

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: P961910

Luminaire Tested: **NAV-SB2B-730-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-730-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11550.7 lumens
Efficiency: N/A
Efficacy: 156.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

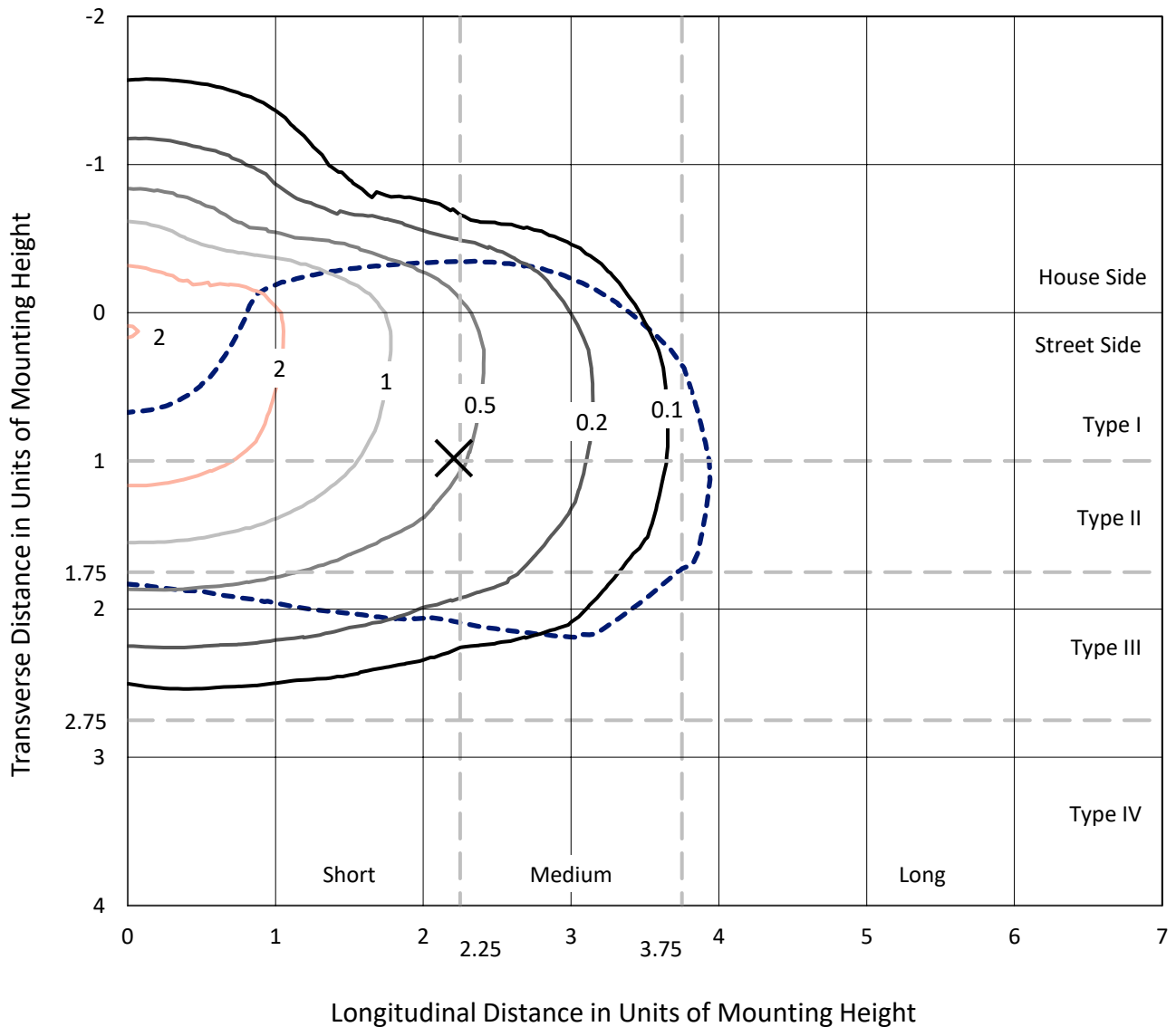
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

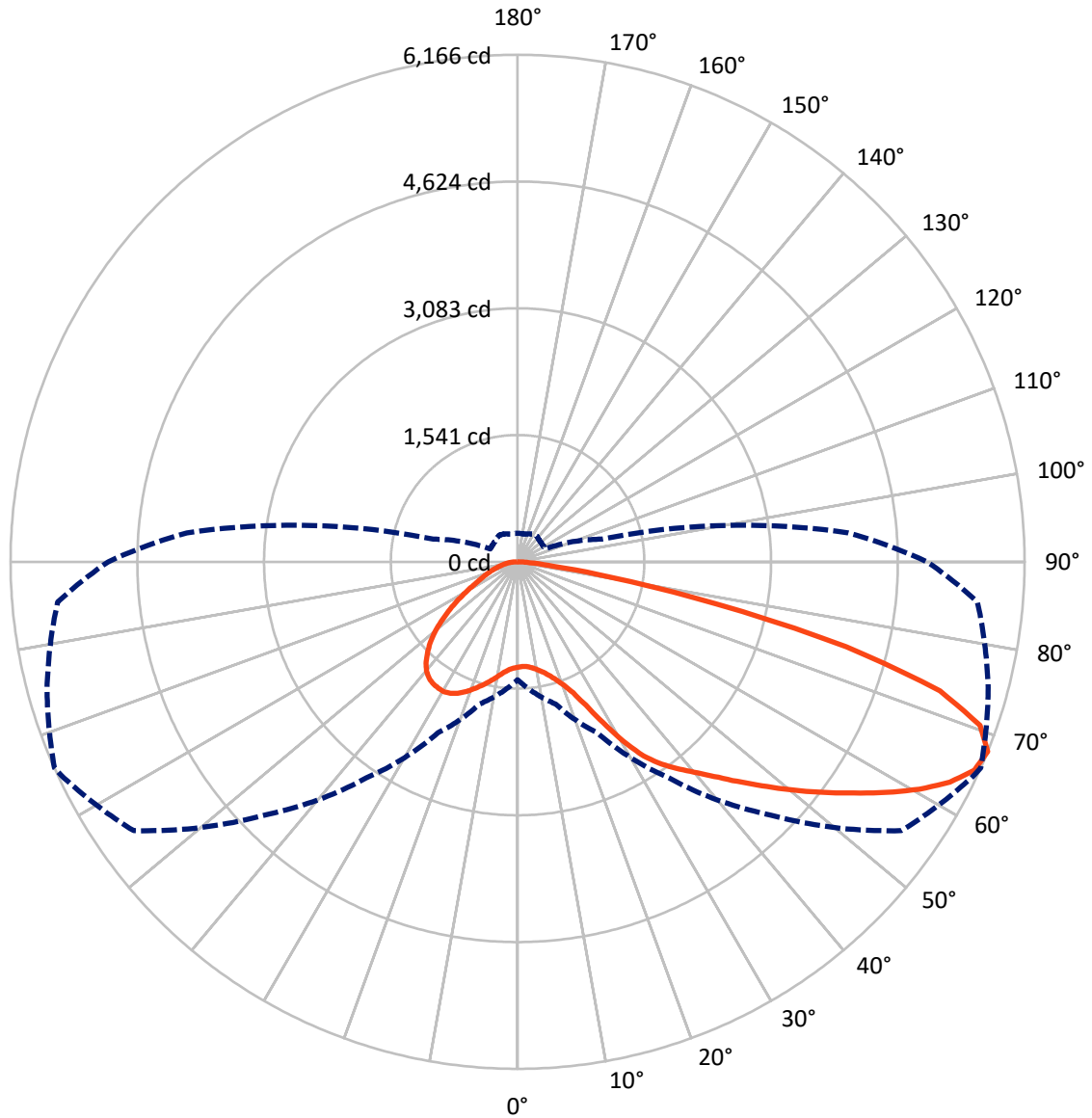
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2872.1	0.0	2872.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	8678.7	0.0	8678.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	11550.7	0.0	11550.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.0	1.1
10°-20°	419.7	3.6
20°-30°	808.9	7.0
30°-40°	1418.2	12.3
40°-50°	2108.4	18.3
50°-60°	2672.7	23.1
60°-70°	2615.1	22.6
70°-80°	1247.4	10.8
80°-90°	133.3	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°	11550.7	100.0
0°-180°	11550.7	100.0

Coefficient of Utilization



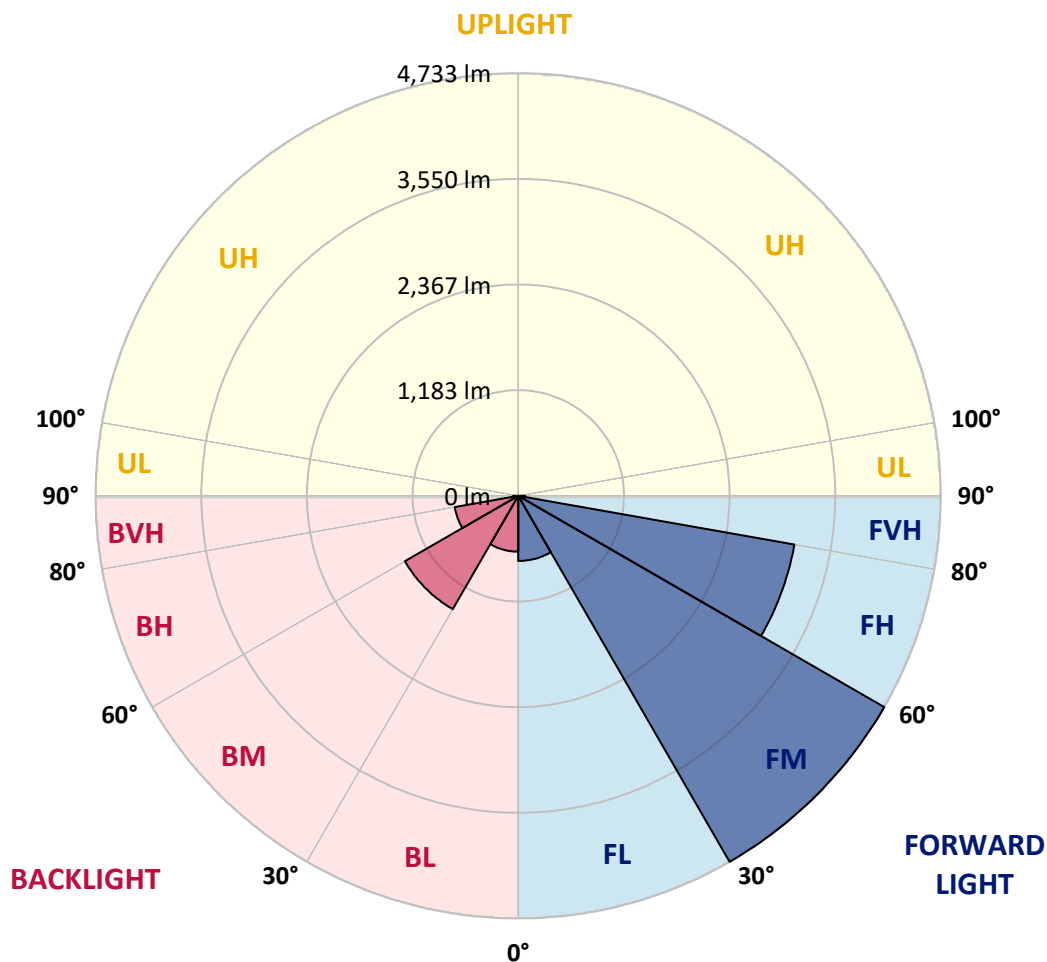
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	729.9	6.3			
FM (30°-60°)	4733.4	41.0			
FH (60°-80°)	3139.8	27.2			G2/5000
FVH (80°-90°)	75.6	0.7			G1/100
BL (0°-30°)	625.6	5.4	B2/1000		
BM (30°-60°)	1465.9	12.7	B2/2500		
BH (60°-80°)	722.8	6.3	B2/1000		G2/1000
BVH (80°-90°)	57.7	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1
