

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: P961844

Luminaire Tested: **NAV-SB2B-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9447.4 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

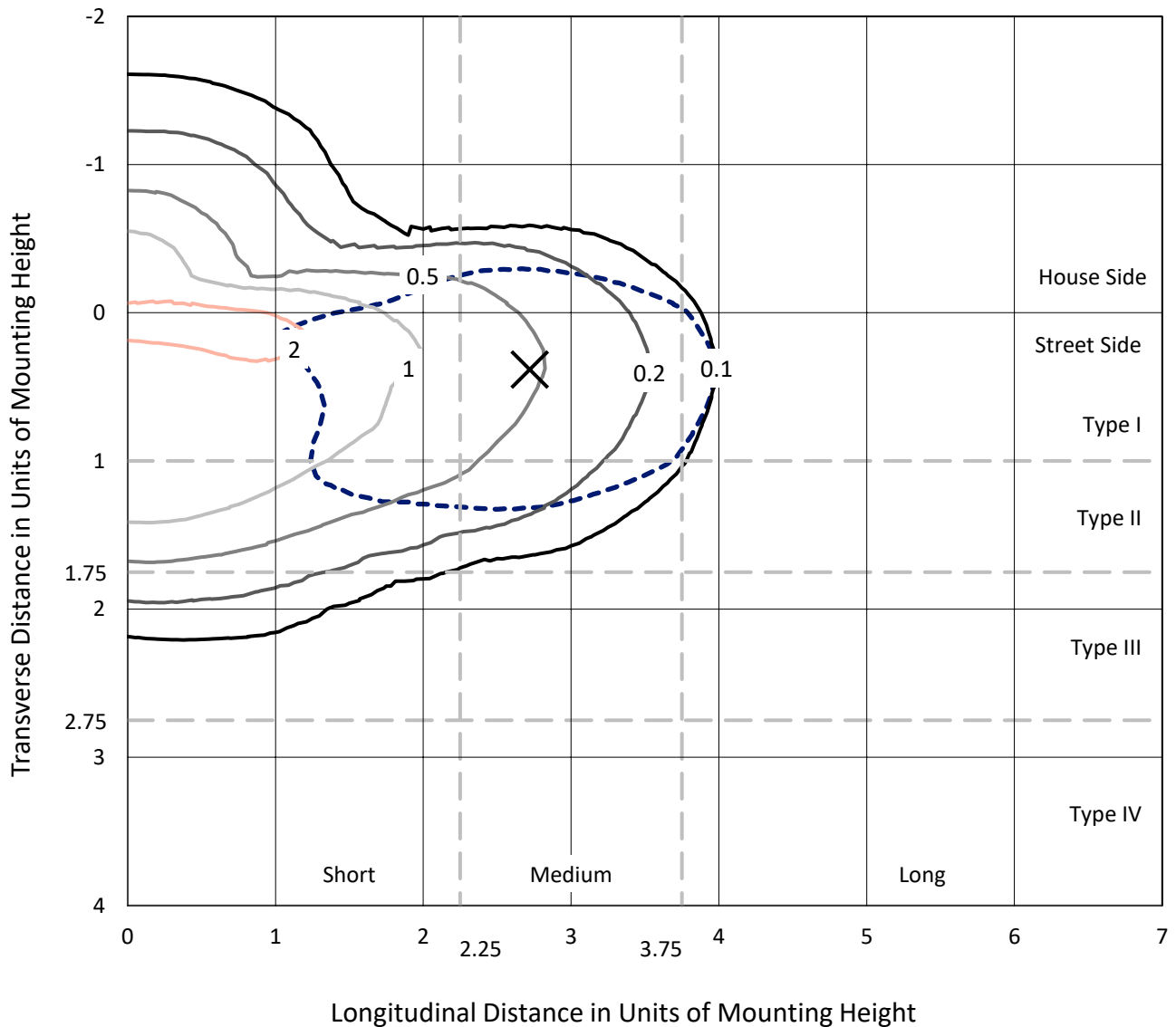
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

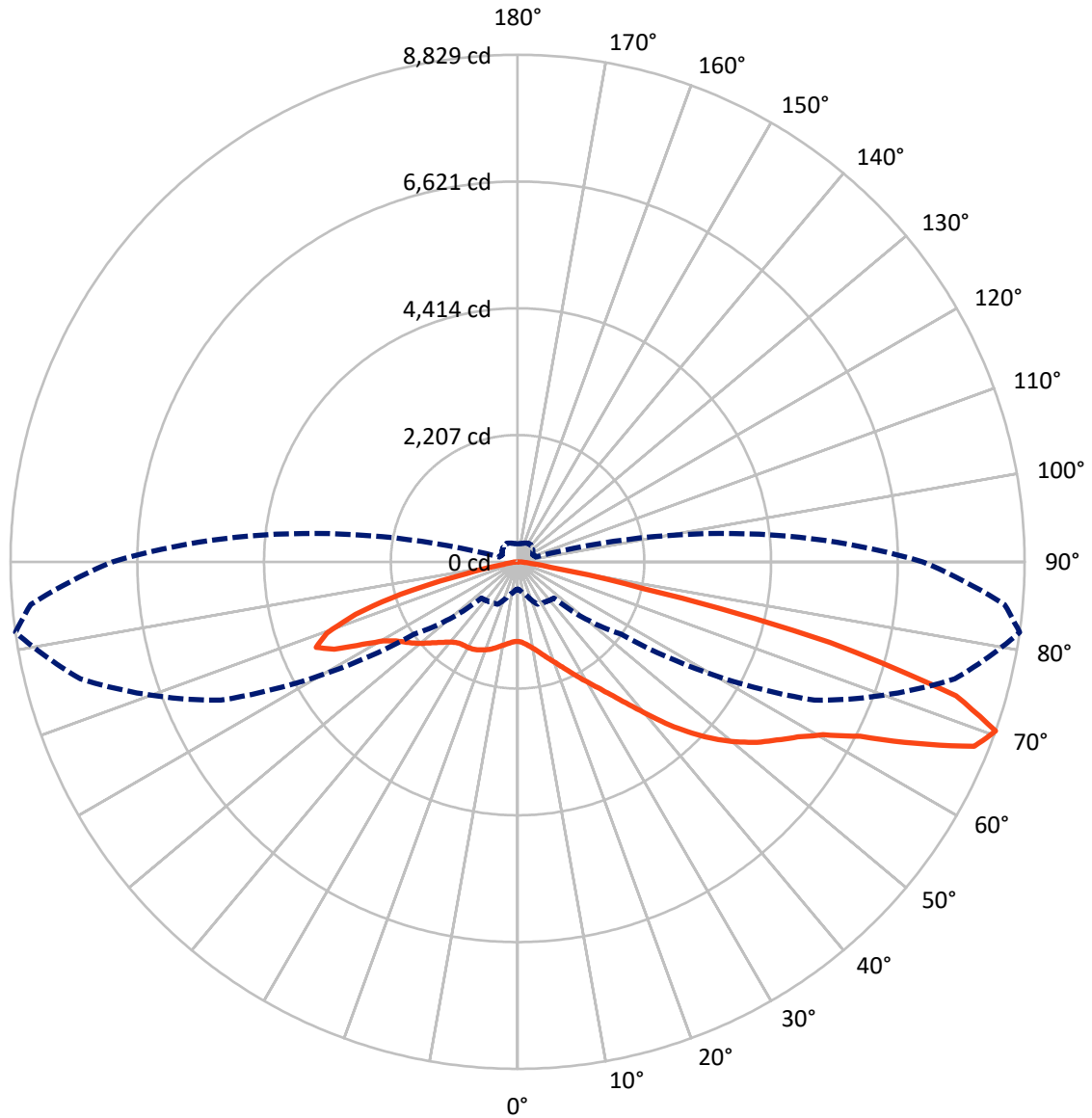
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2329.0	0.0	2329.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	7118.4	0.0	7118.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	9447.4	0.0	9447.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	1.4
10°-20°	375.7	4.0
20°-30°	628.6	6.7
30°-40°	982.0	10.4
40°-50°	1563.9	16.6
50°-60°	2176.4	23.0
60°-70°	2276.6	24.1
70°-80°	1189.9	12.6
80°-90°	123.6	1.3
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°	9447.4	100.0
0°-180°	9447.4	100.0

Coefficient of Utilization

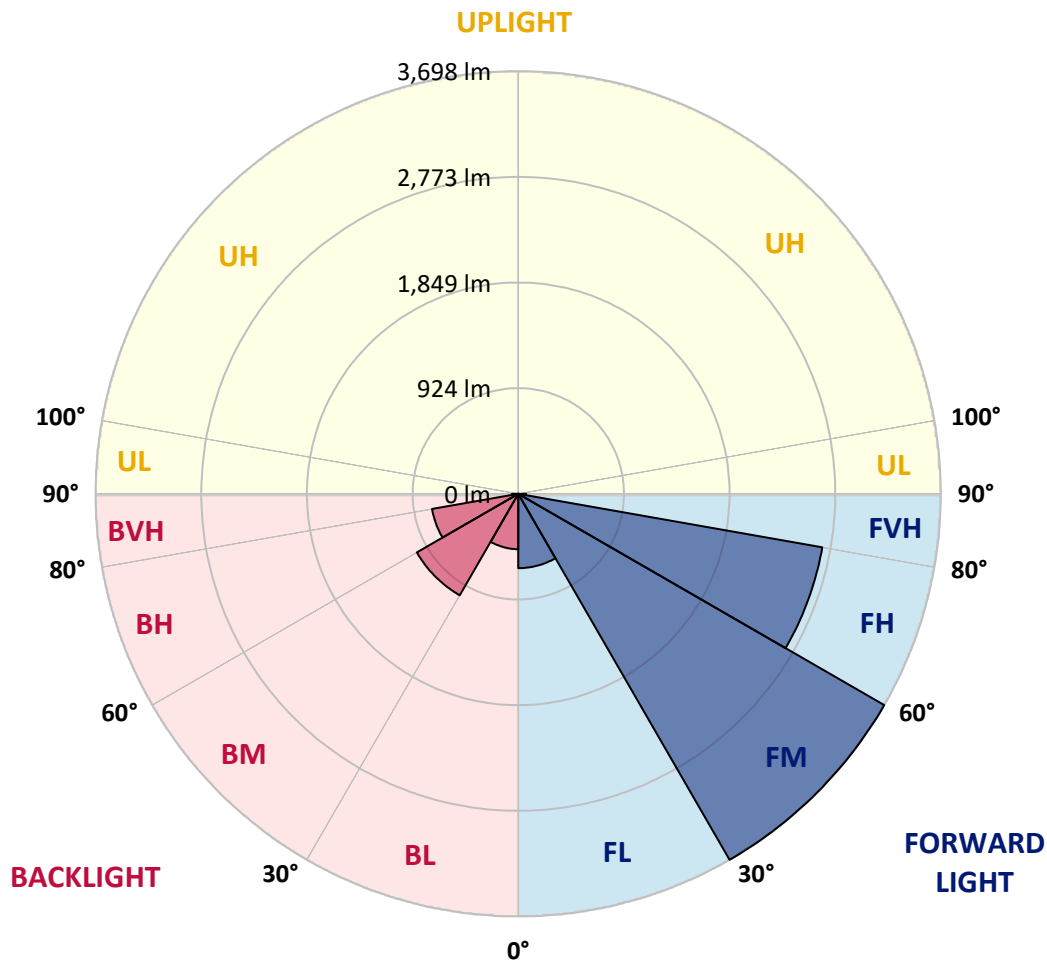


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	650.6	6.9			
FM (30°-60°)	3697.6	39.1			
FH (60°-80°)	2701.0	28.6			G2/5000
FVH (80°-90°)	69.2	0.7			G1/100
BL (0°-30°)	484.5	5.1	B1/500		
BM (30°-60°)	1024.7	10.8	B2/2500		
BH (60°-80°)	765.4	8.1	B2/1000		G2/1000
BVH (80°-90°)	54.4	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1
2.5°	1418.2	1426.2	1423.7	1421.2	1421.2	1417.7	1417.2	1412.1	1408.1	1401.7	1400.1
