

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: P960531

Luminaire Tested: **NAV-SB1C-835-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960531
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-SB1C-835-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7060.2 lumens
Efficiency: N/A
Efficacy: 129.8 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): 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



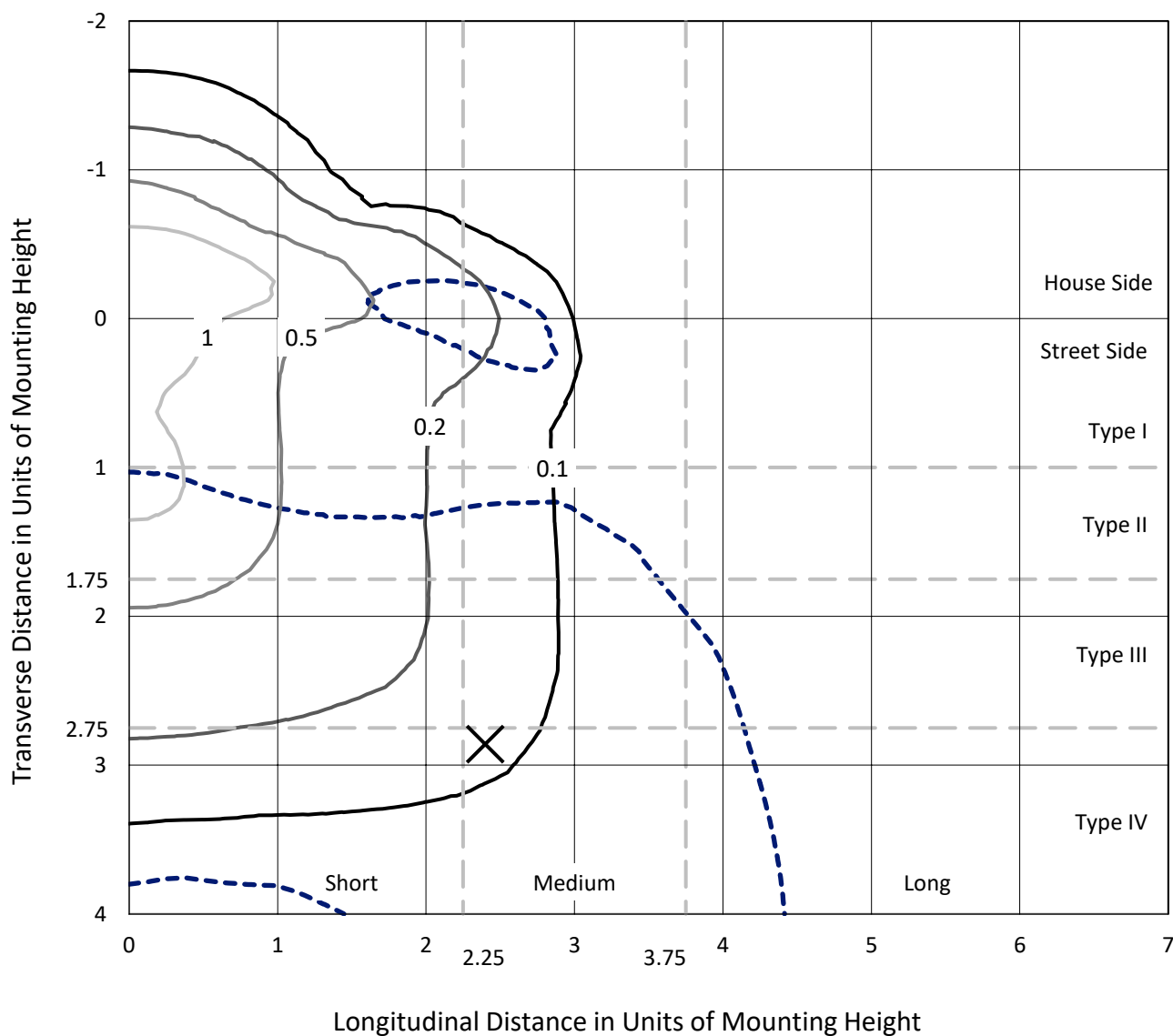
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

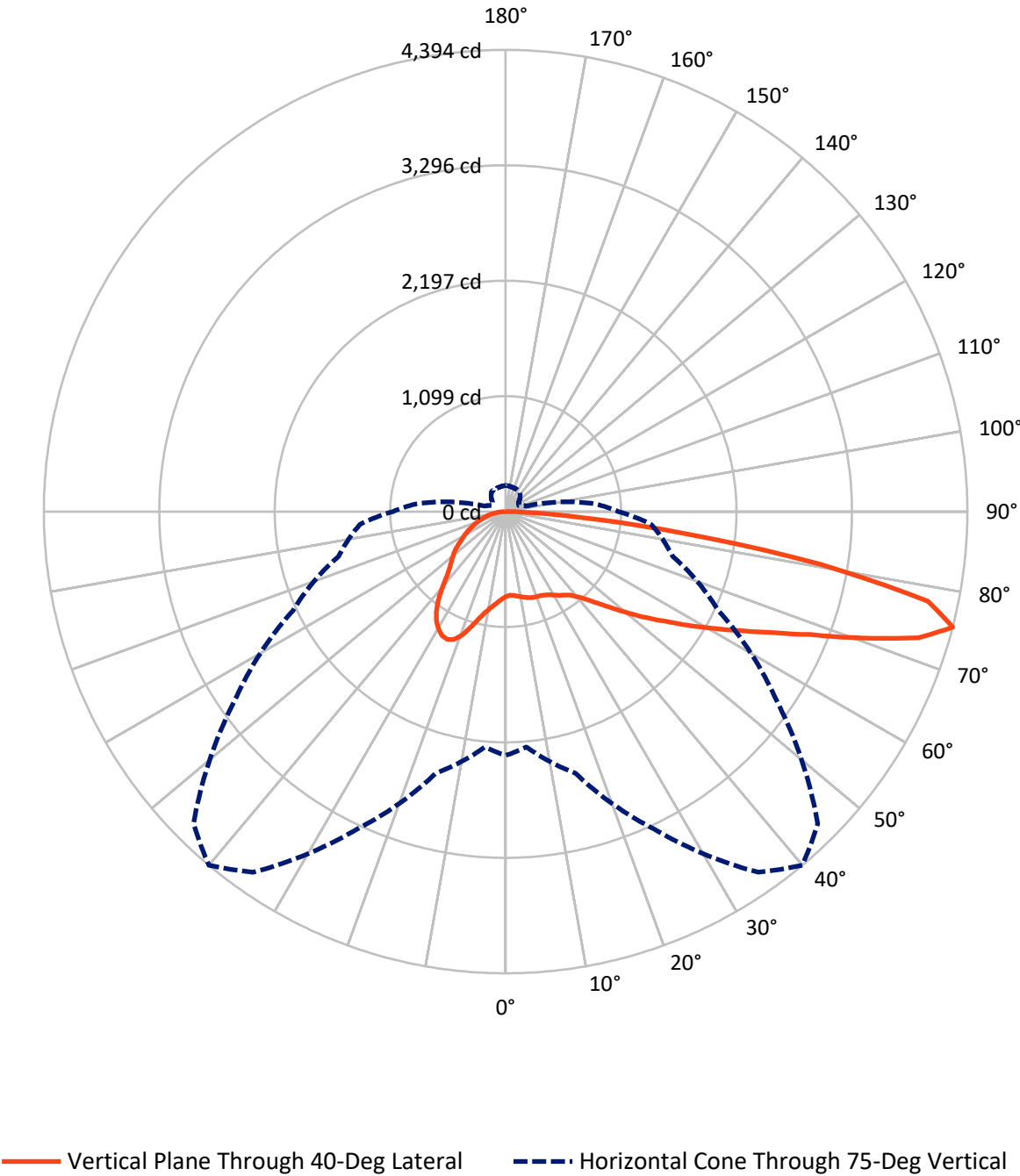
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	2187.5	0.0	2187.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	4872.7	0.0	4872.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	7060.2	0.0	7060.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	1.1
10°-20°	270.6	3.8
20°-30°	494.0	7.0
30°-40°	700.7	9.9
40°-50°	946.1	13.4
50°-60°	1272.8	18.0
60°-70°	1615.5	22.9
70°-80°	1466.1	20.8
80°-90°	213.7	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°	7060.2	100.0
0°-180°	7060.2	100.0

Coefficient of Utilization



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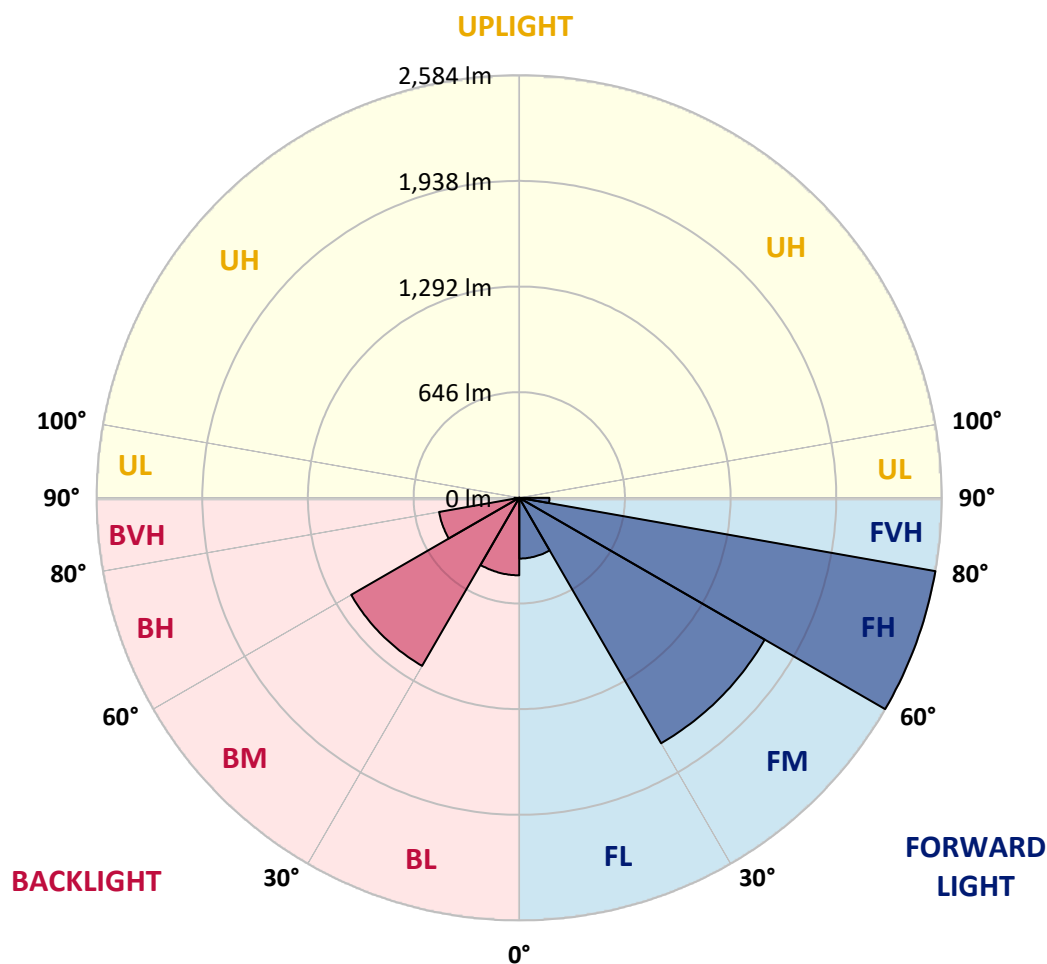
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	371.4	5.3			
FM	(30°-60°)	1733.1	24.5			
FH	(60°-80°)	2583.9	36.6			G2/5000
FVH	(80°-90°)	184.3	2.6			G2/225
BL	(0°-30°)	473.8	6.7	B1/500		
