

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: P959880

Luminaire Tested: **NAV-SB1B-750-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-750-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6054.7 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 39.8
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

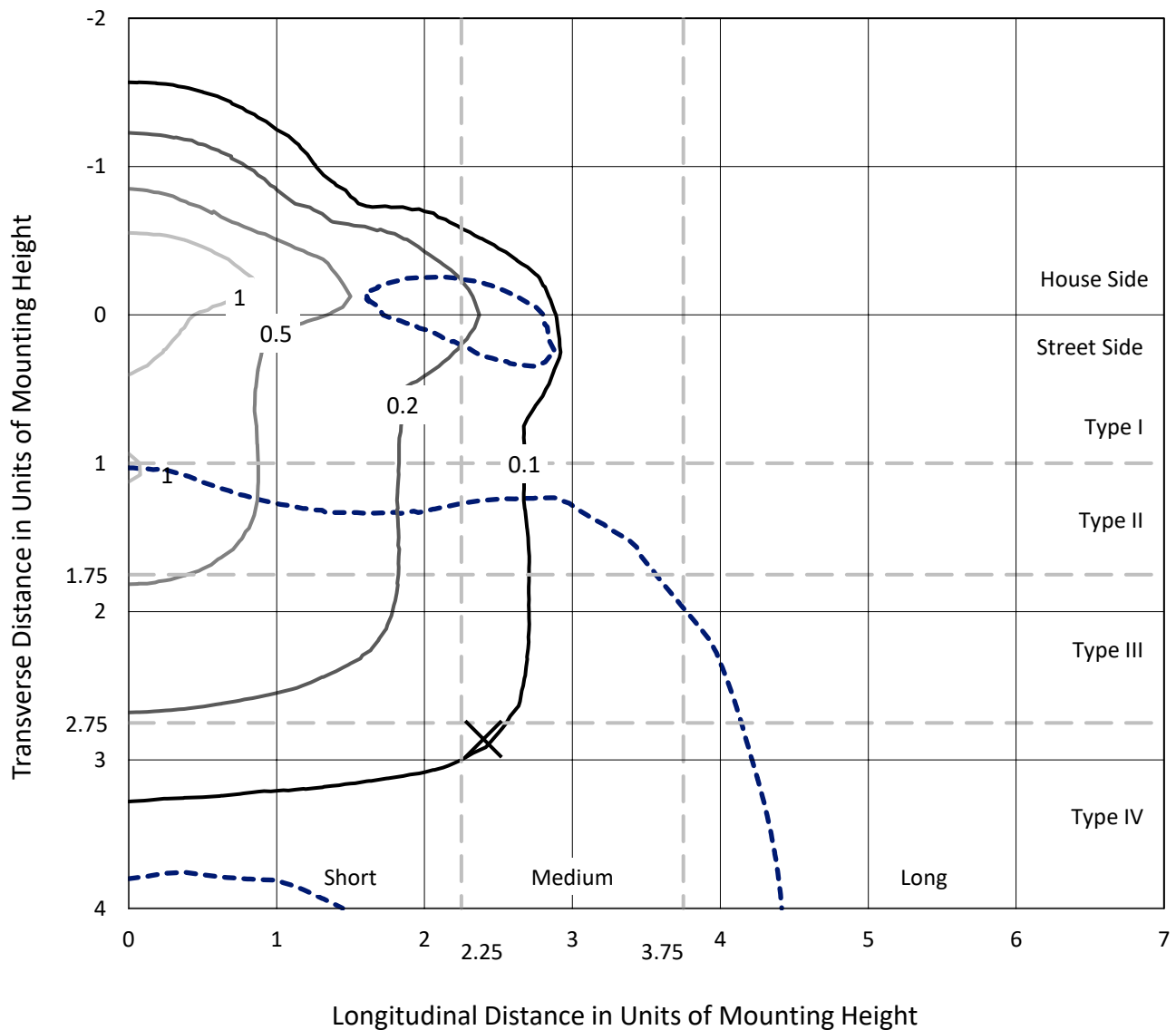


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Iso-Footcandle Lines of Horizontal Illumination

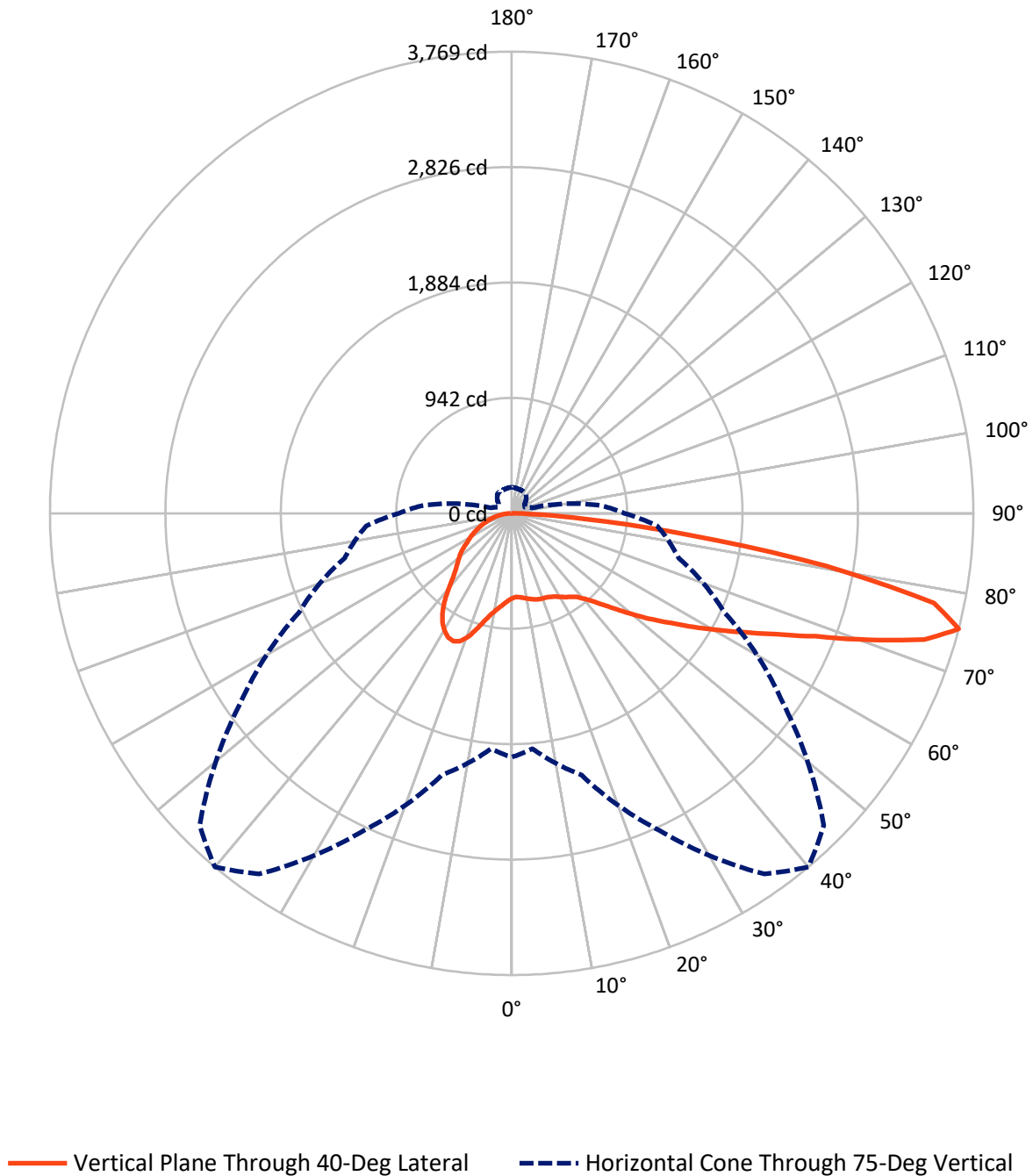
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1875.9	0.0	1875.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	4178.7	0.0	4178.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	6054.7	0.0	6054.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	1.1
10°-20°	232.0	3.8
20°-30°	423.7	7.0
30°-40°	600.9	9.9
40°-50°	811.4	13.4
50°-60°	1091.5	18.0
60°-70°	1385.4	22.9
70°-80°	1257.3	20.8
80°-90°	183.3	3.0
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°	6054.7	100.0
0°-180°	6054.7	100.0

Coefficient of Utilization



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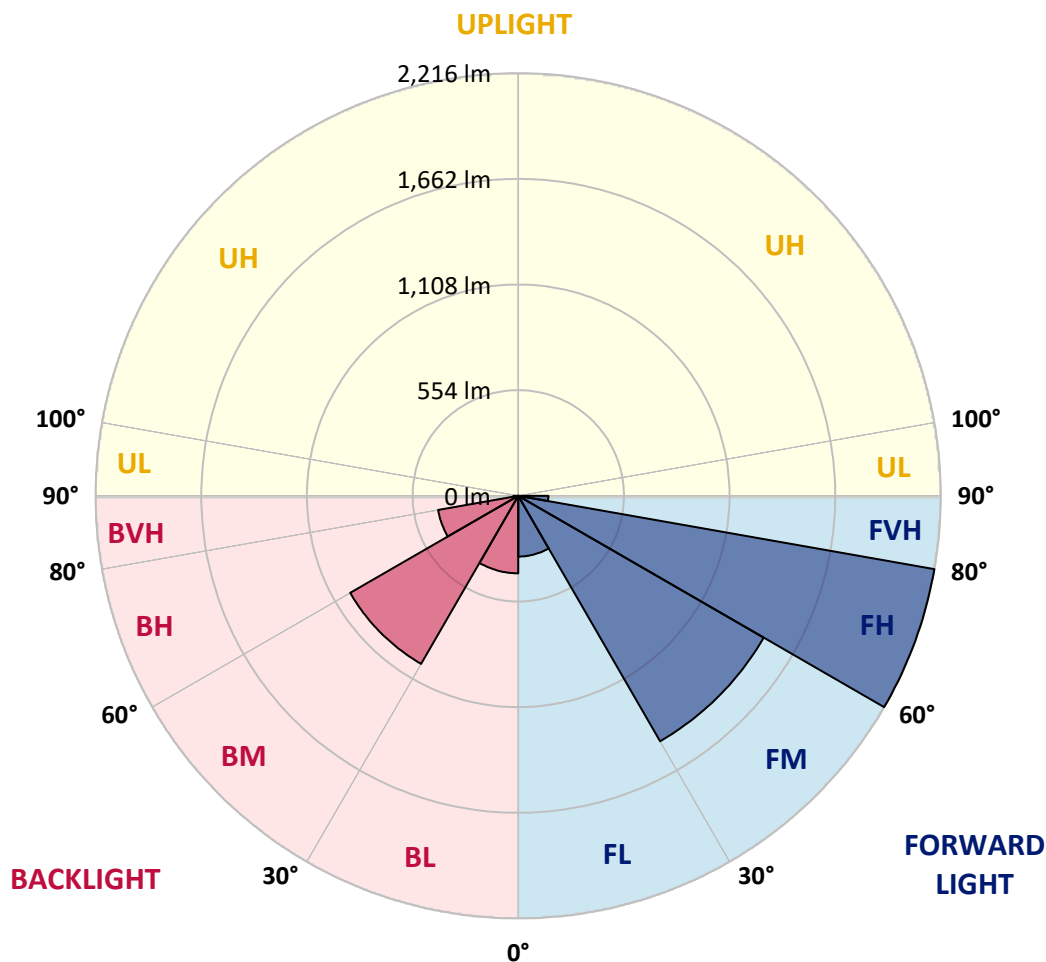
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	318.5	5.3			
FM	(30°-60°)	1486.3	24.5			
FH	(60°-80°)	2215.9	36.6			G2/5000
FVH	(80°-90°)	158.0	2.6			G2/225
BL	(0°-30°)	406.3	6.7	B1/500		
BM	(30°-60°)	1017.5	16.8	B2/2500		
