

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: P960387

Luminaire Tested: **NAV-SB1C-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960387
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-SB1C-740-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8049.3 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

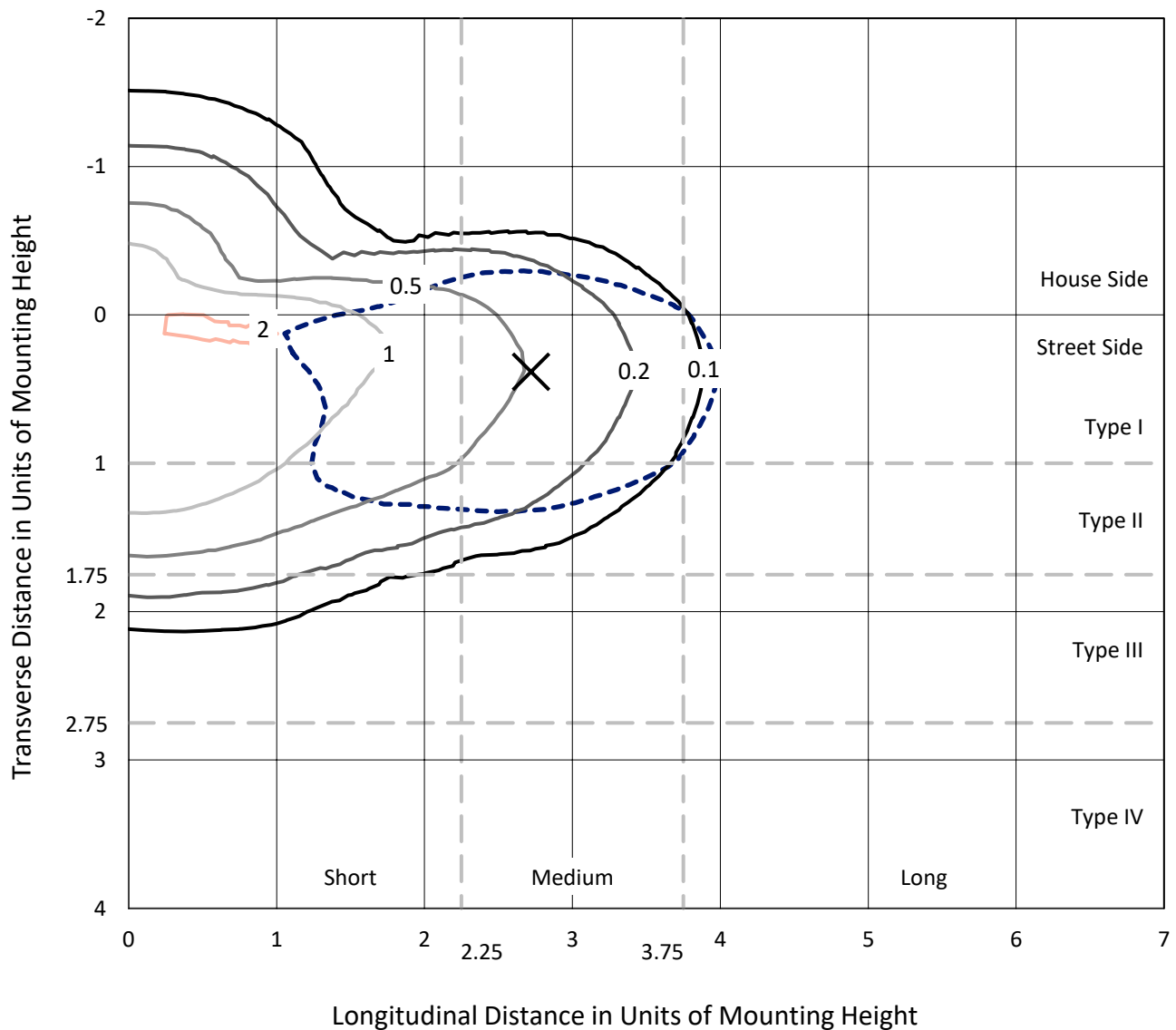
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

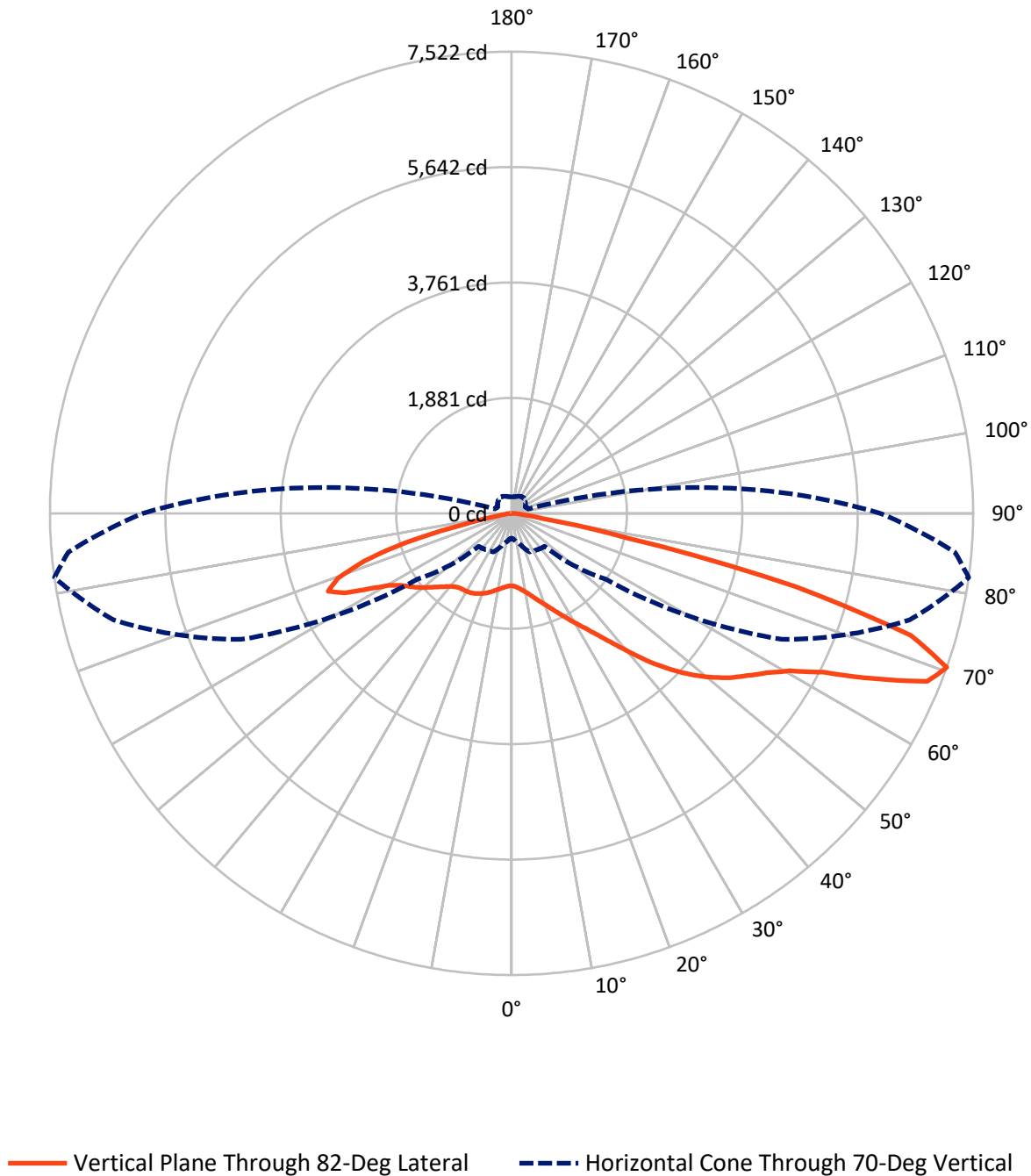
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1984.4	0.0	1984.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	6065.0	0.0	6065.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	8049.3	0.0	8049.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	1.4
10°-20°	320.1	4.0
20°-30°	535.5	6.7
30°-40°	836.7	10.4
40°-50°	1332.5	16.6
50°-60°	1854.3	23.0
60°-70°	1939.7	24.1
70°-80°	1013.8	12.6
80°-90°	105.3	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°	8049.3	100.0
0°-180°	8049.3	100.0

Coefficient of Utilization



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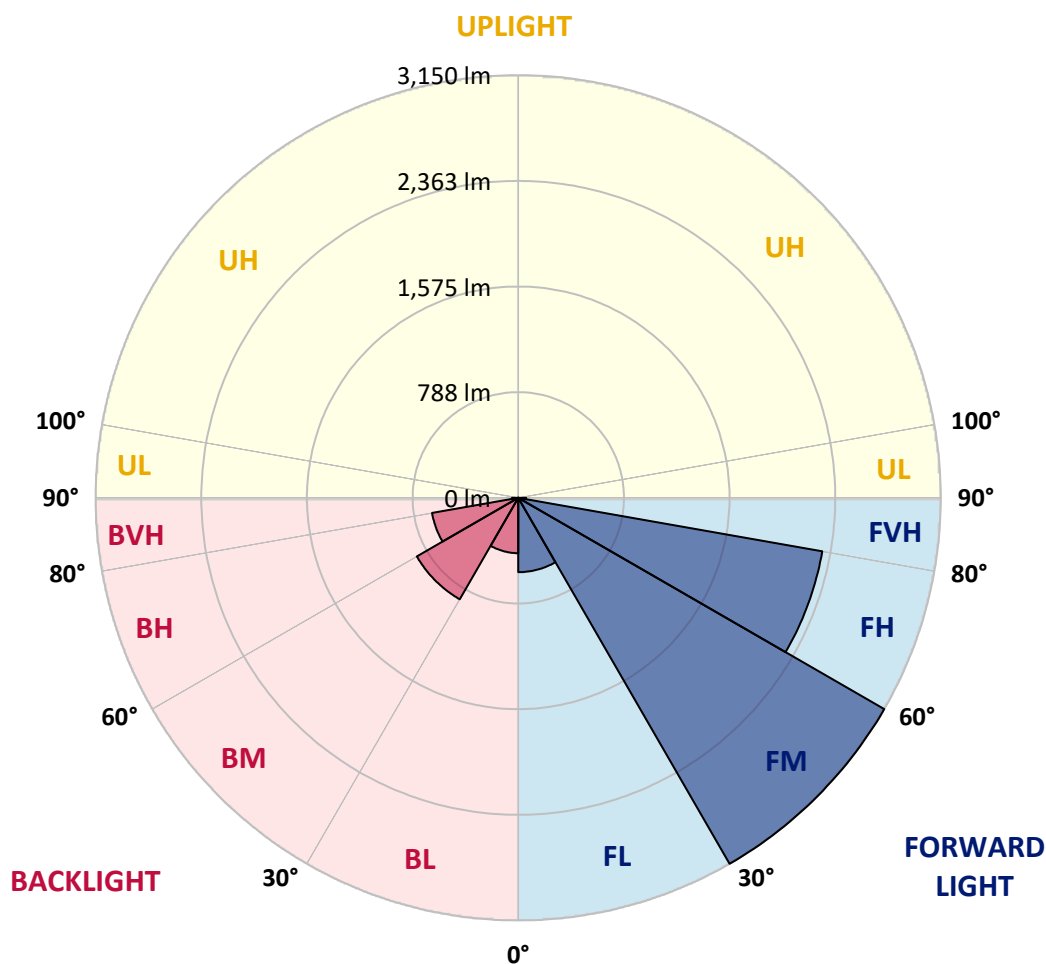
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	554.3	6.9			
FM	(30°-60°)	3150.4	39.1			
FH	(60°-80°)	2301.3	28.6			G2/5000
FVH	(80°-90°)	58.9	0.7			G1/100
BL	(0°-30°)	412.8	5.1	B1/500		
BM	(30°-60°)	873.0	10.8	B1/1000		
BH	(60°-80°)	652.2	8.1	B2/1000		G2/1000
