

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: P962369

Luminaire Tested: **NAV-SB2C-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-722-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9691.4 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

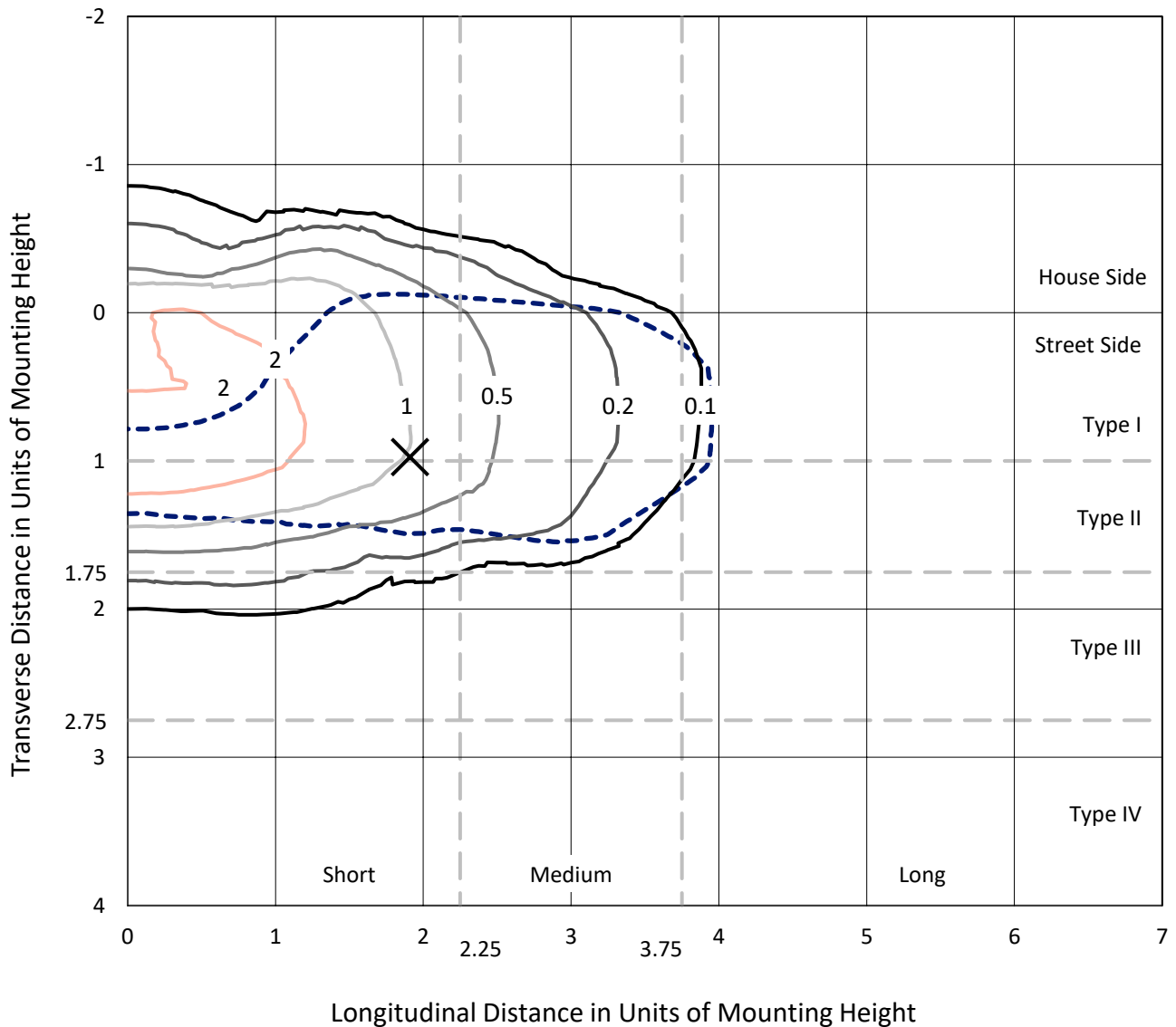
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

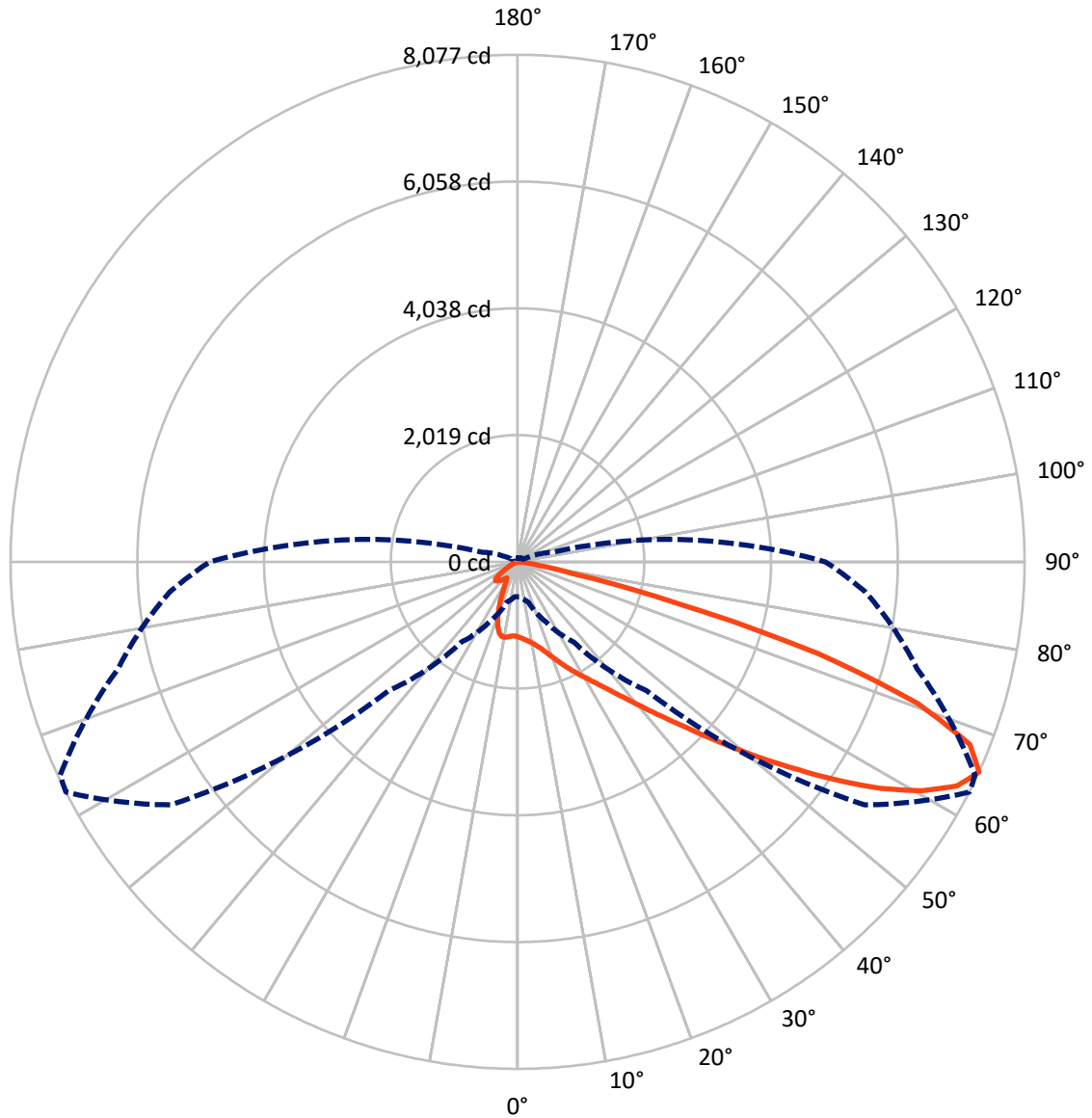
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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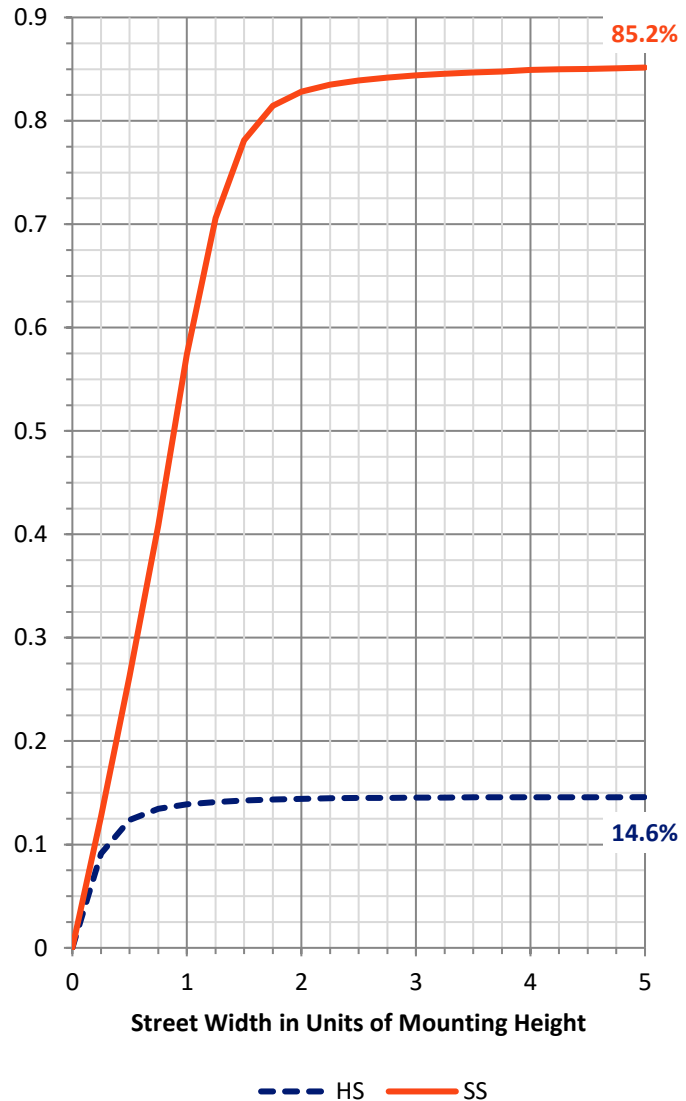
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1424.6	0.0	1424.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	8266.8	0.0	8266.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	9691.4	0.0	9691.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	1.2
10°-20°	312.7	3.2
20°-30°	544.5	5.6
30°-40°	981.3	10.1
40°-50°	1946.3	20.1
50°-60°	2651.2	27.4
60°-70°	2116.2	21.8
70°-80°	957.6	9.9
80°-90°	68.8	0.7
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°	9691.4	100.0
0°-180°	9691.4	100.0

Coefficient of Utilization



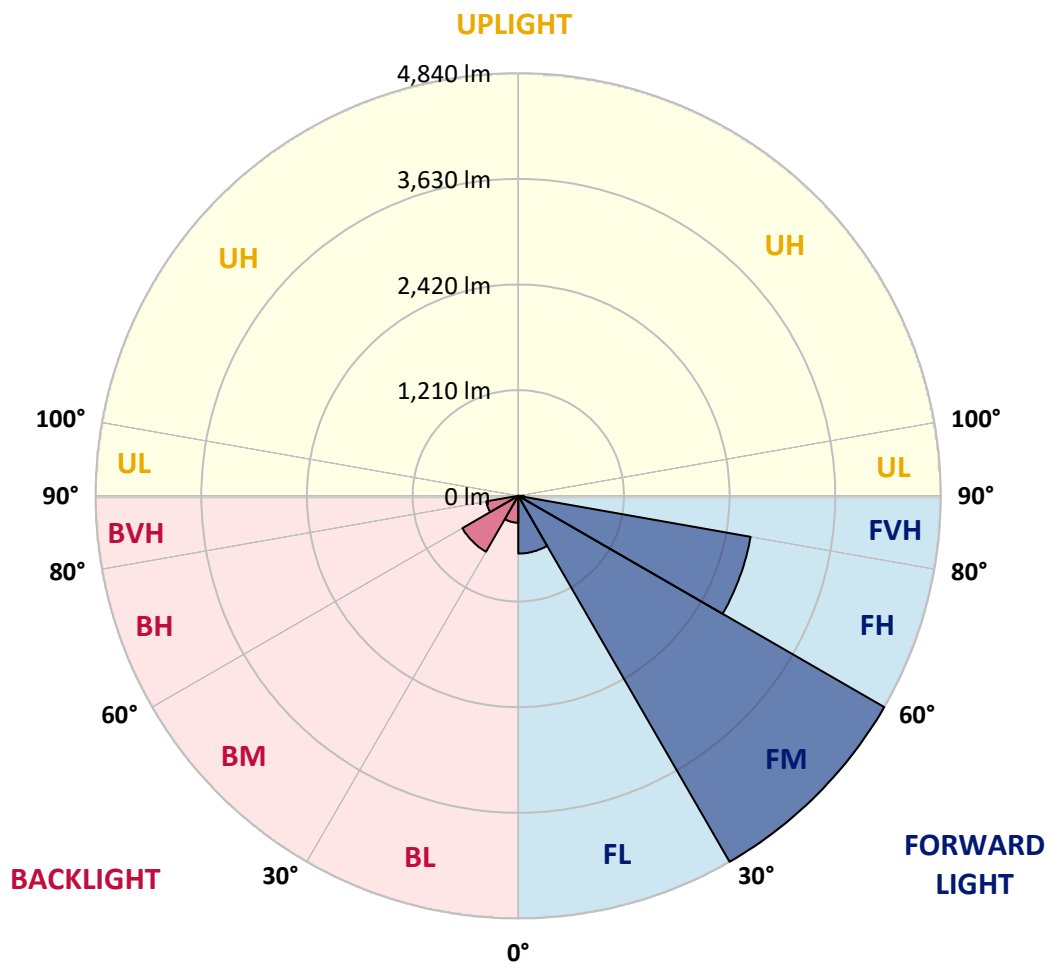