BH	(60°-80°)	426.8	7.0	B1/500		G1/500
BVH	(80°-90°)	25.2	0.4			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4
2.5°	681.7	685.6	684.7	683.4	683.4	683.7	683.4	685.6	687.9	690.1	693.6
5°	688.8	692.7	690.7	689.1	687.9	687.6	686.5	686.2	687.6	690.4	695.3
7.5°	702.6	706.5	703.6	700.7	698.1	696.9	695.6	693.6	692.7	694.3	701.0
10°	718.0	721.9	718.4	713.2	709.1	707.5	706.1	704.3	702.9	704.0	711.3
12.5°	733.5	737.3	732.5	725.4	720.0	719.0	717.4	716.8	716.5	716.2	723.5
15°	747.9	751.1	745.1	736.7	730.9	729.3	727.6	728.7	730.2	732.2	740.6
17.5°	759.1	762.4	753.4	742.4	737.0	736.4	735.4	738.6	743.1	747.9	758.2
20°	769.5	772.6	761.1	746.3	739.8	739.8	740.3	746.9	753.4	760.4	774.6
22.5°	783.9	786.5	772.3	752.0	742.8	743.4	746.0	752.8	760.8	770.4	790.0
25°	805.4	807.3	790.0	763.0	752.5	754.3	756.6	759.8	767.5	778.8	805.0
27.5°	840.1	841.7	818.9	782.3	766.2	769.5	772.6	770.4	774.0	783.6	817.2
30°	888.9	889.9	861.0	812.4	789.7	791.3	791.9	782.6	775.8	783.6	825.9
32.5°	946.7	946.4	912.0	849.1	816.3	814.7	809.2	791.0	775.2	782.0	833.6
35°	1036.3	1032.8	988.4	900.5	846.5	836.5	823.7	800.2	778.4	780.3	840.4
37.5°	1184.7	1173.7	1112.4	984.6	891.4	866.1	847.2	815.4	785.5	779.7	848.4
40°	1352.0	1338.1	1270.7	1099.9	958.9	918.1	887.6	836.9	797.0	782.6	860.3
42.5°	1550.4	1530.8	1458.3	1235.7	1044.3	985.2	939.3	864.2	814.1	791.9	876.4
