084.9	5193.7	5122.6	4833.2	4745.4	4691.0	4651.1	4533.0
50°	5005.1	5042.1	5126.2	5288.7	5546.2	5576.6	5316.3	5217.7	5150.9	5078.4	4904.3
52.5°	4957.2	5023.2	5136.4	5409.8	5783.4	5940.7	5779.7	5693.4	5617.2	5499.0	5240.8
55°	4675.1	4741.1	4972.5	5408.3	5901.5	6196.0	6217.8	6179.3	6093.7	5907.4	5512.8
57.5°	4080.4	4178.3	4544.5	5224.1	5899.4	6415.8	6647.1	6674.7	6579.0	6312.1	5726.8
60°	3256.4	3389.2	3836.0	4815.8	5717.3	6534.7	7023.5	7161.4	7059.8	6711.0	5900.1
62.5°	2272.3	2426.1	2848.9	4176.2	5301.0	6449.1	7298.4	7553.0	7476.1	7067.8	5966.8
65°	1386.0	1435.3	1776.2	3286.3	4593.1	6090.9	7383.3	7764.8	7739.4	7286.1	5868.2
67.5°	923.3	964.6	1062.5	2253.5	3565.5	5375.0	7180.2	7727.8	7735.1	7250.5	5507.0
70°	556.3	591.8	655.7	1310.6	2310.8	4254.5	6551.4	7256.4	7298.4	6775.5	4822.3
72.5°	229.2	253.1	311.2	594.0	1196.7	2700.2	5216.8	6230.1	6328.0	5697.1	3701.1
75°	129.9	142.2	182.8	298.1	519.3	1258.4	3160.0	4422.7	4567.0	3926.7	2226.6
77.5°	86.3	92.1	118.2	192.9	292.3	429.4	1350.4	2304.2	2579.8	2144.6	963.9
80°	58.0	63.1	81.2	129.0	190.0	184.2	430.1	853.6	1050.2	736.9	235.0
82.5°	39.2	39.9	58.0	84.9	120.4	89.2	126.9	265.5	333.6	213.2	89.2
85°	22.4	21.7	42.7	49.3	53.7	37.0	38.4	79.7	104.4	89.9	50.7
87.5°	2.9	4.3	16.7	13.0	7.3	8.0	8.0	13.7	20.3	21.7	10.9
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°	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4	1258.4
2.5°	1259.8	1259.1	1256.9	1254.7	1249.7	1246.7	1248.1	1246.7	1246.0	1246.7	1249.7
5°	1269.3	1267.0	1261.3	1254.0	1243.8	1231.5	1223.5	1212.0	1201.1	1194.5	1196.0
7.5°	1294.6	1292.4	1284.4	1264.1	1231.5	1180.0	1132.8	1091.5	1060.4	1042.2	1042.9
10°	1335.3	1331.6	1319.3	1274.3	1188.7	1076.4	982.8	905.2	854.3	830.5	828.3
12.5°	1383.1	1378.7	1357.0	1264.8	1107.5	931.9	802.9	716.6	669.4	648.4	646.3
15°	1439.7	1433.9	1391.0	1220.0	989.2	772.4	654.2	589.7	559.1	540.3	541.1
17.5°	1510.0	1499.9	1416.4	1152.4	860.9	650.6	562.8	514.2	487.4	469.2	467.8
20°	1601.4	1584.8	1436.7	1071.9	742.7	573.7	501.1	460.5	440.2	424.2	421.4
22.5°	1729.1	1705.1	1461.4	984.9	659.3	520.7	455.5	425.8	409.1	390.9	388.1
25°	1887.1	1858.8	1491.9	904.5	602.0	475.1	422.1	397.5	377.9	356.8	354.6
27.5°	2108.3	2057.6	1528.2	838.4	552.7	435.9	391.7	364.1	341.6	324.2	320.6
30°	2354.9	2271.5	1560.0	798.5	507.7	399.6	351.8	324.2	303.2	290.8	288.6
32.5°	2588.5	2475.4	1581.1	781.2	467.1	358.2	308.2	278.5	262.5	258.9	261.1
35°	2809.0	2659.6	1578.9	764.4	430.8	316.9	265.5	235.0	222.6	224.9	224.9
37.5°	3062.8	2856.2	1563.6	738.3	401.1	279.2	228.5	201.6	190.8	191.5	194.3
40°	3358.0	3083.1	1554.2	689.0	368.5	244.5	198.0	176.2	168.3	165.3	164.6
42.5°	3672.8	3302.9	1555.7	633.1	327.8	213.2	177.0	158.9	151.6	149.4	148.7
45°	3989.0	3512.5	1557.9	575.1	285.1	189.3	161.7	146.5	142.2	139.3	139.3
47.5°	4286.3	3690.9	1517.3	512.8	242.9	171.2	149.4	139.3	135.6	132.0	132.0
50°	4563.4	3809.8	1419.3	440.2	209.6	156.6	140.0	132.7	129.0	125.5	125.5
52.5°	4778.9	3828.7	1257.6	365.5	186.3	145.8	134.2	127.6	123.3	119.7	118.9
55°	4874.6	3710.5	1027.7	295.9	168.3	136.3	128.3	121.9	116.7	113.2	112.4
57.5°	4849.9	3461.7	801.4	237.9	150.9	126.9	121.2	116.7	111.0	105.2	104.4
60°	4728.7	3128.8	604.1	198.0	134.9	116.7	113.2	109.5	101.6	92.9	91.4
62.5°	4519.1	2710.3	430.8	163.9	117.5	105.2	103.7	100.9	89.2	73.3	71.9
65°	4198.6	2201.9	290.1	136.3	100.9	92.1	92.9	87.7	72.6	54.4	53.0
67.5°	3730.1	1610.1	185.6	111.7	84.2	76.9	77.6	74.7	61.6	46.4	44.3
70°	3133.2	1066.1	121.2	84.9	67.4	59.4	63.9	64.6	52.2	37.7	36.3
72.5°	2296.9	629.6	84.9	63.1	49.3	41.3	52.2	53.7	42.0	28.3	26.9
75°	1309.1	298.8	63.9	45.7	30.4	29.0	40.6	40.6	29.0	18.9	17.4
77.5°	549.7	124.7	45.0	29.7	17.4	16.7	27.6	25.4	14.6	8.7	8.7
80°	158.9	55.9	24.0	14.6	7.3	6.6	10.9	8.0	3.6	1.4	1.4
82.5°	62.4	24.7	9.4	5.8	2.9	2.9	1.4	0.0	0.0	0.0	0.0
85°	37.0	10.1	4.3	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.4	2.2	1.4	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)