

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: P961385

Luminaire Tested: **NAV-SB2A-730-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-730-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9087.6 lumens
Efficiency: N/A
Efficacy: 158.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

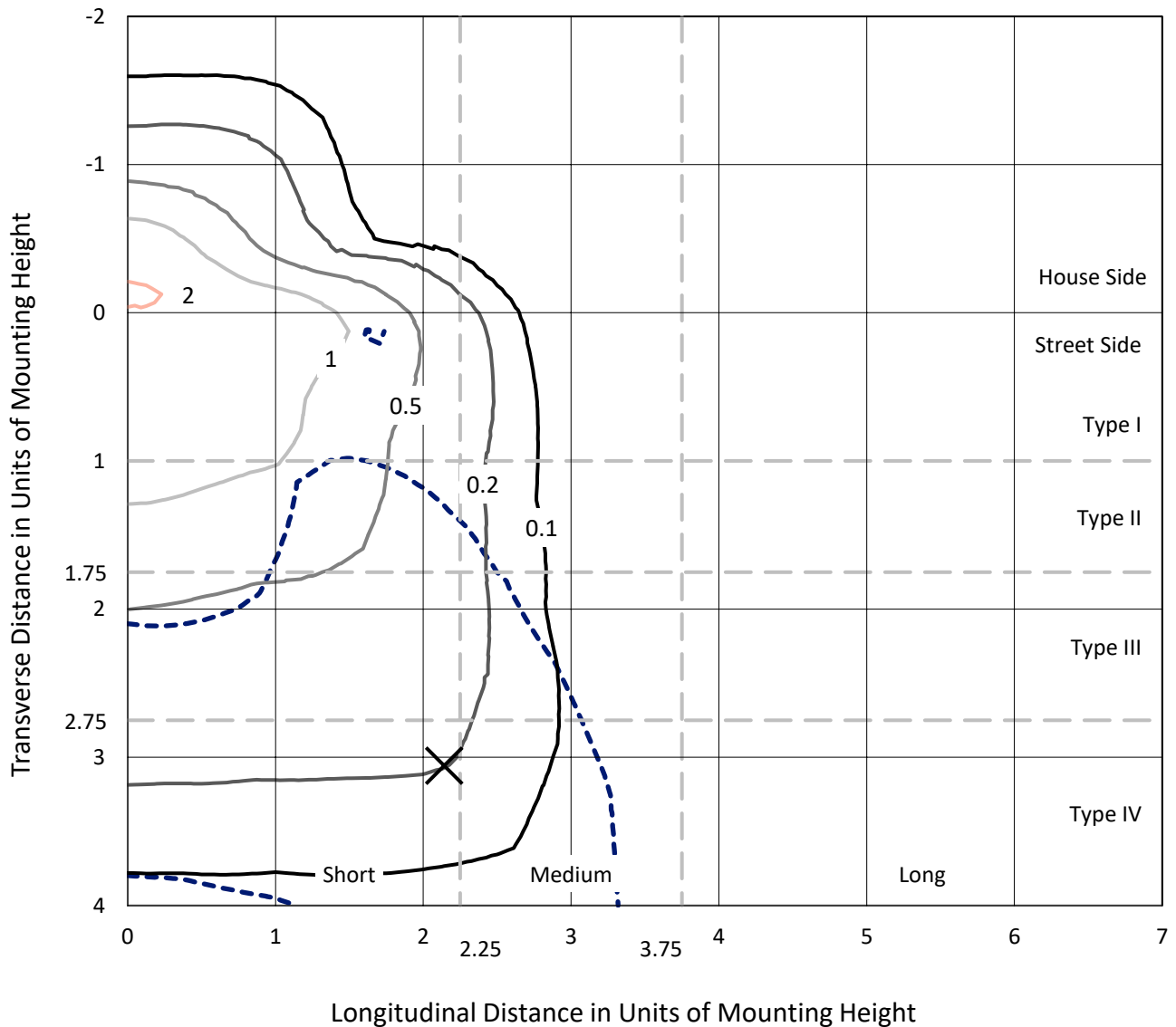
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

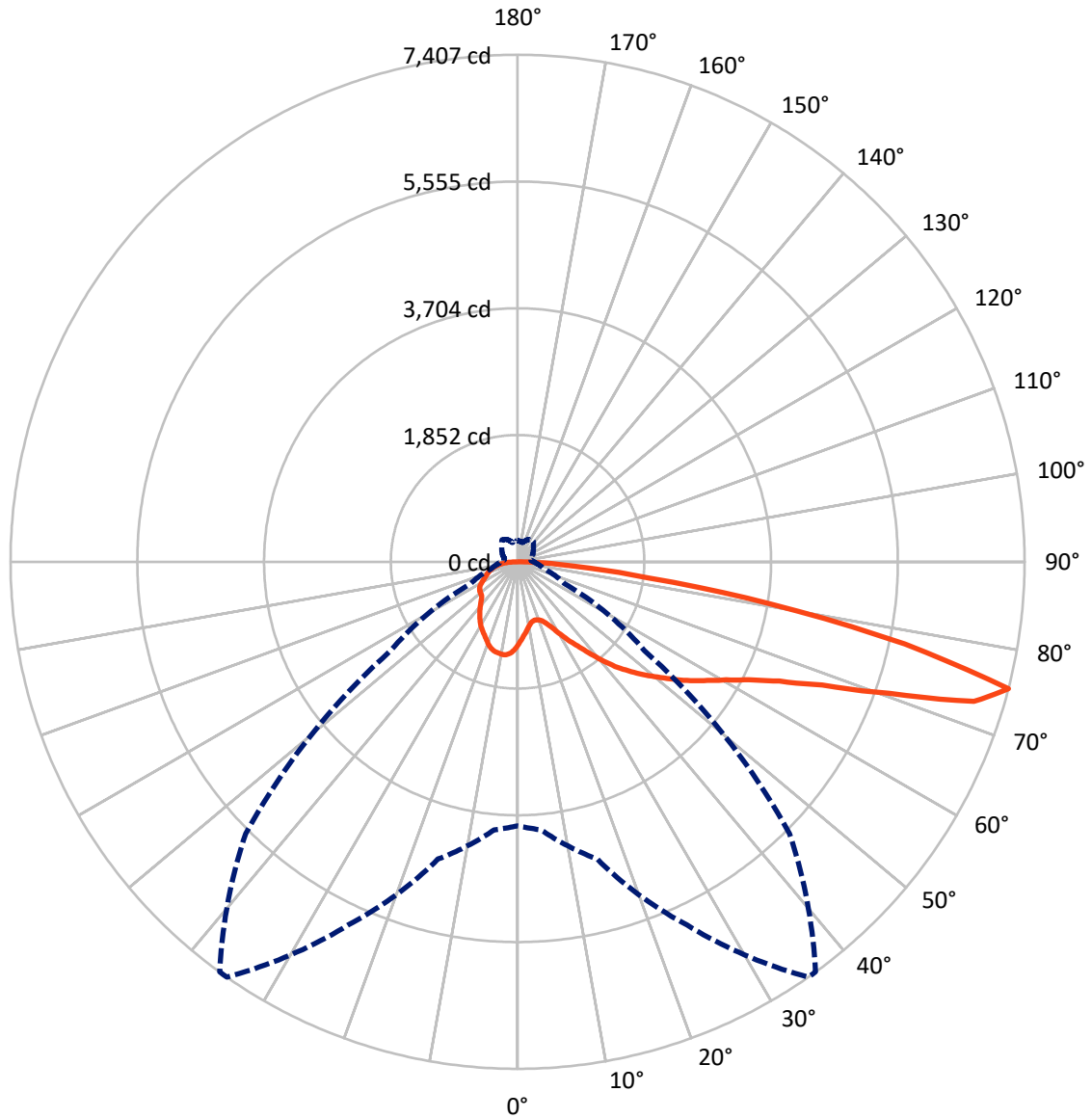
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2162.6	0.0	2162.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	6925.0	0.0	6925.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	9087.6	0.0	9087.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	1.3
10°-20°	330.7	3.6
20°-30°	555.4	6.1
30°-40°	863.1	9.5
40°-50°	1281.1	14.1
50°-60°	1768.6	19.5
60°-70°	2145.7	23.6
70°-80°	1773.3	19.5
80°-90°	255.1	2.8
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°	9087.6	100.0
0°-180°	9087.6	100.0

Coefficient of Utilization



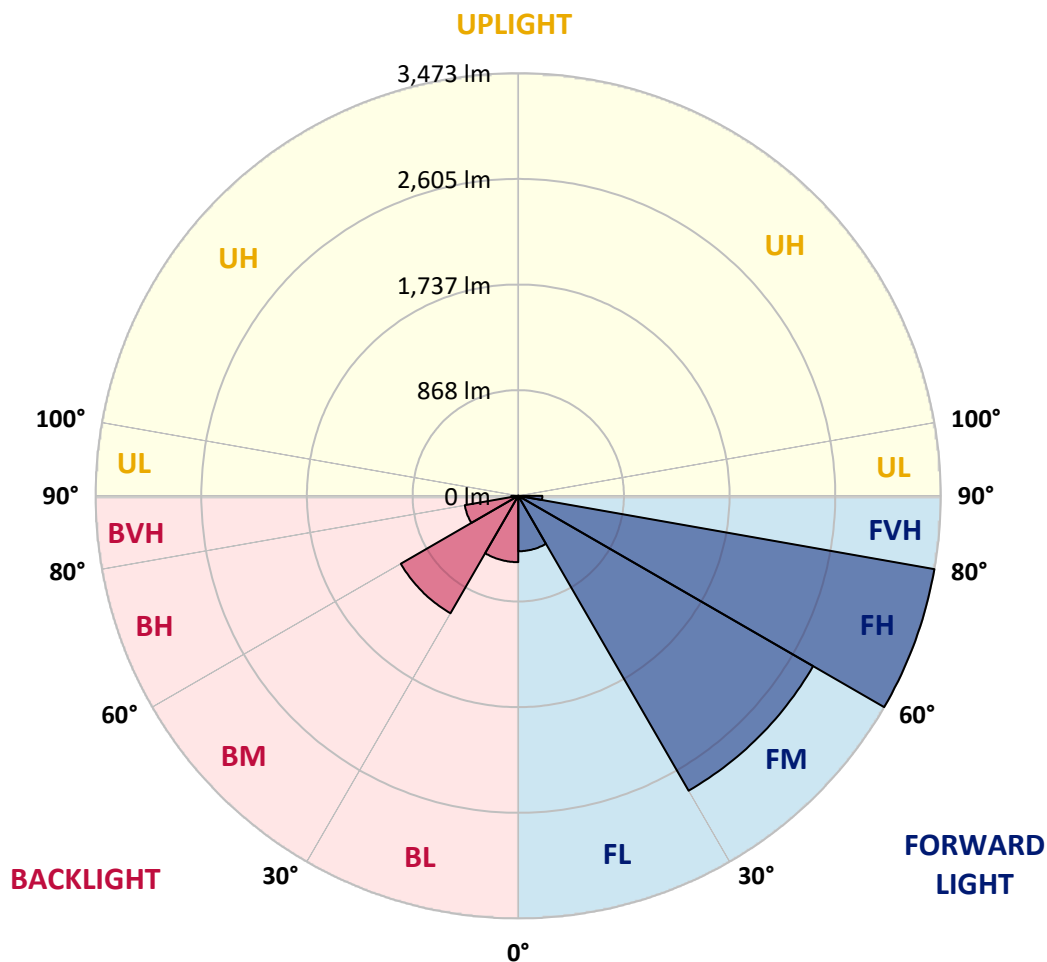
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	455.7	5.0			
FM (30°-60°)	2798.5	30.8			
FH (60°-80°)	3473.2	38.2			G2/5000
FVH (80°-90°)	197.6	2.2			G2/225
BL (0°-30°)	545.0	6.0	B2/1000		
BM (30°-60°)	1114.3	12.3	B2/2500		
BH (60°-80°)	445.9	4.9	B1/500		G1/500
BVH (80°-90°)	57.4	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0