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	661.6	6.8			
FM (30°-60°)	4839.6	49.9			
FH (60°-80°)	2701.9	27.9			G2/5000
FVH (80°-90°)	63.7	0.7			G1/100
BL (0°-30°)	308.3	3.2	B1/500		
BM (30°-60°)	739.3	7.6	B1/1000		
BH (60°-80°)	371.9	3.8	B1/500		G1/500
BVH (80°-90°)	5.1	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1
2.5°	1224.1	1220.8	1225.4	1223.4	1222.1	1219.4	1218.1	1216.8	1214.1	1212.1	1204.1
5°	1227.4	1225.4	1230.1	1234.1	1238.1	1242.1	1244.1	1246.8	1244.1	1238.8	1230.7
7.5°	1199.5	1198.1	1208.1	1220.1	1238.1	1253.5	1270.1	1279.4	1280.1	1278.1	1269.5
10°	1197.4	1194.1	1204.1	1218.7	1242.1	1269.5	1298.8	1318.8	1321.4	1330.1	1320.8
12.5°	1228.8	1225.4	1239.4	1255.4	1279.4	1308.1	1344.1	1372.1	1376.1	1388.2	1381.5
15°	1281.5	1276.7	1292.7	1313.4	1344.1	1376.8	1414.8	1440.1	1443.4	1458.2	1446.1
17.5°	1342.7	1338.1	1356.8	1378.8	1412.1	1456.8	1500.8	1528.8	1532.8	1542.1	1520.1
20°	1421.5	1415.4	1430.1	1450.2	1485.4	1538.8	1591.4	1631.5	1630.8	1630.8	1594.8
22.5°	1512.8	1503.5	1516.1	1532.2	1565.5	1630.2	1700.2	1747.5	1747.5	1728.8	1669.5
25°	1610.8	1601.5	1615.5	1630.2	1659.5	1732.8	1814.9	1873.5	1876.2	1844.2	1749.5
