

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: P960294

Luminaire Tested: **NAV-SB1C-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960294
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-727-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7057.1 lumens
Efficiency: N/A
Efficacy: 129.7 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

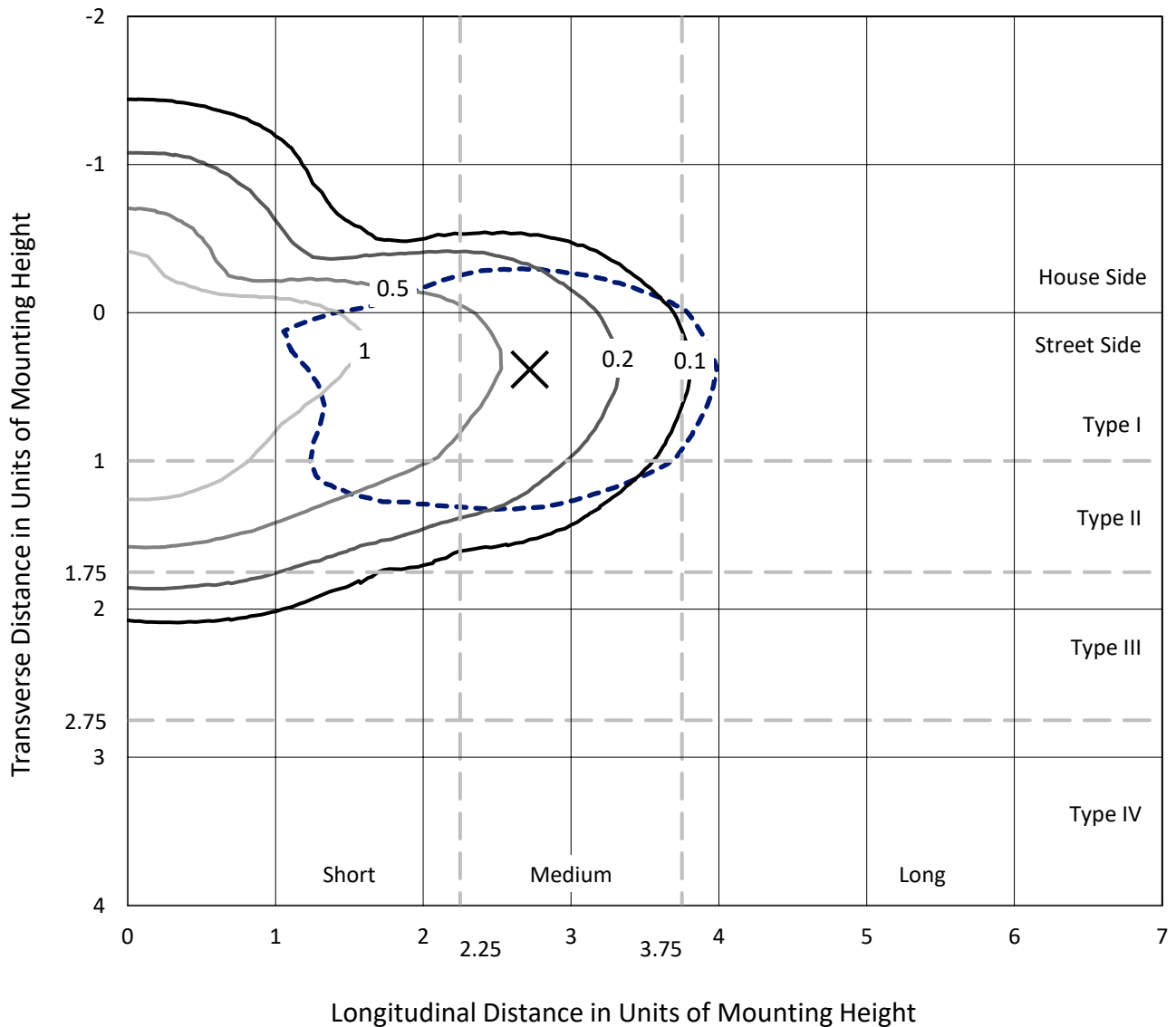
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

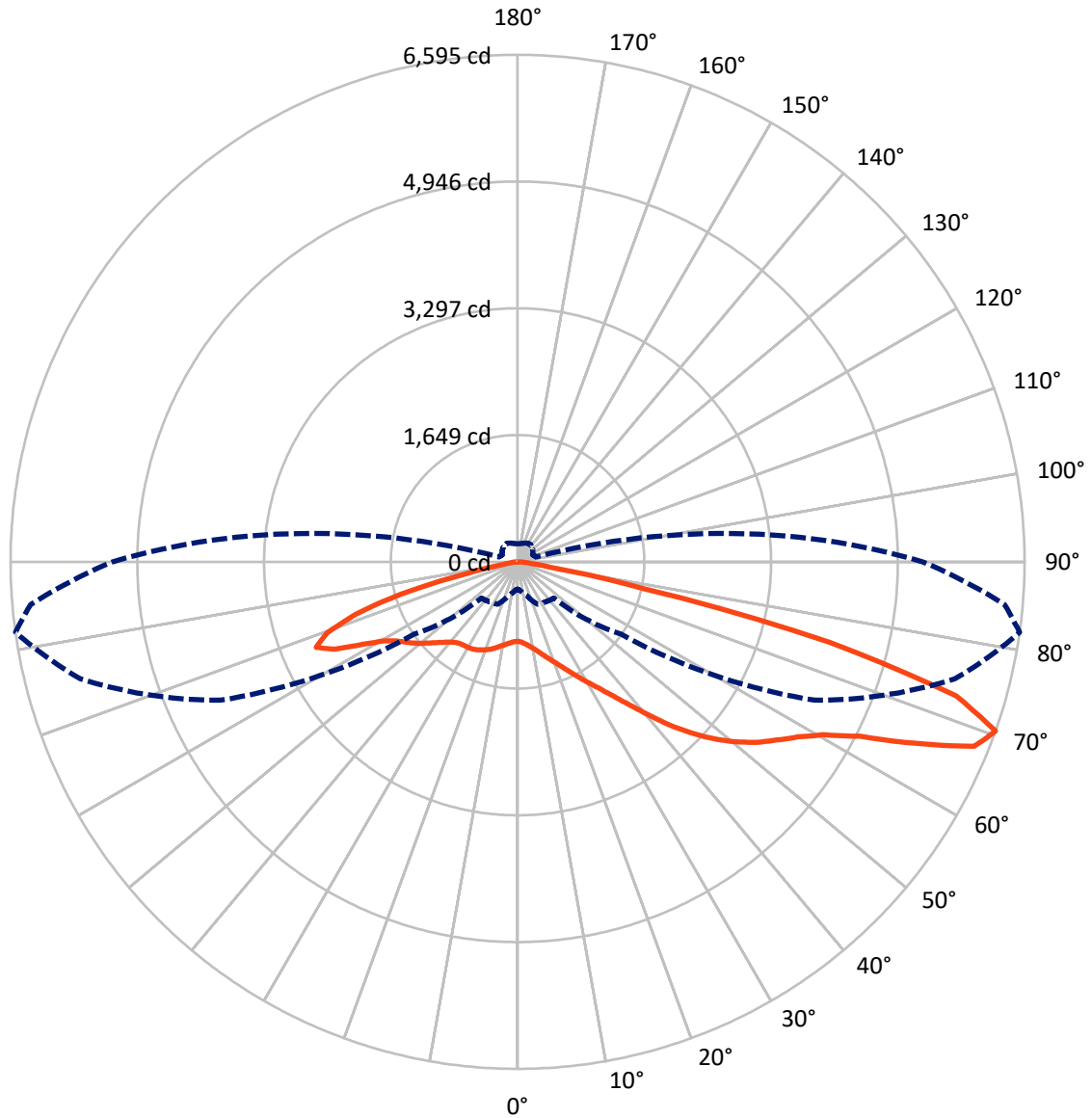
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	1739.8	0.0	1739.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	5317.4	0.0	5317.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	7057.1	0.0	7057.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	1.4
10°-20°	280.7	4.0
20°-30°	469.5	6.7
30°-40°	733.5	10.4
40°-50°	1168.2	16.6
50°-60°	1625.7	23.0
60°-70°	1700.6	24.1
70°-80°	888.8	12.6
80°-90°	92.3	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°	7057.1	100.0
0°-180°	7057.1	100.0

Coefficient of Utilization

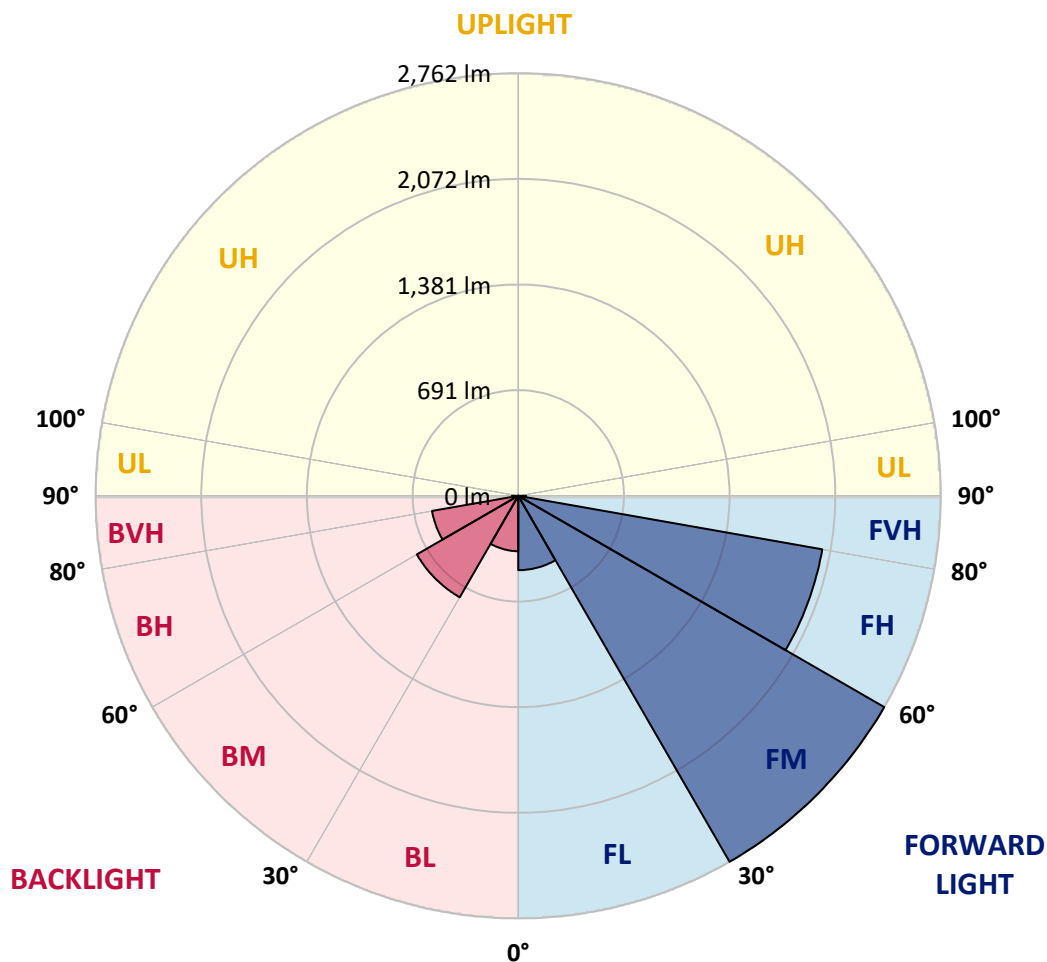


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	486.0	6.9			
FM (30°-60°)	2762.1	39.1			
FH (60°-80°)	2017.7	28.6			G2/5000
FVH (80°-90°)	51.7	0.7			G1/100
BL (0°-30°)	361.9	5.1	B1/500		
BM (30°-60°)	765.4	10.8	B1/1000		
BH (60°-80°)	571.8	8.1	B2/1000		G2/1000