2.5°	1116.6	1123.5	1126.5	1125.0	1132.4	1131.4	1141.7	1154.5	1172.2	1189.4	1214.4
5°	1030.7	1038.0	1044.5	1050.3	1064.6	1069.0	1085.3	1109.8	1142.3	1175.2	1216.4
7.5°	950.6	957.0	966.8	977.6	1001.7	1006.1	1033.2	1071.4	1116.6	1164.8	1221.8
10°	885.3	891.6	902.0	914.3	944.2	949.7	984.0	1035.1	1094.1	1155.0	1227.7
12.5°	857.3	859.3	865.1	877.4	903.4	906.9	944.7	1003.2	1071.9	1147.6	1236.6
15°	855.8	859.8	860.2	866.6	888.3	889.7	924.6	982.6	1058.2	1146.2	1249.8
17.5°	870.5	873.5	869.1	873.0	891.1	893.6	921.2	972.7	1053.8	1152.5	1272.4
20°	909.8	912.2	899.0	893.6	906.9	908.9	935.9	979.1	1058.2	1165.8	1303.4
22.5°	993.3	994.9	962.4	940.3	941.3	942.3	965.9	1005.1	1075.4	1189.8	1342.6
25°	1123.5	1122.6	1071.0	1028.3	1003.7	998.2	1014.0	1047.4	1104.3	1221.8	1393.3
27.5°	1275.8	1268.4	1216.9	1153.0	1099.5	1091.6	1088.1	1102.4	1145.6	1264.0	1455.2
30°	1447.8	1440.9	1385.4	1301.9	1227.7	1214.9	1182.5	1175.2	1207.0	1321.5	1541.1
32.5°	1636.4	1632.0	1565.7	1464.5	1365.3	1350.5	1296.0	1276.3	1301.3	1408.5	1661.0
35°	1794.7	1790.7	1735.6	1631.5	1510.1	1492.0	1436.4	1414.4	1427.1	1520.0	1817.7
37.5°	1937.6	1935.6	1888.5	1806.5	1681.1	1659.1	1596.6	1589.3	1586.8	1666.9	2007.9
40°	2070.2	2065.3	2016.2	1972.9	1880.2	1860.0	1804.9	1798.6	1779.9	1847.7	2223.0
42.5°	2217.1	2204.4	2133.1	2112.9	2087.9	2071.2	2038.3	2039.2	1998.0	2051.5	2451.0
45°	2337.0	2329.6	2256.4	2244.6	2271.6	2264.7	2293.2	2300.6	2220.6	2265.2	2687.8