27.5°	1733.5	1721.5	1732.1	1749.5	1766.8	1841.5	1938.8	2006.8	2008.2	1958.9	1825.5
30°	1969.5	1935.5	1902.2	1883.5	1891.5	1965.5	2069.5	2144.8	2151.5	2083.5	1908.1
32.5°	2401.6	2394.9	2277.5	2124.2	2044.2	2098.8	2215.5	2306.1	2310.1	2222.8	2015.5
35°	3073.0	3065.0	2876.3	2584.2	2323.6	2277.5	2392.9	2500.2	2497.5	2398.9	2154.9
37.5°	3874.3	3867.0	3618.2	3227.6	2805.5	2547.5	2621.5	2734.2	2750.9	2621.5	2334.8
40°	4559.0	4531.7	4374.4	3997.7	3445.6	2995.6	2946.9	3021.6	3038.9	2885.6	2563.5
42.5°	5077.7	5054.4	4974.4	4739.1	4220.3	3658.3	3330.2	3358.9	3378.3	3194.3	2826.2
45°	5346.4	5341.1	5373.2	5351.1	5009.8	4471.7	3878.3	3759.0	3766.3	3536.2	3124.3
47.5°	5384.4	5381.8	5527.8	5734.5	5688.4	5389.1	4581.8	4257.6	4231.7	3922.4	3448.3
50°	5160.5	5155.1	5435.2	5822.5	6141.8	6159.8	5380.4	4819.8	4762.4	4321.7	3786.3
52.5°	4445.0	4443.7	4903.7	5548.4	6301.2	6834.6	6169.9	5437.1	5341.1	4744.4	4143.7
55°	3420.3	3444.9	3972.3	4734.4	6010.5	7159.2	6878.6	6122.5	5975.1	5169.8	4473.0
57.5°	2422.9	2458.9	2980.3	3658.9	5109.1	6967.2	7358.0	6809.3	6650.5	5593.8	4807.0
60°	1301.4	1333.4	1855.5	2665.5	3801.0	6251.2	7610.6	7405.3	7255.3	5996.5	5108.4
