

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: P882889

Luminaire Tested: **NAV-SB3A-722-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10729 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

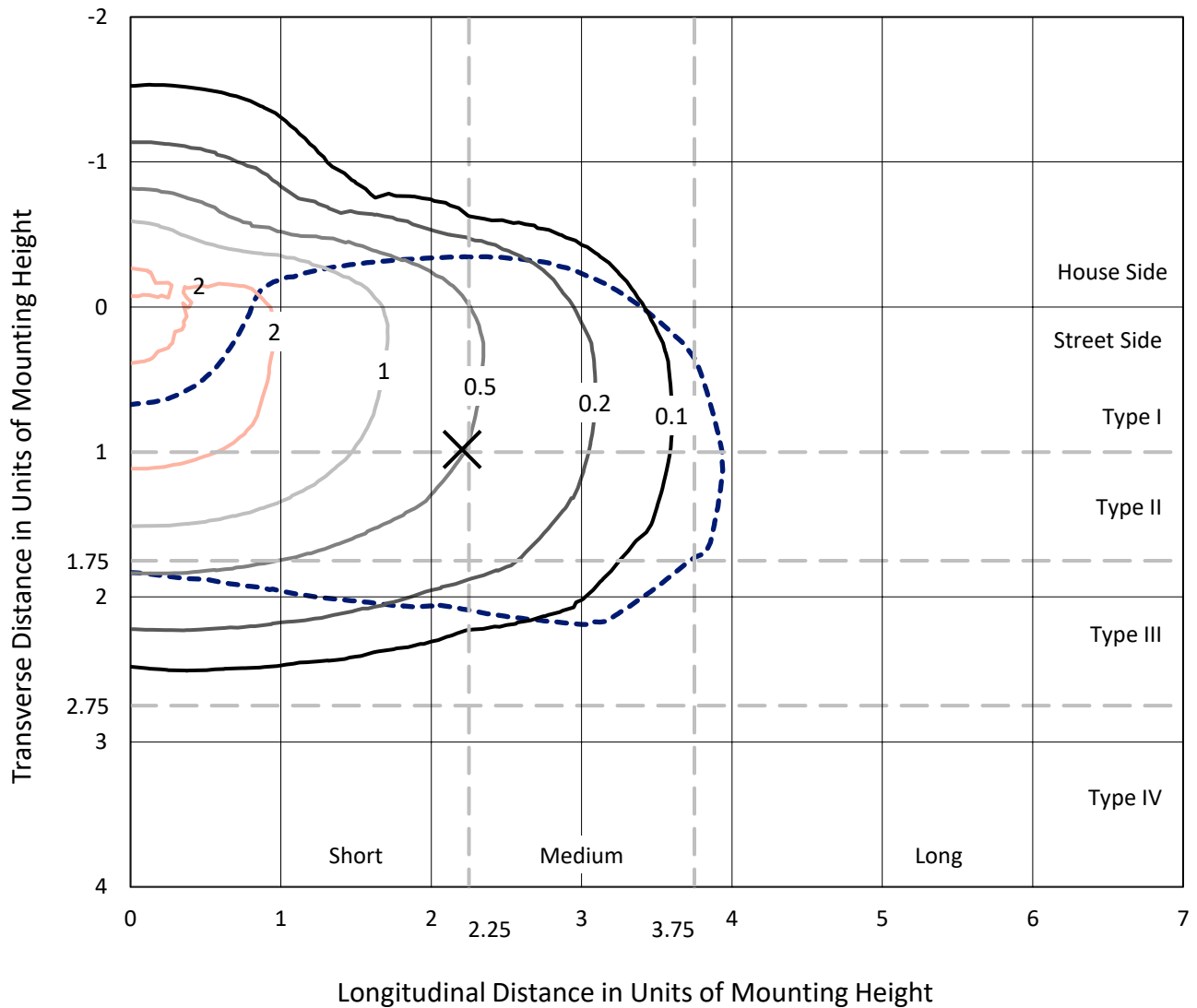
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P882889
 CATALOG NUMBER: NAV-SB3A-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

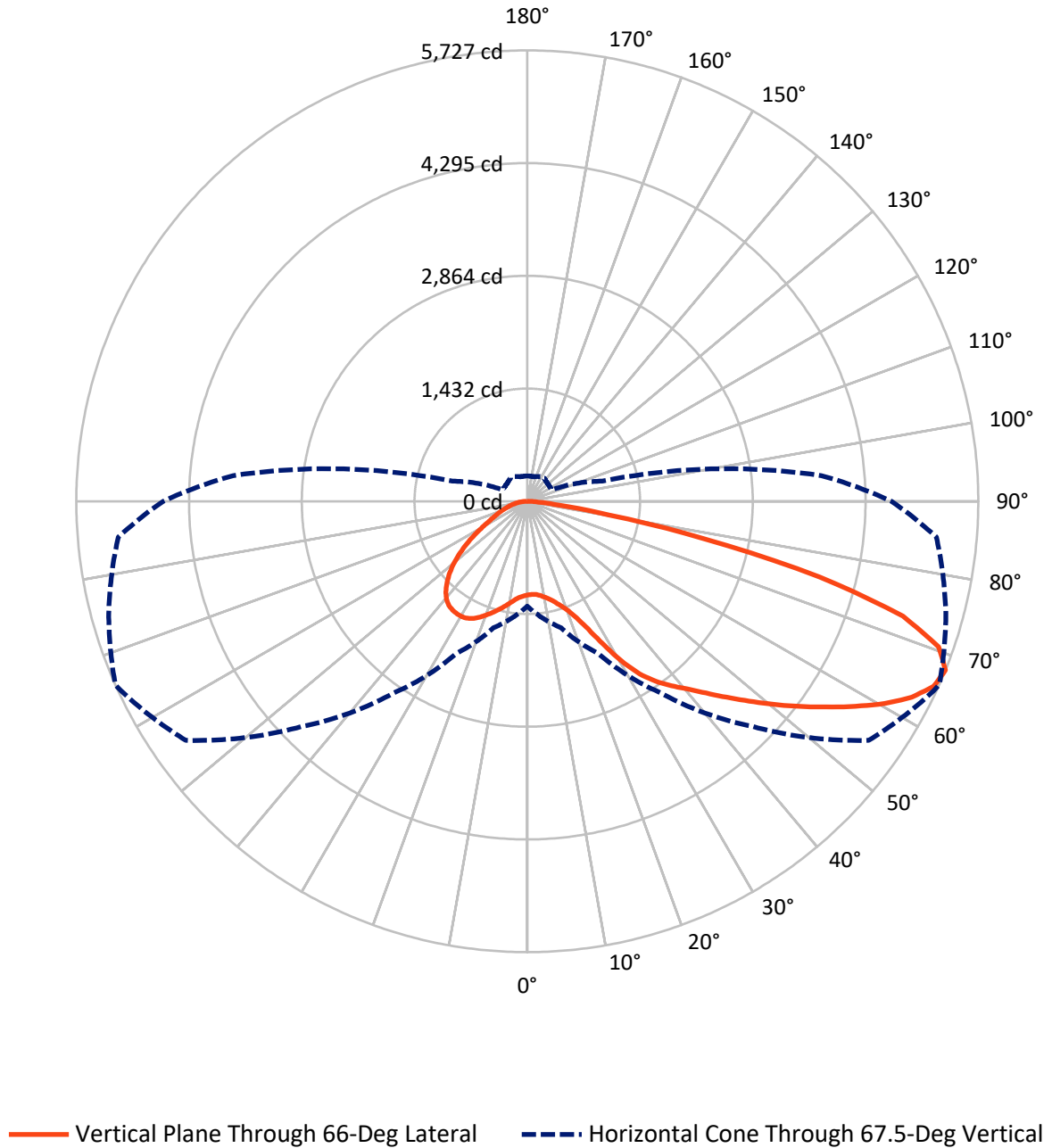
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - N/A

REPORT NUMBER: P882889
CATALOG NUMBER: NAV-SB3A-722-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P882889
 CATALOG NUMBER: NAV-SB3A-722-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2667.7	0.0	2667.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	8061.3	0.0	8061.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	10729.0	0.0	10729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	1.1
10°-20°	389.8	3.6
20°-30°	751.3	7.0
30°-40°	1317.3	12.3
40°-50°	1958.4	18.3
50°-60°	2482.5	23.1
60°-70°	2429.1	22.6
70°-80°	1158.7	10.8
80°-90°	123.8	1.2
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°	10729.0	100.0
0°-180°	10729.0	100.0

Coefficient of Utilization



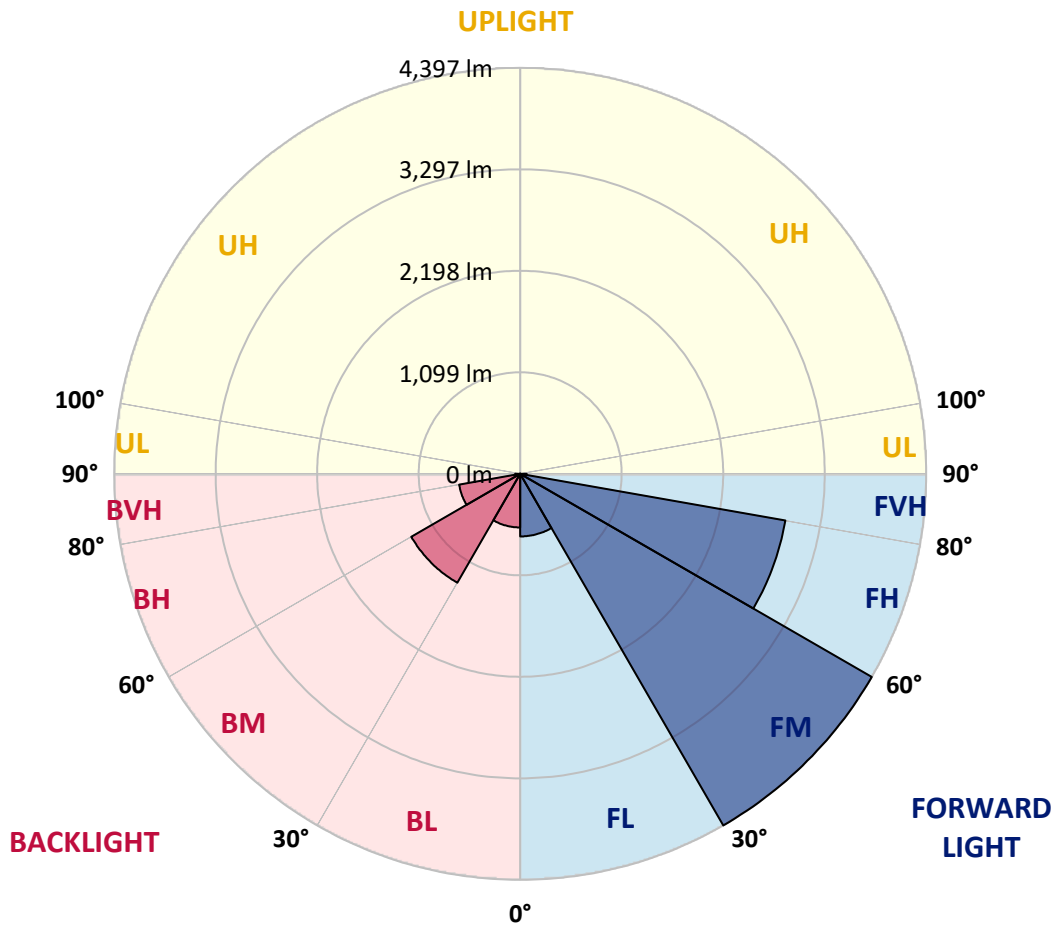
REPORT NUMBER: P882889
 CATALOG NUMBER: NAV-SB3A-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	678.0	6.3			
FM (30°-60°)	4396.7	41.0			
FH (60°-80°)	2916.4	27.2			G2/5000
FVH (80°-90°)	70.2	0.7			G1/100
BL (0°-30°)	581.1	5.4	B2/1000		