47.5°	2465.7	2458.9	2397.0	2388.6	2461.7	2463.7	2564.4	2566.9	2437.7	2487.4	2925.0
50°	2624.4	2614.6	2553.2	2563.4	2645.5	2652.9	2837.1	2820.4	2637.6	2712.8	3160.4
52.5°	2729.1	2734.9	2721.7	2738.4	2850.4	2857.3	3105.3	3062.6	2835.7	2935.4	3391.3
55°	2806.1	2817.9	2859.2	2897.6	3066.5	3073.4	3358.3	3293.0	2999.8	3141.7	3608.4
57.5°	2905.4	2888.7	2965.8	3040.5	3271.9	3290.0	3604.5	3515.0	3145.1	3319.6	3757.2
60°	3047.8	3036.0	3096.0	3206.5	3501.8	3530.8	3864.9	3715.0	3251.7	3460.5	3786.2
62.5°	3336.8	3307.3	3316.6	3414.4	3791.7	3830.0	4158.6	3889.5	3304.8	3515.5	3631.0
65°	3768.5	3718.0	3670.8	3738.6	4199.9	4237.8	4490.2	4026.5	3285.1	3408.9	3218.8
67.5°	4312.4	4262.3	4204.3	4268.2	4801.2	4831.2	4899.5	4103.6	3130.4	2998.2	2490.2
70°	4760.9	4742.3	4811.6	5074.4	5761.6	5762.7	5424.2	4039.7	2706.4	2125.7	1440.9
72.5°	4701.5	4690.2	5055.2	5867.8	6972.2	6946.1	5920.8	3556.3	1823.2	959.0	539.9
75°	3857.0	3930.2	4495.6	5853.6	7407.0	7403.5	5616.7	2260.8	754.1	397.4	279.0
77.5°	2068.2	2184.2	2918.7	4321.7	5782.3	5869.3	3948.8	791.0	323.8	254.5	193.1
80°	674.6	775.7	1163.4	2200.4	3757.2	3741.0	1692.5	310.5	221.6	180.3	133.7
82.5°	286.4	298.2	519.8	1039.0	1928.2	1898.3	538.9	178.4	155.7	123.3	82.5
85°	112.0	125.3	229.4	480.4	835.2	817.0	194.5	88.5	99.7	80.6	49.1
87.5°	36.8	44.7	82.0	164.6	259.8	250.5	47.7	30.4	43.3	36.8	17.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P961385