2.5°	1267.8	1275.1	1273.3	1270.2	1269.6	1270.8	1272.6	1274.5	1273.9	1276.8	1281.8
5°	1264.1	1271.4	1270.8	1270.8	1273.3	1278.1	1281.1	1284.1	1281.1	1284.7	1291.4
7.5°	1266.6	1272.0	1274.5	1276.8	1283.0	1292.0	1299.3	1306.1	1302.4	1306.6	1315.1
10°	1297.5	1301.8	1304.2	1304.2	1308.4	1318.8	1326.0	1338.1	1335.2	1341.8	1352.7
12.5°	1353.9	1358.2	1358.2	1355.8	1358.8	1365.5	1367.9	1381.3	1375.8	1386.7	1397.7
15°	1423.1	1431.6	1425.0	1420.8	1421.9	1428.6	1428.0	1438.3	1432.8	1442.0	1451.7
17.5°	1499.6	1510.5	1499.6	1499.0	1496.6	1503.9	1504.5	1513.5	1503.9	1510.5	1517.2
20°	1590.0	1605.3	1596.1	1599.1	1593.7	1596.7	1599.7	1613.0	1597.9	1602.8	1600.9
22.5°	1717.5	1735.6	1726.0	1737.5	1733.9	1731.4	1730.8	1754.5	1730.8	1732.7	1715.0
25°	1903.2	1925.1	1908.0	1923.8	1923.8	1931.7	1940.8	1971.2	1931.7	1920.1	1874.6
27.5°	2177.5	2199.3	2165.9	2175.7	2172.6	2192.1	2182.3	2257.6	2215.1	2196.3	2104.6
30°	2507.7	2546.5	2483.4	2480.9	2477.9	2508.9	2522.8	2572.5	2529.5	2510.6	2400.2
32.5°	2864.5	2905.2	2829.9	2808.1	2796.5	2815.4	2803.8	2843.9	2814.1	2785.0	2648.4
35°	3242.0	3282.0	3210.4	3168.0	3121.8	3082.4	3041.1	3051.4	3023.4	2979.2	2837.8
37.5°	3598.8	3672.3	3596.4	3550.9	3465.9	3388.9	3273.5	3225.6	3199.4	3158.8	3016.2
40°	3962.3	4004.2	3946.6	3907.7	3815.5	3694.7	3510.2	3408.8	3373.7	3334.2	3213.5
42.5°	4230.0	4270.0	4239.1	4212.3	4140.2	4000.0	3761.4	3634.6	3583.6	3539.3	3436.7