BM (30°-60°)	1361.6	12.7	B2/2500		
BH (60°-80°)	671.3	6.3	B2/1000		G2/1000
BVH (80°-90°)	53.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



REPORT NUMBER: P882889
 CATALOG NUMBER: NAV-SB3A-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0
2.5°	1177.6	1184.4	1182.7	1179.8	1179.3	1180.4	1182.1	1183.8	1183.2	1186.0	1190.6
5°	1174.2	1181.0	1180.4	1180.4	1182.7	1187.2	1190.0	1192.8	1190.0	1193.4	1199.6
7.5°	1176.5	1181.5	1183.8	1186.0	1191.7	1200.1	1206.9	1213.1	1209.7	1213.7	1221.6
10°	1205.2	1209.2	1211.4	1211.4	1215.4	1224.9	1231.7	1243.0	1240.2	1246.4	1256.5
12.5°	1257.6	1261.6	1261.6	1259.3	1262.1	1268.3	1270.6	1283.0	1277.9	1288.1	1298.2
15°	1321.9	1329.8	1323.6	1319.6	1320.8	1327.0	1326.4	1336.0	1330.9	1339.4	1348.4
17.5°	1392.9	1403.1	1392.9	1392.4	1390.1	1396.9	1397.4	1405.9	1396.9	1403.1	1409.3
20°	1476.9	1491.0	1482.6	1485.4	1480.3	1483.1	1485.9	1498.3	1484.2	1488.8	1487.1
22.5°	1595.3	1612.2	1603.2	1613.9	1610.5	1608.3	1607.7	1629.7	1607.7	1609.4	1593.0
25°	1767.8	1788.1	1772.3	1787.0	1787.0	1794.3	1802.7	1830.9	1794.3	1783.6	1741.3
27.5°	2022.6	2042.9	2011.9	2020.9	2018.1	2036.1	2027.1	2097.0	2057.5	2040.1	1954.9
30°	2329.2	2365.3	2306.7	2304.4	2301.6	2330.4	2343.3	2389.6	2349.5	2332.1	2229.5
32.5°	2660.7	2698.5	2628.6	2608.3	2597.6	2615.0	2604.3	2641.5	2613.9	2586.9	2460.0
35°	3011.3	3048.5	2982.0	2942.6	2899.7	2863.1	2824.7	2834.3	2808.4	2767.2	2635.9
37.5°	3342.8	3411.0	3340.5	3298.3	3219.3	3147.7	3040.6	2996.1	2971.9	2934.1	2801.6