62.5°	775.4	786.1	1002.0	1720.8	2570.9	4775.7	7503.3	7859.3	7736.0	6334.5	5370.5
65°	556.7	558.7	667.4	1050.7	1560.8	2901.6	6750.5	8076.7	8038.7	6589.2	5564.4
67.5°	468.7	467.4	512.7	698.0	1063.4	1453.4	5173.8	7769.3	7930.6	6750.5	5674.5
70°	402.0	404.1	457.4	511.4	799.4	822.8	2572.2	6764.6	7108.6	6793.2	5667.8
72.5°	299.4	306.1	355.4	466.1	603.4	566.0	888.1	5015.7	5637.8	6400.5	5373.8
75°	211.4	214.6	250.0	392.1	450.1	412.0	453.4	2592.8	3390.3	4907.1	4398.4
77.5°	162.7	168.7	189.3	274.0	443.4	289.4	277.4	897.4	1378.8	2964.2	3015.5
80°	88.0	98.7	136.6	198.0	311.4	204.7	137.4	357.3	467.4	1386.1	1162.8
82.5°	45.3	50.6	95.3	142.7	177.3	178.7	68.0	148.7	192.7	428.0	159.4
85°	18.0	22.0	64.0	78.7	91.3	88.0	30.6	60.0	69.3	118.7	48.7
87.5°	4.0	6.7	23.4	18.0	17.3	18.7	7.4	14.0	13.3	14.0	8.7
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°	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1
2.5°	1203.5	1200.8	1193.4	1185.4	1176.1	1170.8	1167.5	1166.8	1162.1	1158.8	1162.1
5°	1223.4	1220.8	1206.7	1190.1	1172.1	1158.0	1144.7	1132.7	1115.4	1112.1	1110.8
7.5°	1263.4	1256.1	1233.5	1210.7	1176.8	1136.1	1086.8	1030.1	979.4	964.1	956.7