45°	4442.3	4472.1	4452.7	4462.4	4431.5	4295.5	4021.8	3876.8	3824.0	3770.0	3689.3
47.5°	4527.9	4559.5	4590.5	4648.1	4701.0	4600.8	4301.6	4139.0	4083.1	4027.8	3948.4
50°	4518.2	4550.4	4640.2	4762.8	4926.7	4893.2	4596.5	4418.1	4366.5	4303.4	4230.0
52.5°	4440.5	4477.0	4592.3	4796.2	5057.1	5112.4	4896.9	4706.4	4657.8	4582.6	4509.2
55°	4236.6	4258.5	4431.5	4720.3	5088.1	5265.3	5191.3	5013.5	4964.9	4859.9	4779.8
57.5°	3858.5	3890.1	4141.9	4515.8	5010.4	5369.1	5449.8	5336.4	5289.6	5138.4	5054.7
60°	3365.2	3415.5	3703.8	4172.4	4812.6	5368.4	5684.6	5653.7	5614.8	5412.8	5325.4
62.5°	2806.9	2865.1	3142.4	3686.8	4466.6	5216.1	5831.5	5919.5	5899.5	5665.9	5554.2
65°	2155.7	2195.7	2471.8	3058.7	3928.3	4889.0	5848.5	6101.0	6104.6	5858.2	5673.8
67.5°	1435.3	1550.6	1790.3	2295.2	3207.3	4354.4	5699.2	6130.7	6165.9	5924.4	5613.6
70°	700.4	852.1	1086.9	1491.7	2295.2	3534.5	5309.0	5886.8	5965.1	5731.4	5255.6
72.5°	290.7	339.9	467.9	736.2	1317.5	2385.1	4524.9	5225.2	5370.3	5078.4	4418.7
75°	196.0	212.4	267.6	377.5	600.2	1176.2	3263.2	3896.2	4129.8	3835.4	3135.2
77.5°	151.1	161.4	194.9	264.0	356.8	444.8	1746.6	2348.1	2468.8	2285.5	1631.3
80°	118.9	126.8	145.7	192.4	253.1	237.9	595.3	1063.8	1133.6	951.0	524.4
82.5°	103.2	106.2	104.3	130.5	168.1	139.0	195.4	392.7	433.3	314.4	171.2
85°	74.6	83.1	86.8	80.7	89.2	70.4	80.2	139.0	152.9	136.5	96.5
87.5°	30.3	44.9	55.2	52.2	32.8	20.0	24.9	40.7	46.7	50.9	31.6