5°	1436.2	1444.7	1443.7	1445.8	1452.3	1453.8	1455.3	1452.3	1444.2	1436.2	1432.7
7.5°	1420.2	1429.8	1432.7	1444.7	1464.8	1482.9	1496.4	1501.9	1494.3	1482.9	1477.3
10°	1366.0	1376.6	1387.1	1415.7	1451.3	1493.9	1530.0	1551.5	1550.0	1539.0	1529.5
12.5°	1256.2	1267.3	1289.9	1345.5	1410.7	1485.8	1553.1	1598.2	1613.7	1605.7	1589.2
15°	1168.5	1178.0	1195.1	1252.2	1337.0	1451.3	1561.6	1649.3	1688.9	1684.4	1664.3
17.5°	1166.0	1170.0	1180.6	1207.7	1272.8	1397.2	1552.6	1699.4	1775.1	1774.6	1749.6
20°	1210.1	1211.7	1217.7	1223.2	1260.2	1356.1	1529.5	1741.1	1871.9	1871.9	1844.8
22.5°	1271.3	1270.3	1276.3	1271.3	1289.3	1352.5	1514.9	1777.7	1979.7	1987.7	1953.5
25°	1363.0	1358.0	1356.5	1345.0	1348.5	1385.1	1530.9	1819.3	2107.5	2124.0	2081.5
27.5°	1485.3	1477.3	1471.8	1445.2	1436.2	1452.3	1580.1	1869.4	2249.9	2278.5	2224.2
30°	1644.8	1630.3	1622.3	1576.1	1543.5	1546.0	1654.4	1936.0	2398.7	2444.8	2376.2
32.5°	1862.3	1839.8	1818.2	1742.5	1682.8	1663.4	1750.1	2028.3	2560.1	2633.8	2545.6
35°	2106.0	2087.9	2064.9	1948.1	1856.4	1811.2	1879.4	2157.1	2749.2	2866.0	2751.2
37.5°	2340.6	2325.1	2336.1	2178.6	2060.4	1994.6	2048.9	2330.0	2982.2	3154.7	3008.9
40°	2583.2	2571.2	2572.8	2422.3	2284.4	2210.7	2254.4	2547.1	3249.5	3498.1	3318.6
42.5°	2846.9	2837.9	2807.8	2674.4	2519.6	2450.9	2491.0	2797.8	3536.2	3889.2	3658.5
45°	3142.2	3136.7	3108.6	2955.7	2778.3	2701.1	2755.2	3074.5	3824.5	4257.1	4000.0