10°	1312.8	1302.8	1274.1	1234.1	1158.8	1048.1	928.8	818.1	730.1	705.4	696.1
12.5°	1368.8	1360.1	1322.1	1248.1	1083.4	882.7	700.1	562.7	477.3	456.0	450.1
15°	1435.4	1422.8	1370.1	1226.7	948.7	670.8	480.7	399.3	368.7	364.7	360.7
17.5°	1506.1	1485.4	1412.8	1150.0	767.4	476.7	371.4	348.0	334.7	330.7	328.7
20°	1570.8	1544.2	1438.1	1034.1	573.4	371.4	332.7	317.3	305.3	300.7	298.1
22.5°	1635.5	1597.5	1438.1	876.1	430.0	329.3	305.3	291.4	277.4	271.3	268.0
25°	1702.8	1652.1	1412.8	700.1	346.0	302.1	279.3	264.0	252.0	244.7	242.0
27.5°	1768.1	1698.1	1354.7	533.4	308.0	278.0	255.3	240.7	229.4	224.1	224.1
30°	1830.1	1743.5	1273.5	404.7	283.3	254.7	233.4	220.7	209.3	204.0	204.7
32.5°	1914.2	1800.8	1186.7	332.0	262.0	232.7	213.3	201.3	191.4	187.4	187.4
35°	2030.8	1885.5	1112.1	326.1	244.1	214.6	195.4	184.0	174.0	170.7	170.7
37.5°	2196.2	2022.1	1072.8	366.0	229.4	198.6	180.7	168.7	159.4	156.7	156.0
40°	2400.2	2207.5	1094.1	406.0	219.4	184.7	167.4	155.4	147.4	144.0	143.3
42.5°	2642.2	2436.2	1212.1	436.8	212.7	172.7	154.7	141.3	136.0	134.7	134.7
45°	2920.2	2687.5	1392.8	469.3	202.0	161.3	142.0	132.0	128.0	127.3	126.7