BVH	(80°-90°)	46.3	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°	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1
2.5°	1208.4	1215.1	1213.0	1210.9	1210.9	1207.9	1207.4	1203.1	1199.8	1194.2	1192.9
5°	1223.7	1230.9	1230.1	1231.8	1237.4	1238.6	1239.9	1237.4	1230.5	1223.7	1220.7
7.5°	1210.0	1218.1	1220.7	1230.9	1248.0	1263.4	1275.0	1279.6	1273.3	1263.4	1258.7
10°	1163.9	1172.9	1181.8	1206.2	1236.6	1272.8	1303.6	1321.9	1320.6	1311.3	1303.2
12.5°	1070.4	1079.7	1099.0	1146.4	1201.9	1266.0	1323.2	1361.6	1374.9	1368.1	1353.9
15°	995.6	1003.8	1018.2	1066.9	1139.1	1236.6	1330.4	1405.3	1439.0	1435.1	1418.1
17.5°	993.4	996.9	1005.8	1028.9	1084.4	1190.3	1322.8	1447.9	1512.4	1512.0	1490.7
20°	1031.0	1032.4	1037.5	1042.2	1073.8	1155.4	1303.2	1483.4	1594.9	1594.9	1571.8
22.5°	1083.2	1082.3	1087.4	1083.2	1098.6	1152.4	1290.8	1514.5	1686.7	1693.5	1664.5
25°	1161.3	1157.0	1155.8	1145.9	1148.9	1180.1	1304.4	1550.0	1795.6	1809.7	1773.4
27.5°	1265.6	1258.7	1254.0	1231.4	1223.7	1237.4	1346.2	1592.7	1917.0	1941.2	1895.1
30°	1401.4	1389.0	1382.1	1342.9	1315.1	1317.2	1409.5	1649.5	2043.7	2083.1	2024.6
32.5°	1586.7	1567.5	1549.2	1484.7	1433.9	1417.2	1491.1	1728.2	2181.3	2244.1	2168.9
35°	1794.4	1779.0	1759.3	1659.8	1581.6	1543.1	1601.3	1837.9	2342.3	2441.9	2344.1
37.5°	1994.2	1981.0	1990.3	1856.3	1755.4	1699.6	1745.7	1985.2	2541.0	2687.9	2563.5
40°	2201.0	2190.7	2192.0	2063.8	1946.4	1883.6	1920.7	2170.2	2768.6	2980.4	2827.6