45°	1794.2	1768.1	1665.4	1388.9	1151.9	1073.2	1011.9	905.6	840.1	809.9	900.5
47.5°	2040.5	2046.9	1900.8	1564.3	1281.0	1181.7	1102.8	967.9	878.0	838.8	939.3
50°	2302.1	2306.7	2134.9	1758.5	1427.4	1304.4	1204.9	1037.6	930.6	879.9	997.4
52.5°	2506.4	2507.0	2347.5	1961.7	1579.9	1439.3	1315.1	1117.2	991.7	934.5	1074.8
55°	2634.2	2632.6	2496.5	2154.1	1755.3	1581.0	1437.0	1207.8	1066.2	998.8	1172.1
57.5°	2727.0	2722.2	2599.2	2319.6	1942.2	1748.2	1575.1	1310.6	1154.1	1075.1	1300.2
60°	2762.4	2759.5	2668.9	2462.5	2138.8	1933.3	1734.4	1425.5	1254.0	1165.4	1465.0
62.5°	2775.9	2781.3	2737.4	2600.8	2349.1	2138.0	1909.5	1562.9	1366.4	1267.5	1638.8
65°	2823.4	2833.3	2824.4	2782.0	2586.7	2378.0	2141.6	1726.4	1489.1	1377.0	1820.2
67.5°	2917.5	2927.4	2931.3	2998.7	2877.0	2677.0	2431.3	1930.0	1632.6	1490.7	1956.6
70°	2915.2	2912.3	2980.4	3171.1	3240.5	3090.9	2821.8	2180.5	1803.8	1585.1	1974.0
72.5°	2653.5	2630.4	2791.3	3169.3	3543.0	3523.1	3298.7	2503.6	1951.5	1596.6	1712.9
75°	1990.7	1929.0	2213.3	2856.2	3593.4	3768.5	3601.8	2704.0	1916.5	1410.7	1192.1
77.5°	851.4	789.4	1124.3	2114.4	3216.1	3522.8	3323.7	2359.0	1529.9	932.9	585.4
80°	222.8	222.5	339.8	958.6	2187.2	2601.4	2282.3	1523.5	874.1	333.3	161.5
82.5°	92.1	89.9	124.9	372.8	1068.8	1459.9	1191.4	679.5	315.7	90.2	53.6
85°	34.3	34.0	60.7	128.7	377.0	602.1	435.7	173.7	78.7	44.0	24.1
87.5°	9.6	9.3	13.1	44.6	91.8	139.4	74.5	28.6	22.1	17.3	7.1