BM	(30°-60°)	1186.5	16.8	B2/2500		
BH	(60°-80°)	497.7	7.0	B1/500		G1/500
BVH	(80°-90°)	29.4	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°	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4
2.5°	795.0	799.5	798.4	796.8	796.8	797.2	796.8	799.5	802.1	804.7	808.8
5°	803.2	807.7	805.4	803.6	802.1	801.8	800.6	800.2	801.8	805.1	810.7
7.5°	819.3	823.8	820.4	817.1	814.1	812.6	811.1	808.8	807.7	809.5	817.4
10°	837.3	841.8	837.6	831.7	826.8	824.9	823.5	821.2	819.7	820.8	829.4
12.5°	855.3	859.8	854.1	845.9	839.6	838.4	836.5	835.8	835.5	835.1	843.7
15°	872.2	875.9	868.8	859.1	852.3	850.4	848.5	849.6	851.6	853.8	863.6
17.5°	885.2	889.0	878.5	865.7	859.4	858.6	857.5	861.3	866.5	872.2	884.1
20°	897.2	901.0	887.4	870.2	862.7	862.7	863.2	871.0	878.5	886.7	903.2
22.5°	914.1	917.1	900.6	877.0	866.1	866.8	869.9	877.7	887.1	898.3	921.2
25°	939.1	941.4	921.2	889.7	877.4	879.7	882.2	886.0	894.9	908.0	938.8
27.5°	979.6	981.4	954.9	912.1	893.5	897.2	901.0	898.3	902.4	913.7	953.0
30°	1036.5	1037.6	1004.0	947.4	920.8	922.7	923.4	912.6	904.7	913.7	963.1
32.5°	1103.9	1103.5	1063.4	990.0	951.9	950.0	943.6	922.3	903.9	911.8	972.1
35°	1208.4	1204.3	1152.6	1050.0	987.1	975.5	960.5	933.2	907.7	910.0	980.0
37.5°	1381.4	1368.7	1297.1	1148.1	1039.6	1009.9	987.8	950.8	915.9	909.2	989.3
40°	1576.4	1560.4	1481.7	1282.6	1118.2	1070.6	1035.0	975.9	929.4	912.6	1003.2
42.5°	1807.9	1785.0	1700.5	1440.9	1217.8	1148.8	1095.3	1007.7	949.3	923.4	1021.9