40°	3680.5	3719.3	3665.8	3629.7	3544.0	3431.9	3260.5	3166.3	3133.7	3097.0	2984.8
42.5°	3929.0	3966.3	3937.5	3912.7	3845.6	3715.4	3493.9	3376.0	3328.7	3287.5	3192.3
45°	4126.3	4154.0	4135.9	4144.9	4116.2	3989.9	3735.7	3601.0	3551.9	3501.8	3426.8
47.5°	4205.8	4235.1	4263.9	4317.4	4366.5	4273.5	3995.6	3844.5	3792.6	3741.3	3667.5
50°	4196.8	4226.7	4310.1	4424.0	4576.2	4545.2	4269.5	4103.8	4055.9	3997.3	3929.0
52.5°	4124.7	4158.5	4265.6	4455.0	4697.4	4748.7	4548.6	4371.6	4326.5	4256.6	4188.4
55°	3935.2	3955.5	4116.2	4384.5	4726.1	4890.7	4822.0	4656.8	4611.7	4514.2	4439.8
57.5°	3584.1	3613.4	3847.3	4194.6	4654.0	4987.1	5062.1	4956.7	4913.3	4772.9	4695.1
60°	3125.8	3172.5	3440.3	3875.5	4470.2	4986.6	5280.3	5251.5	5215.4	5027.7	4946.5
62.5°	2607.2	2661.3	2918.9	3424.5	4148.9	4845.1	5416.7	5498.4	5479.8	5262.8	5159.1
65°	2002.3	2039.5	2296.0	2841.1	3648.9	4541.2	5432.5	5667.0	5670.3	5441.5	5270.1
67.5°	1333.2	1440.3	1662.9	2131.9	2979.2	4044.6	5293.8	5694.6	5727.3	5502.9	5214.3
70°	650.5	791.4	1009.6	1385.6	2131.9	3283.0	4931.3	5468.0	5540.7	5323.7	4881.7
72.5°	270.0	315.7	434.6	683.8	1223.8	2215.4	4203.0	4853.5	4988.3	4717.1	4104.4
75°	182.1	197.3	248.6	350.6	557.5	1092.5	3031.1	3619.0	3836.0	3562.6	2912.1
77.5°	140.4	149.9	181.0	245.2	331.5	413.2	1622.4	2181.0	2293.2	2122.9	1515.2
80°	110.5	117.8	135.3	178.7	235.1	221.0	553.0	988.2	1053.0	883.3	487.0
82.5°	95.8	98.6	97.0	121.2	156.1	129.1	181.5	364.7	402.5	292.0	159.0
85°	69.3	77.2	80.6	75.0	82.9	65.4	74.4	129.1	142.1	126.8	89.6