BVH (80°-90°)	40.6	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°	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6
2.5°	1059.3	1065.4	1063.5	1061.6	1061.6	1059.0	1058.6	1054.9	1051.9	1047.0	1045.9
5°	1072.9	1079.2	1078.5	1079.9	1084.9	1086.0	1087.1	1084.9	1078.8	1072.9	1070.2
7.5°	1060.9	1067.9	1070.2	1079.2	1094.2	1107.7	1117.8	1122.0	1116.3	1107.7	1103.5
10°	1020.4	1028.3	1036.2	1057.5	1084.1	1115.9	1142.9	1159.0	1157.8	1149.6	1142.5
12.5°	938.4	946.7	963.5	1005.1	1053.8	1110.0	1160.1	1193.8	1205.4	1199.5	1187.1
15°	872.9	880.0	892.8	935.4	998.8	1084.1	1166.4	1232.0	1261.6	1258.2	1243.2
17.5°	871.0	874.0	881.9	902.1	950.8	1043.7	1159.7	1269.5	1326.0	1325.6	1306.9
20°	903.9	905.1	909.6	913.7	941.5	1012.9	1142.5	1300.5	1398.3	1398.3	1378.0
22.5°	949.7	948.9	953.4	949.7	963.1	1010.3	1131.6	1327.9	1478.8	1484.8	1459.3
25°	1018.2	1014.4	1013.3	1004.7	1007.4	1034.6	1143.6	1358.9	1574.3	1586.6	1554.8
27.5°	1109.6	1103.5	1099.4	1079.6	1072.9	1084.9	1180.3	1396.4	1680.6	1702.0	1661.5
30°	1228.7	1217.8	1211.8	1177.3	1153.0	1154.9	1235.7	1446.2	1791.8	1826.3	1775.0
32.5°	1391.1	1374.3	1358.2	1301.6	1257.1	1242.5	1307.3	1515.2	1912.4	1967.5	1901.6
35°	1573.2	1559.6	1542.4	1455.2	1386.6	1353.0	1403.8	1611.3	2053.6	2140.8	2055.1
37.5°	1748.4	1736.8	1745.1	1627.5	1539.0	1490.0	1530.4	1740.6	2227.7	2356.6	2247.6
40°	1929.7	1920.6	1921.8	1809.4	1706.4	1651.4	1684.0	1902.7	2427.3	2613.0	2479.0