45°	2092.1	2061.8	1942.0	1619.6	1343.2	1251.4	1180.0	1056.0	979.6	944.4	1050.0
47.5°	2379.3	2386.8	2216.5	1824.0	1493.7	1378.0	1285.9	1128.6	1023.8	978.1	1095.3
50°	2684.6	2689.8	2489.4	2050.5	1664.5	1521.1	1405.0	1209.9	1085.2	1026.0	1163.1
52.5°	2922.7	2923.4	2737.4	2287.6	1842.3	1678.3	1533.4	1302.8	1156.3	1089.7	1253.4
55°	3071.7	3069.9	2911.1	2511.9	2046.8	1843.5	1675.8	1408.4	1243.2	1164.6	1366.8
57.5°	3180.0	3174.3	3030.9	2704.8	2264.7	2038.6	1836.7	1528.2	1345.8	1253.7	1516.2
60°	3221.2	3217.8	3112.2	2871.4	2493.9	2254.3	2022.4	1662.2	1462.3	1358.9	1708.3
62.5°	3236.8	3243.2	3192.0	3032.8	2739.2	2493.2	2226.6	1822.6	1593.4	1478.0	1910.9
65°	3292.3	3303.9	3293.4	3244.0	3016.3	2772.9	2497.3	2013.1	1736.4	1605.7	2122.5
67.5°	3402.0	3413.7	3418.1	3496.8	3354.8	3121.5	2835.0	2250.5	1903.7	1738.3	2281.6
70°	3399.4	3396.0	3475.4	3697.8	3778.7	3604.2	3290.5	2542.6	2103.4	1848.4	2301.8
72.5°	3094.2	3067.2	3254.9	3695.5	4131.5	4108.2	3846.5	2919.3	2275.6	1861.8	1997.4
75°	2321.3	2249.4	2580.8	3330.4	4190.2	4394.4	4199.9	3153.0	2234.8	1645.0	1390.0
77.5°	992.7	920.4	1311.0	2465.4	3750.3	4107.9	3875.7	2750.8	1783.9	1087.8	682.6
80°	259.8	259.5	396.2	1117.8	2550.5	3033.5	2661.3	1776.4	1019.3	388.7	188.4
82.5°	107.4	104.9	145.7	434.7	1246.2	1702.3	1389.3	792.3	368.1	105.3	62.5
85°	40.1	39.7	70.7	150.2	439.6	702.1	508.2	202.5	91.7	51.4	28.1