47.5°	3397.4	3401.9	3398.4	3269.5	3085.6	2972.3	3036.9	3363.2	4092.6	4603.0	4327.2
50°	3520.2	3543.7	3578.4	3538.2	3423.9	3308.6	3321.2	3642.0	4348.4	4927.4	4641.1
52.5°	3456.0	3500.6	3594.9	3659.0	3703.1	3679.1	3645.5	3918.7	4588.9	5220.1	4937.8
55°	3216.9	3279.6	3436.0	3590.9	3816.0	3990.9	4035.0	4225.6	4823.5	5477.8	5218.6
57.5°	2781.2	2883.0	3023.3	3336.7	3715.7	4141.8	4489.2	4651.1	5072.2	5753.0	5512.3
60°	2034.3	2170.6	2345.1	2811.4	3364.8	4061.0	4875.7	5304.8	5425.6	6109.4	5894.9
62.5°	1301.9	1386.1	1546.5	1985.6	2621.8	3647.5	4994.0	6121.9	6024.7	6694.0	6468.4
65°	891.3	945.5	1092.3	1339.0	1694.9	2715.1	4677.2	6734.6	6976.2	7620.4	7448.9
67.5°	647.7	688.8	814.2	1030.2	1104.3	1606.7	3629.4	6706.5	7901.1	8574.8	8308.1
70°	472.2	501.3	606.6	814.2	849.7	893.8	2198.7	5700.8	7881.0	8828.5	8509.1
72.5°	349.9	369.9	440.6	631.6	687.8	603.6	1088.3	4143.3	6772.2	7985.4	7729.1
75°	253.2	268.2	320.3	483.3	550.4	459.7	542.9	2421.4	4723.8	5617.1	5662.3
77.5°	193.5	205.0	239.1	353.9	440.6	344.9	336.9	1113.9	2239.8	2250.9	2377.2
80°	155.4	163.0	181.4	249.2	337.8	258.2	219.6	449.7	707.9	599.1	628.6
82.5°	114.3	126.8	153.4	175.0	241.6	177.9	133.9	227.1	269.2	231.6	233.6
85°	65.2	73.7	92.8	125.4	154.4	108.8	76.7	100.8	125.4	102.8	91.7
87.5°	23.1	30.0	32.6	49.1	67.1	45.1	29.6	29.1	41.1	30.5	25.5