42.5°	2126.7	2119.9	2097.5	1997.8	1882.1	1830.8	1860.8	2089.9	2641.5	2905.2	2732.9
45°	2347.1	2343.0	2322.1	2207.8	2075.3	2017.6	2058.1	2296.6	2856.9	3180.0	2987.9
47.5°	2537.8	2541.2	2538.5	2442.3	2304.9	2220.3	2268.5	2512.3	3057.2	3438.4	3232.4
50°	2629.5	2647.2	2673.0	2643.1	2557.7	2471.5	2480.9	2720.6	3248.1	3680.7	3466.9
52.5°	2581.6	2615.0	2685.3	2733.3	2766.2	2748.2	2723.1	2927.2	3427.9	3899.4	3688.6
55°	2403.0	2449.8	2566.6	2682.3	2850.4	2981.2	3014.1	3156.4	3603.2	4091.8	3898.3
57.5°	2077.6	2153.6	2258.4	2492.5	2775.6	3093.9	3353.4	3474.3	3788.9	4297.4	4117.6
60°	1519.6	1621.4	1751.7	2100.0	2513.4	3033.6	3642.1	3962.6	4052.8	4563.7	4403.4
62.5°	972.5	1035.5	1155.3	1483.3	1958.5	2724.7	3730.5	4573.0	4500.4	5000.3	4831.7
65°	665.8	706.2	816.0	1000.2	1266.1	2028.2	3493.8	5030.6	5211.1	5692.3	5564.2
67.5°	483.8	514.6	608.1	769.6	824.9	1200.2	2711.1	5009.7	5902.1	6405.3	6206.1
70°	352.7	374.4	453.2	608.1	634.7	667.7	1642.5	4258.5	5887.1	6594.8	6356.2
72.5°	261.4	276.3	329.1	471.8	513.7	450.9	812.9	3095.0	5058.7	5965.0	5773.6
75°	189.1	200.4	239.3	361.0	411.1	343.4	405.6	1808.7	3528.7	4195.9	4229.7
77.5°	144.5	153.1	178.7	264.3	329.1	257.7	251.6	832.1	1673.1	1681.4	1775.7
80°	116.1	121.7	135.6	186.1	252.4	192.8	164.0	335.9	528.8	447.5	469.6
82.5°	85.4	94.7	114.6	130.7	180.5	132.9	99.9	169.6	201.1	173.0	174.5
85°	48.7	55.0	69.3	93.6	115.3	81.3	57.3	75.2	93.6	76.8	68.6