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0
2.5°	1221.3	1229.2	1238.5	1252.2	1264.0	1273.9	1284.2	1290.6	1293.0	1300.4	1299.9
5°	1230.1	1247.3	1270.4	1293.0	1315.2	1328.4	1340.2	1346.1	1351.5	1355.5	1356.4
7.5°	1244.9	1267.0	1303.4	1332.8	1351.5	1362.3	1370.1	1368.2	1370.1	1371.1	1372.6
10°	1257.7	1288.6	1331.9	1359.9	1374.1	1374.6	1372.6	1365.7	1362.3	1362.8	1363.8
12.5°	1272.8	1307.3	1353.9	1377.5	1381.5	1370.6	1362.3	1350.5	1346.1	1344.1	1343.2
15°	1293.6	1332.8	1378.0	1386.8	1377.1	1363.2	1349.0	1329.8	1320.1	1312.2	1314.7
17.5°	1318.6	1361.8	1396.7	1390.3	1369.2	1346.5	1323.5	1294.5	1274.4	1266.0	1266.5
20°	1353.4	1392.3	1410.9	1382.9	1351.1	1316.6	1277.4	1241.9	1223.2	1214.9	1213.9
22.5°	1395.7	1433.1	1424.6	1370.1	1325.0	1270.0	1220.8	1194.7	1185.4	1179.6	1180.5
25°	1446.3	1478.3	1434.5	1351.5	1282.3	1208.1	1170.2	1161.8	1157.4	1153.0	1153.0
27.5°	1512.2	1529.3	1441.9	1324.0	1215.4	1142.3	1128.4	1130.0	1128.4	1121.0	1122.6
30°	1599.1	1595.6	1448.7	1279.3	1138.8	1082.8	1083.7	1090.1	1091.1	1086.2	1088.7
32.5°	1713.6	1678.6	1452.2	1221.3	1065.6	1030.7	1031.7	1038.5	1043.4	1035.1	1039.0
35°	1852.1	1775.5	1446.8	1148.6	1009.1	981.0	973.7	975.7	977.1	969.2	974.7
37.5°	2013.7	1884.1	1422.7	1068.0	962.4	932.4	916.8	903.4	895.5	888.3	893.2
40°	2191.0	2002.4	1378.5	989.4	910.3	880.9	857.3	832.2	805.6	795.9	800.3