87.5°	28.2	41.7	51.3	48.5	30.4	18.6	23.1	37.8	43.4	47.4	29.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P882889
 CATALOG NUMBER: NAV-SB3A-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0
2.5°	1191.1	1195.1	1197.9	1201.3	1203.5	1206.9	1213.7	1217.6	1218.2	1221.0	1220.4
5°	1201.8	1207.5	1213.7	1222.7	1232.8	1241.3	1254.3	1263.3	1266.7	1269.5	1268.9
7.5°	1224.9	1232.8	1244.1	1259.9	1274.5	1285.8	1301.6	1312.3	1323.0	1327.0	1327.5
10°	1259.3	1270.6	1286.9	1308.4	1324.2	1338.8	1355.2	1364.2	1374.9	1379.4	1381.6
12.5°	1302.2	1314.0	1335.4	1365.3	1380.0	1390.1	1395.7	1393.5	1395.7	1399.7	1400.8
15°	1351.2	1364.2	1388.4	1420.5	1430.7	1421.7	1409.3	1398.0	1396.3	1397.4	1401.4
17.5°	1409.3	1418.9	1447.0	1474.1	1466.8	1429.6	1402.5	1384.5	1375.4	1372.6	1376.6
20°	1490.4	1490.4	1513.6	1530.5	1481.4	1418.3	1376.0	1346.7	1328.1	1320.2	1318.5
22.5°	1589.1	1580.1	1594.7	1582.9	1478.6	1386.7	1328.1	1277.4	1249.2	1237.9	1236.2
25°	1714.2	1703.5	1699.6	1626.3	1458.3	1336.6	1241.3	1179.8	1155.0	1148.8	1150.0
27.5°	1903.1	1876.0	1824.7	1650.0	1421.1	1257.6	1139.8	1082.9	1068.8	1069.4	1071.0
30°	2154.5	2100.4	1974.7	1653.9	1360.2	1146.0	1036.1	995.5	988.7	991.6	1001.1
32.5°	2387.3	2336.0	2128.0	1635.9	1266.7	1036.7	943.1	916.0	905.9	909.3	913.8
35°	2569.9	2555.9	2270.1	1610.5	1151.7	934.1	859.7	836.5	816.8	812.3	815.7
37.5°	2742.4	2736.8	2376.6	1575.0	1037.8	861.3	792.6	762.1	733.4	717.6	718.2