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°	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4
2.5°	694.6	696.2	699.2	701.3	704.3	707.5	712.0	714.8	717.7	719.7	718.4
5°	697.5	701.0	708.4	715.8	724.5	732.5	741.8	748.6	754.0	755.6	756.2
7.5°	704.0	709.7	722.2	734.7	748.6	761.7	775.2	786.8	796.1	799.6	799.9
10°	715.1	722.8	740.6	758.2	776.5	796.7	814.1	830.8	844.0	849.4	849.7
12.5°	729.3	738.9	762.1	786.5	811.8	839.8	862.2	882.8	899.1	906.5	906.5
15°	747.6	760.1	789.7	822.5	859.7	898.5	927.1	949.9	968.2	977.2	976.5
17.5°	767.5	784.2	821.4	870.9	924.2	975.3	1008.7	1025.4	1044.3	1053.0	1052.7
20°	786.8	807.3	860.6	932.5	1003.6	1057.8	1084.8	1089.3	1090.6	1091.5	1094.1
22.5°	806.7	834.4	909.8	1010.2	1086.4	1123.9	1127.8	1108.5	1081.6	1069.1	1072.6
25°	828.5	865.1	974.0	1096.0	1157.6	1162.1	1132.6	1085.8	1034.7	1011.3	1014.7
27.5°	849.7	900.8	1051.0	1177.9	1209.1	1169.5	1106.0	1039.5	977.8	953.1	956.0
30°	870.9	941.6	1136.2	1249.5	1232.5	1151.3	1063.9	989.7	927.7	901.7	904.7
32.5°	892.5	989.1	1234.1	1301.2	1228.4	1112.4	1011.6	933.9	879.2	852.0	855.5
35°	916.9	1047.6	1327.0	1329.5	1200.4	1055.2	942.5	867.0	819.5	797.7	802.5
37.5°	948.6	1121.8	1408.8	1336.6	1151.6	971.4	856.8	788.0	748.9	738.9	746.0
40°	988.1	1211.0	1471.4	1325.3	1079.3	869.6	763.0	708.1	685.9	688.2	695.9
42.5°	1039.5	1310.9	1515.5	1296.4	978.8	764.6	680.8	656.4	667.0	676.0	684.3
