

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: P960856

Luminaire Tested: **NAV-SB1D-730-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-730-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10440.7 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

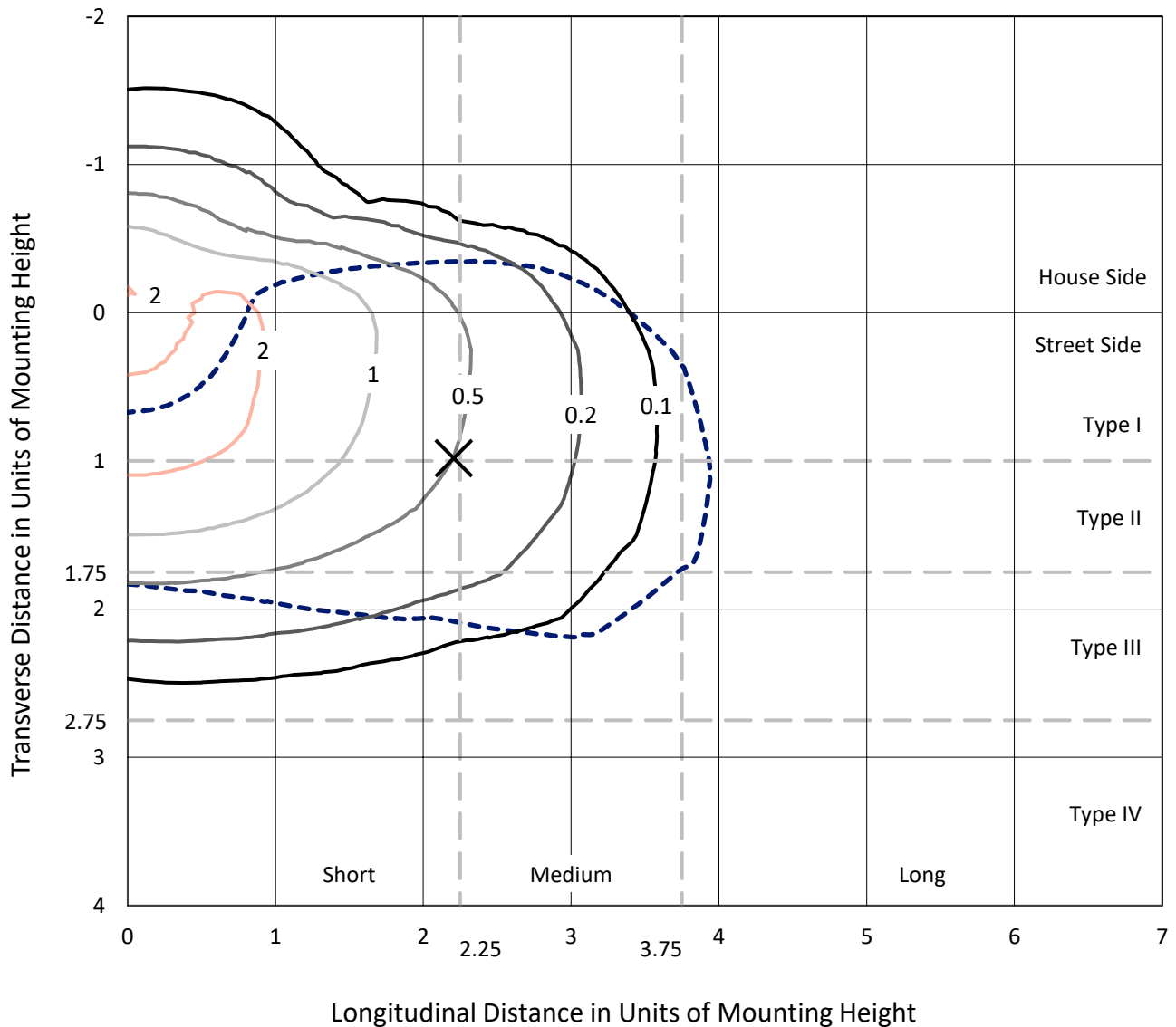
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