47.5°	3236.2	2963.6	1602.2	510.0	191.4	150.7	132.0	125.4	122.0	120.6	120.6
50°	3549.7	3241.6	1817.5	532.7	182.7	140.6	124.0	118.7	116.0	115.3	115.3
52.5°	3877.7	3527.6	1991.5	511.4	175.4	132.6	117.4	113.4	110.7	110.0	110.0
55°	4190.3	3759.0	2021.5	434.0	160.7	124.6	110.0	108.0	104.7	104.7	104.0
57.5°	4459.7	3875.0	1809.4	318.7	146.1	112.6	102.7	100.7	98.0	97.4	96.7
60°	4707.0	3841.7	1396.8	214.6	130.0	100.7	93.4	92.0	89.4	86.0	85.4
62.5°	4846.4	3695.0	955.4	140.0	114.0	88.0	82.7	82.0	76.1	69.3	68.0
65°	4899.1	3393.6	596.0	102.0	95.3	75.3	71.3	70.0	61.3	54.0	53.3
67.5°	4853.1	2897.6	300.7	80.7	75.3	62.6	58.6	58.6	52.7	46.0	45.3
70°	4669.1	2172.2	126.7	64.7	58.0	48.0	48.0	50.6	44.7	37.3	36.7
72.5°	4269.6	1461.4	67.3	49.3	43.4	34.0	39.4	41.3	35.4	28.0	28.0
75°	3394.3	891.4	46.6	36.7	27.4	24.0	30.0	31.4	24.0	18.7	18.0
77.5°	2321.5	512.1	31.4	23.4	17.3	14.0	20.7	19.4	12.7	8.7	9.3
80°	1019.5	213.3	18.0	10.7	6.7	5.3	7.4	5.3	4.0	2.7	2.7
82.5°	119.3	50.0	6.7	4.0	2.7	1.3	0.7	0.0	0.0	0.0	0.0
85°	24.7	6.0	3.4	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	1.3	0.7	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)