87.5°	11.3	10.9	15.4	52.1	107.1	162.6	86.9	33.3	25.8	20.2	8.2
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°	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4	807.4
2.5°	810.0	811.8	815.2	817.8	821.2	824.9	830.1	833.5	836.9	839.2	837.6
5°	813.3	817.4	826.0	834.7	844.8	854.1	865.0	872.9	879.2	881.1	881.9
7.5°	820.8	827.6	842.1	856.8	872.9	888.3	903.9	917.5	928.3	932.4	932.7
10°	833.9	843.0	863.6	884.1	905.5	929.1	949.3	968.7	984.1	990.5	990.9
12.5°	850.4	861.6	888.6	917.1	946.7	979.2	1005.4	1029.4	1048.5	1057.1	1057.1
15°	871.8	886.3	920.8	959.0	1002.4	1047.8	1081.1	1107.6	1129.0	1139.5	1138.8
17.5°	894.9	914.4	957.9	1015.6	1077.7	1137.2	1176.2	1195.7	1217.8	1227.8	1227.5
20°	917.5	941.4	1003.6	1087.4	1170.2	1233.5	1265.0	1270.2	1271.7	1272.8	1275.8
22.5°	940.6	972.8	1060.9	1178.0	1266.8	1310.7	1315.1	1292.6	1261.2	1246.6	1250.7
25°	966.2	1008.8	1135.7	1278.1	1349.9	1355.2	1320.7	1266.1	1206.5	1179.2	1183.3
27.5°	990.9	1050.4	1225.6	1373.5	1409.9	1363.8	1289.7	1212.2	1140.2	1111.4	1114.8
30°	1015.6	1097.9	1324.8	1457.0	1437.2	1342.4	1240.6	1154.0	1081.8	1051.4	1054.8
32.5°	1040.7	1153.3	1439.1	1517.3	1432.3	1297.1	1179.6	1089.0	1025.3	993.4	997.5
35°	1069.1	1221.5	1547.2	1550.3	1399.7	1230.5	1099.0	1011.1	955.6	930.2	935.8
37.5°	1106.2	1308.0	1642.8	1558.5	1342.9	1132.7	999.1	918.9	873.3	861.6	869.9
40°	1152.2	1412.1	1715.7	1545.4	1258.6	1014.0	889.7	825.7	799.8	802.5	811.5