42.5°	2425.7	2418.0	2392.2	2278.7	2146.7	2088.2	2122.4	2383.7	3012.9	3313.6	3117.1
45°	2677.2	2672.5	2648.6	2518.3	2367.1	2301.3	2347.5	2619.5	3258.5	3627.1	3408.0
47.5°	2894.6	2898.4	2895.4	2785.6	2628.9	2532.4	2587.5	2865.6	3487.0	3921.9	3686.9
50°	2999.3	3019.3	3048.8	3014.6	2917.3	2819.0	2829.7	3103.0	3704.9	4198.2	3954.2
52.5°	2944.5	2982.5	3062.9	3117.5	3155.2	3134.7	3106.1	3338.8	3909.9	4447.6	4207.1
55°	2740.8	2794.3	2927.5	3059.4	3251.2	3400.3	3437.8	3600.2	4109.7	4667.1	4446.3
57.5°	2369.7	2456.4	2575.9	2842.9	3165.8	3528.9	3824.9	3962.9	4321.6	4901.7	4696.7
60°	1733.3	1849.4	1998.0	2395.3	2866.8	3460.1	4154.1	4519.7	4622.8	5205.3	5022.5
62.5°	1109.3	1181.0	1317.6	1691.9	2233.9	3107.7	4255.0	5216.0	5133.1	5703.3	5511.1
65°	759.4	805.5	930.7	1140.8	1444.1	2313.3	3985.0	5738.0	5943.8	6492.7	6346.6
67.5°	551.9	586.8	693.6	877.7	941.0	1368.9	3092.3	5714.0	6731.8	7305.9	7078.6
70°	402.3	427.1	516.8	693.6	724.0	761.6	1873.4	4857.2	6714.8	7522.0	7249.9
72.5°	298.2	315.2	375.5	538.1	586.0	514.2	927.3	3530.1	5769.9	6803.5	6585.3
75°	215.7	228.5	273.0	411.7	468.9	391.7	462.6	2063.0	4024.8	4785.8	4824.4
77.5°	164.8	174.7	203.8	301.6	375.5	293.9	287.0	949.0	1908.3	1917.8	2025.4
80°	132.4	138.8	154.6	212.3	287.9	220.0	187.1	383.1	603.1	510.4	535.6
82.5°	97.4	108.0	130.7	149.0	205.9	151.6	114.1	193.5	229.4	197.3	199.1
85°	55.6	62.8	79.0	106.8	131.5	92.7	65.4	85.9	106.8	87.5	78.2