45°	1106.3	1414.6	1542.7	1247.3	865.1	675.7	632.3	638.1	646.2	647.1	653.5
47.5°	1191.8	1519.6	1560.7	1173.1	749.2	613.1	601.5	602.8	601.2	594.4	599.5
50°	1298.4	1621.8	1576.8	1074.8	650.6	573.9	558.4	553.9	531.8	509.9	512.8
52.5°	1419.7	1715.4	1583.5	952.8	573.9	541.1	516.1	487.8	446.4	439.6	441.9
55°	1554.6	1802.2	1566.2	802.8	509.3	499.1	461.1	427.1	422.6	416.9	417.8
57.5°	1715.8	1895.6	1530.8	635.5	443.2	449.9	413.0	416.9	408.8	399.9	398.2
60°	1892.2	1992.3	1468.8	483.0	374.7	388.6	400.5	400.2	397.9	390.5	388.0
62.5°	2050.7	2055.8	1346.8	369.9	314.7	341.0	373.5	373.2	371.3	367.1	365.4
65°	2145.1	2046.2	1143.2	291.3	265.3	301.9	336.9	339.5	339.8	339.5	339.5
67.5°	2128.4	1933.6	863.9	231.9	224.5	262.1	300.5	304.1	306.7	307.3	308.0
70°	1939.6	1685.9	563.2	185.0	188.2	227.0	266.2	269.8	272.0	274.6	275.8
72.5°	1511.9	1239.5	322.5	149.6	156.4	196.9	232.2	236.4	237.6	242.4	244.4
75°	921.4	729.0	174.0	117.9	128.4	168.3	198.4	203.3	205.5	211.4	212.0
77.5°	438.0	315.7	99.2	91.8	103.4	137.5	167.6	173.1	167.0	170.1	167.6
80°	148.0	117.3	62.6	70.0	79.0	107.2	134.3	139.7	126.9	126.2	124.9
82.5°	51.7	47.6	39.8	46.5	51.0	76.8	101.5	108.5	94.4	94.1	89.6
85°	20.2	19.3	22.1	25.4	30.5	47.3	66.8	70.3	58.1	46.8	46.2
87.5°	4.2	4.5	5.4	5.7	9.3	16.4	24.1	29.5	23.5	19.9	18.3
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)