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°	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1	1281.1
2.5°	1282.4	1286.6	1289.7	1293.2	1295.7	1299.3	1306.6	1310.9	1311.5	1314.5	1313.9
5°	1293.9	1299.9	1306.6	1316.3	1327.3	1336.4	1350.3	1360.1	1363.7	1366.7	1366.1
7.5°	1318.8	1327.3	1339.4	1356.4	1372.2	1384.3	1401.3	1412.9	1424.3	1428.6	1429.2
10°	1355.8	1367.9	1385.5	1408.6	1425.6	1441.4	1459.0	1468.6	1480.2	1485.0	1487.5
12.5°	1401.9	1414.6	1437.7	1469.8	1485.6	1496.6	1502.6	1500.2	1502.6	1506.9	1508.1
15°	1454.7	1468.6	1494.8	1529.3	1540.3	1530.5	1517.2	1505.1	1503.3	1504.5	1508.7
17.5°	1517.2	1527.6	1557.9	1587.0	1579.1	1539.0	1509.9	1490.5	1480.8	1477.7	1482.0
20°	1604.6	1604.6	1629.4	1647.7	1594.9	1526.9	1481.4	1449.9	1429.8	1421.4	1419.5
22.5°	1710.8	1701.1	1716.9	1704.2	1591.8	1492.9	1429.8	1375.2	1344.8	1332.7	1330.9
25°	1845.5	1834.0	1829.7	1750.9	1570.0	1438.9	1336.4	1270.2	1243.5	1236.9	1238.0
27.5°	2048.9	2019.7	1964.5	1776.3	1529.9	1353.9	1227.1	1165.8	1150.7	1151.3	1153.1
30°	2319.5	2261.3	2126.0	1780.6	1464.4	1233.8	1115.4	1071.7	1064.5	1067.5	1077.8
32.5°	2570.2	2514.9	2291.0	1761.2	1363.7	1116.0	1015.3	986.2	975.3	978.9	983.8
35°	2766.8	2751.6	2443.9	1733.9	1239.8	1005.6	925.5	900.6	879.3	874.5	878.1
37.5°	2952.5	2946.4	2558.6	1695.7	1117.2	927.3	853.3	820.5	789.6	772.5	773.2
40°	3156.4	3150.3	2633.8	1636.7	1008.6	859.4	788.3	745.3	707.0	676.1	679.1