40°	2931.8	2926.2	2446.5	1520.3	936.9	798.2	732.3	692.2	656.7	628.0	630.8
42.5°	3144.9	3111.7	2479.8	1442.0	851.2	744.7	683.2	629.1	582.3	555.8	557.5
45°	3377.7	3302.8	2479.2	1342.2	779.0	695.6	630.8	554.1	510.7	485.9	484.8
47.5°	3624.6	3485.4	2448.7	1231.7	709.1	641.5	549.6	491.0	462.2	447.0	443.6
50°	3879.4	3656.2	2396.9	1104.9	637.6	580.1	498.9	458.9	436.9	422.8	417.7
52.5°	4119.0	3811.2	2334.3	961.1	564.8	520.3	476.3	445.3	422.2	406.4	399.7
55°	4341.7	3944.8	2245.8	814.0	505.6	480.3	465.6	439.7	413.2	394.6	387.3
57.5°	4539.5	4031.6	2093.0	675.9	463.4	452.7	454.3	430.1	399.7	383.9	373.7
60°	4704.1	4095.3	1867.0	547.9	429.0	425.6	436.9	412.1	376.6	358.5	350.6
62.5°	4802.8	4094.2	1589.7	448.7	399.7	400.8	413.8	389.5	353.4	336.5	331.5
65°	4794.3	3993.9	1285.3	383.9	371.5	372.6	389.5	364.7	334.3	324.1	323.6
67.5°	4624.7	3749.2	985.9	341.6	340.5	345.6	365.3	347.8	322.4	321.3	323.0
70°	4165.2	3241.3	710.3	307.8	308.3	315.7	341.6	337.1	316.2	318.5	317.9
72.5°	3340.0	2471.3	476.9	272.3	272.8	284.7	319.1	328.6	310.0	339.9	344.4
75°	2224.4	1541.2	306.7	234.5	235.1	250.3	299.3	312.3	293.1	338.8	341.6
77.5°	1068.8	692.8	222.1	197.3	197.3	211.4	258.7	279.6	249.7	263.3	241.3
80°	369.2	260.4	174.7	159.0	155.6	165.2	218.2	242.4	215.3	198.4	186.0
82.5°	145.4	135.3	140.4	123.5	112.2	118.4	169.7	200.1	158.4	143.2	142.6
85°	83.4	87.9	99.2	81.7	64.8	72.7	124.6	143.7	119.5	105.4	107.7
87.5°	22.5	31.0	45.7	42.3	29.3	31.0	59.2	79.5	68.8	53.0	54.7
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)