42.5°	1212.2	1528.6	1767.1	1511.7	1141.3	891.6	793.9	765.4	777.8	788.2	798.0
45°	1290.1	1649.5	1798.9	1454.4	1008.8	787.9	737.3	744.0	753.4	754.5	762.0
47.5°	1389.6	1771.9	1819.9	1368.0	873.6	714.8	701.4	702.8	701.0	693.1	699.2
50°	1513.9	1891.0	1838.6	1253.4	758.7	669.1	651.2	646.0	620.1	594.6	598.0
52.5°	1655.5	2000.4	1846.4	1111.0	669.1	631.0	601.8	568.8	520.5	512.6	515.3
55°	1812.8	2101.5	1826.2	936.1	593.9	581.9	537.7	498.0	492.8	486.1	487.2
57.5°	2000.8	2210.4	1785.0	741.1	516.8	524.6	481.5	486.1	476.7	466.2	464.3
60°	2206.3	2323.2	1712.8	563.2	437.0	453.0	467.0	466.6	463.9	455.3	452.3
62.5°	2391.3	2397.3	1570.5	431.4	367.0	397.7	435.5	435.1	432.9	428.0	426.1
65°	2501.4	2386.1	1333.1	339.7	309.3	352.0	392.8	395.9	396.2	395.9	395.9
67.5°	2481.9	2254.7	1007.3	270.4	261.8	305.6	350.4	354.6	357.6	358.3	359.2
70°	2261.8	1966.0	656.8	215.7	219.5	264.8	310.5	314.6	317.1	320.2	321.6
72.5°	1763.0	1445.5	376.0	174.5	182.3	229.5	270.7	275.6	277.1	282.7	285.0
75°	1074.3	850.0	203.0	137.5	149.8	196.2	231.4	237.1	239.6	246.4	247.1
77.5°	510.8	368.1	115.7	107.1	120.5	160.3	195.5	201.8	194.7	198.4	195.5
80°	172.6	136.6	73.0	81.6	92.1	125.0	156.5	162.9	147.9	147.2	145.7
82.5°	60.3	55.5	46.4	54.3	59.6	89.5	118.3	126.6	110.1	109.7	104.4
85°	23.6	22.4	25.8	29.6	35.6	55.0	77.9	82.0	67.8	54.6	53.9
87.5°	4.8	5.2	6.4	6.8	10.9	19.1	28.1	34.4	27.4	23.3	21.3
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)