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°	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1	1385.1
2.5°	1395.1	1392.7	1382.6	1369.1	1355.0	1341.5	1337.0	1327.5	1320.9	1317.4	1321.4
5°	1423.2	1415.2	1391.6	1361.5	1329.9	1295.9	1271.8	1249.8	1233.7	1218.7	1224.7
7.5°	1463.3	1449.2	1408.7	1356.1	1299.9	1243.2	1201.1	1169.0	1147.5	1133.4	1136.4
10°	1509.9	1488.4	1426.2	1347.5	1260.8	1179.6	1130.0	1102.4	1088.9	1081.3	1083.3
12.5°	1563.5	1533.0	1444.2	1328.0	1201.1	1108.4	1074.3	1066.3	1066.8	1067.3	1068.3
15°	1629.7	1587.1	1458.8	1285.4	1123.4	1053.7	1047.8	1060.8	1074.3	1080.9	1080.4
17.5°	1704.5	1644.3	1461.3	1215.1	1047.2	1018.6	1037.7	1065.8	1086.3	1095.3	1097.4
20°	1784.6	1702.4	1443.3	1115.9	984.6	990.0	1024.2	1060.3	1082.8	1094.4	1097.4
22.5°	1876.4	1764.6	1400.1	1011.7	933.5	959.0	999.1	1034.2	1057.8	1069.3	1072.3
25°	1981.1	1834.2	1332.5	923.9	889.3	923.9	964.0	993.1	1012.2	1022.6	1025.7
27.5°	2097.5	1907.0	1242.2	854.2	850.7	887.9	920.9	943.4	953.5	961.6	964.5
30°	2214.3	1973.1	1132.9	801.6	817.1	852.2	875.8	885.8	888.8	890.3	893.8
32.5°	2340.6	2030.3	1018.1	758.0	785.0	817.6	831.7	836.2	822.2	812.6	815.6
35°	2493.5	2091.4	905.9	723.3	753.5	781.6	786.1	782.1	765.5	746.0	746.9
37.5°	2682.5	2167.7	816.1	698.8	723.9	742.4	736.9	735.9	737.4	714.3	715.9
40°	2914.1	2266.9	750.5	679.8	699.9	703.9	688.3	696.8	704.4	669.2	670.2
42.5°	3171.2	2386.7	708.9	666.8	679.8	670.2	646.2	655.7	654.7	608.5	608.1