87.5°	19.7	25.6	27.8	41.8	57.2	38.4	25.2	24.8	35.1	26.0	21.8
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°	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1
2.5°	1188.7	1186.5	1178.0	1166.4	1154.5	1143.0	1139.1	1131.0	1125.4	1122.5	1125.9
5°	1212.6	1205.8	1185.7	1160.1	1133.1	1104.1	1083.6	1064.8	1051.1	1038.3	1043.4
7.5°	1246.8	1234.8	1200.2	1155.4	1107.5	1059.2	1023.4	996.0	977.6	965.8	968.3
10°	1286.5	1268.1	1215.1	1148.1	1074.2	1005.0	962.7	939.2	927.7	921.3	923.0
12.5°	1332.2	1306.2	1230.5	1131.4	1023.4	944.3	915.3	908.5	908.9	909.4	910.2
15°	1388.6	1352.3	1242.9	1095.1	957.1	897.8	892.7	903.7	915.3	920.9	920.4
17.5°	1452.2	1401.0	1245.1	1035.4	892.3	867.9	884.2	908.0	925.6	933.3	935.0
20°	1520.6	1450.5	1229.7	950.8	838.9	843.6	872.6	903.3	922.6	932.4	935.0
22.5°	1598.7	1503.5	1192.9	861.9	795.3	817.1	851.3	881.2	901.2	911.0	913.6
25°	1688.0	1562.8	1135.3	787.2	757.7	787.2	821.3	846.1	862.3	871.4	873.9
27.5°	1787.1	1624.7	1058.4	727.9	724.8	756.4	784.6	803.8	812.4	819.2	821.7
30°	1886.6	1681.1	965.2	683.0	696.2	726.1	746.2	754.7	757.3	758.6	761.6
32.5°	1994.2	1729.8	867.5	645.9	668.9	696.6	708.6	712.5	700.5	692.4	694.9
35°	2124.5	1782.0	771.8	616.3	642.0	665.8	669.7	666.4	652.2	635.6	636.4
37.5°	2285.5	1846.8	695.4	595.4	616.7	632.5	627.9	627.0	628.3	608.6	610.0
40°	2482.9	1931.4	639.4	579.1	596.2	599.6	586.4	593.7	600.1	570.2	571.0