87.5°	17.2	22.4	24.3	36.7	50.2	33.7	22.1	21.7	30.7	22.9	19.1
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°	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6
2.5°	1042.1	1040.3	1032.8	1022.6	1012.2	1002.0	998.8	991.6	986.8	984.1	987.1
5°	1063.1	1057.1	1039.6	1017.1	993.4	968.0	950.1	933.6	921.6	910.3	914.8
7.5°	1093.1	1082.6	1052.3	1012.9	971.0	928.6	897.2	873.3	857.2	846.6	848.9
10°	1127.9	1111.8	1065.4	1006.6	941.8	881.1	844.1	823.5	813.3	807.7	809.2
12.5°	1168.0	1145.1	1078.8	992.0	897.2	828.0	802.5	796.5	796.8	797.2	798.0
15°	1217.4	1185.6	1089.7	960.1	839.2	787.1	782.7	792.4	802.5	807.4	807.0
17.5°	1273.2	1228.3	1091.6	907.7	782.3	761.0	775.1	796.1	811.5	818.3	819.7
20°	1333.1	1271.7	1078.1	833.5	735.4	739.5	765.1	792.0	808.8	817.4	819.7
22.5°	1401.7	1318.1	1045.9	755.7	697.3	716.4	746.3	772.5	790.2	798.8	801.0
25°	1479.9	1370.2	995.4	690.1	664.3	690.1	720.1	741.8	756.0	763.9	766.2
27.5°	1566.8	1424.4	927.9	638.1	635.5	663.2	687.9	704.8	712.3	718.2	720.5
30°	1654.0	1473.9	846.3	598.8	610.4	636.6	654.2	661.7	663.9	665.0	667.7
32.5°	1748.4	1516.6	760.6	566.2	586.4	610.8	621.3	624.6	614.2	607.0	609.3
35°	1862.6	1562.3	676.7	540.4	562.8	583.8	587.1	584.1	571.8	557.2	558.0
37.5°	2003.8	1619.2	609.7	522.0	540.7	554.6	550.4	549.7	550.8	533.6	534.7
40°	2176.8	1693.4	560.6	507.8	522.8	525.7	514.1	520.5	526.1	499.9	500.7