45°	3433.4	2517.1	694.3	657.2	661.2	642.2	615.6	618.1	597.1	555.4	557.0
47.5°	3694.1	2656.9	703.4	649.2	638.2	616.6	596.0	585.1	553.9	522.9	522.9
50°	3949.8	2803.8	736.5	633.1	606.6	594.1	579.0	559.4	526.3	499.8	497.8
52.5°	4186.9	2951.7	773.6	606.6	566.9	574.5	565.0	542.4	509.8	482.8	483.3
55°	4411.5	3099.6	788.0	570.0	529.9	557.5	552.0	510.3	471.2	449.2	447.2
57.5°	4656.2	3277.5	772.0	523.4	499.8	537.9	516.8	470.7	448.1	431.6	430.1
60°	4995.0	3556.7	737.4	465.8	471.2	508.8	472.7	453.7	429.2	410.6	409.6
62.5°	5558.0	4077.7	681.7	408.6	437.7	465.8	451.7	432.7	407.5	389.5	389.5
65°	6390.2	4801.5	577.0	364.0	400.1	423.6	429.2	410.1	384.0	365.0	365.9
67.5°	7092.0	5255.7	436.6	326.9	361.4	389.5	405.1	386.5	359.0	340.4	340.9
70°	7053.4	4925.8	333.3	290.3	327.4	355.9	376.0	361.4	331.9	314.4	315.8
72.5°	6264.8	4120.7	269.7	253.2	292.7	320.8	344.9	333.8	303.8	286.8	286.8
75°	4602.5	2925.1	215.6	215.6	249.7	284.2	310.8	303.8	276.2	264.1	260.7
77.5°	1940.0	1227.2	168.9	179.0	207.6	244.2	277.3	279.7	255.6	270.7	245.6
80°	515.9	338.4	128.8	140.8	163.0	201.5	241.1	240.2	214.0	200.0	185.9
82.5°	196.5	133.4	91.7	99.2	117.8	154.4	191.0	197.0	171.0	147.9	147.9
85°	75.7	57.2	56.7	59.7	68.7	102.3	144.4	149.3	128.8	109.3	112.7
87.5°	19.6	17.0	21.0	20.1	31.6	54.6	82.7	85.7	78.7	45.6	65.2
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)