42.5°	2376.8	2124.3	1325.0	914.3	850.4	826.4	801.2	765.0	725.1	705.0	707.5
45°	2569.4	2249.1	1272.4	840.1	788.9	778.7	749.7	705.9	662.8	637.1	635.2
47.5°	2758.0	2366.9	1195.3	765.4	731.5	742.8	720.2	679.9	631.8	591.5	587.1
50°	2938.3	2477.5	1069.0	689.7	684.8	732.0	710.4	652.4	597.4	545.8	541.4
52.5°	3117.1	2566.9	907.4	620.9	659.8	729.1	697.6	633.8	566.4	512.4	506.5
55°	3268.9	2613.1	751.6	562.0	623.4	704.0	682.3	611.6	522.8	465.2	460.3
57.5°	3355.4	2575.7	622.0	504.1	573.3	662.8	656.3	564.5	470.7	426.4	420.6
60°	3318.0	2424.4	515.9	453.5	525.6	618.0	611.1	517.8	430.8	389.1	383.1
62.5°	3112.2	2136.1	431.8	409.3	482.5	572.4	565.9	482.0	400.4	360.1	353.7
65°	2697.6	1737.7	366.5	372.4	438.7	517.3	526.6	451.9	376.3	337.0	330.7
67.5°	2057.5	1258.6	315.4	340.4	396.0	463.3	490.3	430.4	356.2	318.9	312.9
70°	1172.7	714.8	272.1	309.5	358.1	413.2	462.3	413.2	334.6	303.6	299.7
72.5°	444.6	328.2	235.3	278.6	321.7	370.9	431.3	386.1	309.5	286.4	282.5
75°	237.3	200.0	198.0	242.2	280.0	329.6	392.6	359.6	290.8	302.6	312.4
77.5°	161.6	141.4	165.5	207.4	234.3	283.9	351.3	319.3	252.0	251.0	231.3
80°	112.0	100.2	134.6	167.1	181.3	238.7	306.6	274.1	205.3	191.6	183.3
82.5°	67.3	65.3	100.8	124.7	128.2	184.2	254.0	229.9	168.0	146.4	147.4
85°	36.8	38.8	64.4	73.2	74.7	128.7	199.0	177.8	129.3	108.5	109.6
87.5°	10.4	13.2	23.6	29.0	35.9	66.8	118.4	105.6	64.9	45.2	45.2
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)