42.5°	2368.9	1782.9	529.5	498.0	507.8	500.7	482.7	489.8	489.0	454.6	454.3
45°	2564.8	1880.3	518.6	491.0	493.9	479.7	459.8	461.8	446.0	414.9	416.0
47.5°	2759.5	1984.7	525.4	484.9	476.7	460.6	445.3	437.0	413.8	390.5	390.5
50°	2950.5	2094.4	550.1	472.9	453.2	443.7	432.6	417.9	393.2	373.3	371.9
52.5°	3127.6	2204.9	577.8	453.2	423.5	429.2	422.0	405.2	380.8	360.6	361.0
55°	3295.4	2315.4	588.7	425.8	395.9	416.5	412.3	381.2	352.0	335.5	334.0
57.5°	3478.1	2448.3	576.7	390.9	373.3	401.8	386.1	351.7	334.8	322.5	321.3
60°	3731.2	2656.9	550.8	347.9	352.0	380.1	353.1	338.9	320.5	306.7	306.0
62.5°	4151.8	3046.0	509.3	305.1	326.9	347.9	337.4	323.2	304.4	291.0	291.0
65°	4773.4	3586.7	431.0	271.8	298.8	316.4	320.5	306.3	286.8	272.6	273.4
67.5°	5297.6	3926.0	326.2	244.2	270.0	291.0	302.6	288.7	268.1	254.3	254.6
70°	5268.8	3679.5	249.0	216.8	244.6	265.9	280.8	270.0	247.9	234.8	236.0
72.5°	4679.7	3078.2	201.5	189.1	218.7	239.6	257.7	249.4	226.9	214.2	214.2
75°	3438.1	2185.0	161.0	161.0	186.4	212.3	232.2	226.9	206.3	197.3	194.7
77.5°	1449.2	916.7	126.2	133.7	155.0	182.3	207.0	209.0	191.0	202.2	183.5
80°	385.3	252.8	96.2	105.3	121.7	150.6	180.1	179.4	159.9	149.4	138.9
82.5°	146.8	99.6	68.6	74.1	88.0	115.3	142.7	147.2	127.7	110.5	110.5
85°	56.6	42.6	42.3	44.6	51.4	76.4	107.8	111.6	96.2	81.6	84.3
87.5°	14.6	12.7	15.7	15.0	23.6	40.8	61.8	64.1	58.8	34.0	48.7
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)