42.5°	2702.0	2033.5	603.9	568.1	579.1	571.0	550.5	558.6	557.8	518.5	518.1
45°	2925.4	2144.6	591.5	560.0	563.3	547.1	524.5	526.6	508.7	473.2	474.6
47.5°	3147.5	2263.7	599.2	553.1	543.8	525.3	507.9	498.5	472.0	445.5	445.5
50°	3365.3	2388.9	627.4	539.5	516.8	506.1	493.3	476.6	448.4	425.9	424.1
52.5°	3567.3	2514.8	659.1	516.8	483.1	489.4	481.3	462.2	434.4	411.3	411.7
55°	3758.7	2640.9	671.5	485.6	451.5	475.0	470.3	434.8	401.5	382.7	381.0
57.5°	3967.1	2792.5	657.7	445.9	425.9	458.3	440.3	401.1	381.8	367.8	366.4
60°	4255.8	3030.4	628.3	396.8	401.5	433.6	402.8	386.5	365.6	349.8	348.9
62.5°	4735.5	3474.2	580.9	348.1	372.9	396.8	384.8	368.6	347.3	331.9	331.9
65°	5444.5	4091.0	491.6	310.1	340.8	360.9	365.6	349.4	327.2	311.0	311.8
67.5°	6042.5	4477.9	372.0	278.5	307.9	331.9	345.1	329.3	305.9	290.0	290.5
70°	6009.6	4196.9	284.0	247.3	278.9	303.3	320.3	307.9	282.8	267.8	269.1
72.5°	5337.7	3510.9	229.8	215.7	249.5	273.4	293.9	284.4	258.8	244.4	244.4
75°	3921.3	2492.3	183.7	183.7	212.7	242.2	264.9	258.8	235.3	225.1	222.1
77.5°	1652.9	1045.6	143.9	152.5	176.8	208.0	236.2	238.3	217.8	230.6	209.3
80°	439.5	288.3	109.8	120.0	138.8	171.7	205.4	204.6	182.3	170.5	158.5
82.5°	167.4	113.6	78.2	84.6	100.3	131.5	162.8	167.9	145.7	126.0	126.0
85°	64.5	48.7	48.3	50.8	58.5	87.1	123.0	127.3	109.8	93.1	96.1
87.5°	16.7	14.6	17.9	17.1	27.0	46.5	70.5	73.1	67.0	38.8	55.6
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)