42.5°	3385.8	3350.0	2669.7	1552.4	916.4	801.7	735.5	677.3	626.9	598.4	600.2
45°	3636.4	3555.7	2669.1	1444.9	838.8	748.9	679.1	596.6	549.8	523.2	521.9
47.5°	3902.3	3752.3	2636.3	1326.0	763.4	690.6	591.7	528.6	497.6	481.2	477.6
50°	4176.6	3936.2	2580.4	1189.5	686.3	624.5	537.1	494.0	470.4	455.2	449.7
52.5°	4434.5	4103.2	2513.1	1034.7	608.1	560.2	512.8	479.4	454.6	437.6	430.3
55°	4674.2	4247.0	2417.8	876.4	544.4	517.1	501.3	473.3	444.8	424.9	417.0
57.5°	4887.2	4340.5	2253.4	727.6	498.9	487.3	489.1	463.1	430.3	413.3	402.3
60°	5064.4	4409.0	2010.0	589.9	461.9	458.2	470.4	443.6	405.4	386.0	377.5
62.5°	5170.6	4407.8	1711.4	483.1	430.3	431.5	445.5	419.3	380.5	362.3	356.8
65°	5161.5	4299.8	1383.6	413.3	400.0	401.2	419.3	392.7	359.9	348.9	348.4
67.5°	4978.8	4036.3	1061.4	367.8	366.5	372.0	393.3	374.4	347.2	345.9	347.8
70°	4484.3	3489.6	764.6	331.4	332.0	339.9	367.8	363.0	340.5	342.9	342.2
72.5°	3595.8	2660.6	513.4	293.2	293.8	306.5	343.5	353.8	333.7	365.9	370.8
75°	2394.7	1659.2	330.2	252.5	253.1	269.5	322.3	336.2	315.6	364.7	367.8
77.5°	1150.7	745.9	239.1	212.4	212.4	227.6	278.6	301.0	268.9	283.4	259.7
80°	397.5	280.3	188.1	171.2	167.5	177.8	234.8	261.0	231.9	213.6	200.3
82.5°	156.6	145.7	151.1	132.9	120.7	127.4	182.7	215.5	170.6	154.2	153.5
85°	89.8	94.7	106.8	88.0	69.8	78.3	134.1	154.8	128.6	113.5	115.9
87.5°	24.3	33.4	49.2	45.5	31.6	33.4	63.8	85.6	74.0	57.1	58.8
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)