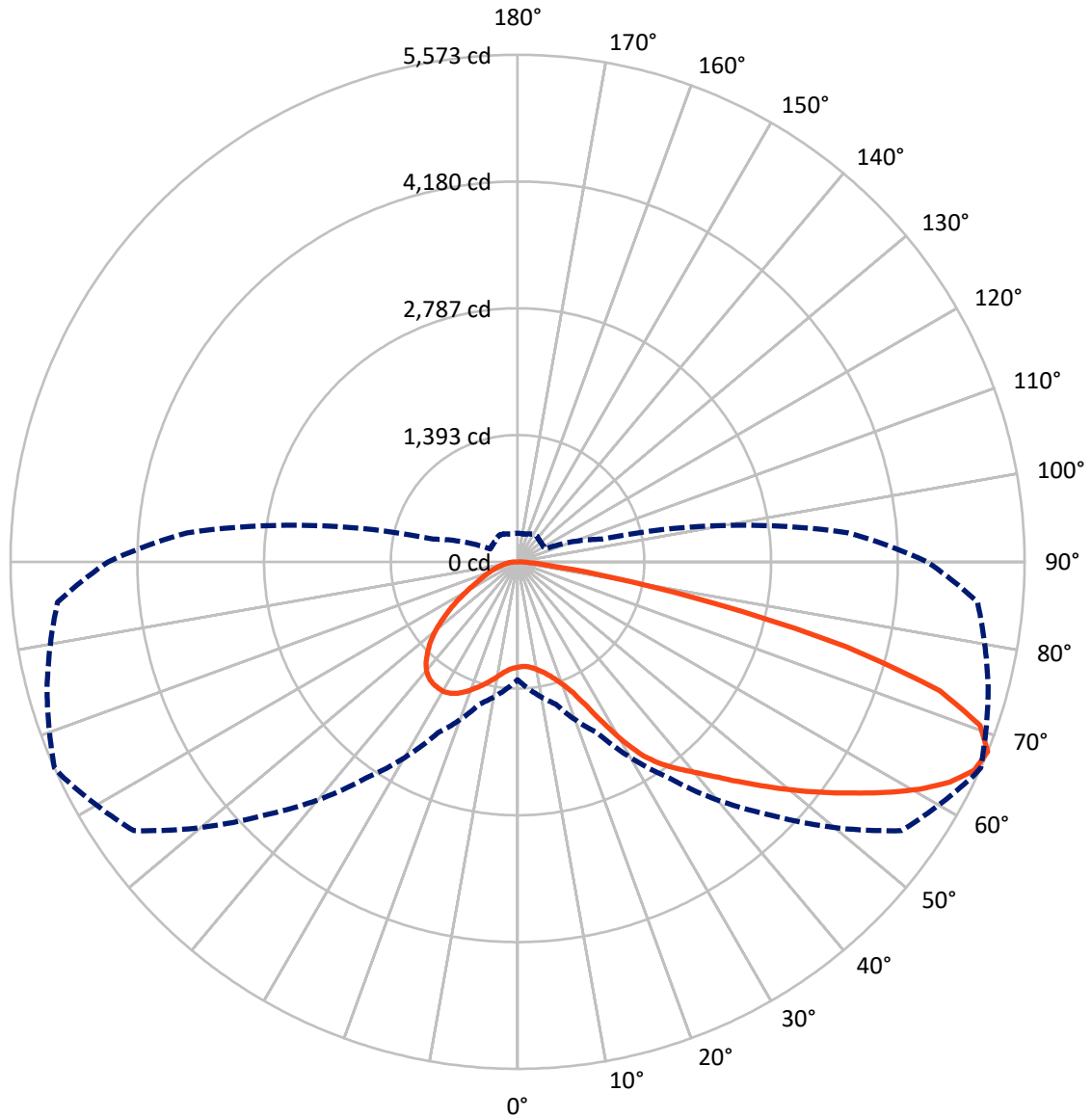
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2596.0	0.0	2596.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	7844.6	0.0	7844.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	10440.7	0.0	10440.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	1.1
10°-20°	379.3	3.6
20°-30°	731.1	7.0
30°-40°	1281.9	12.3
40°-50°	1905.8	18.3
50°-60°	2415.8	23.1
60°-70°	2363.8	22.6
70°-80°	1127.6	10.8
80°-90°	120.5	1.2
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°	10440.7	100.0
0°-180°	10440.7	100.0

Coefficient of Utilization



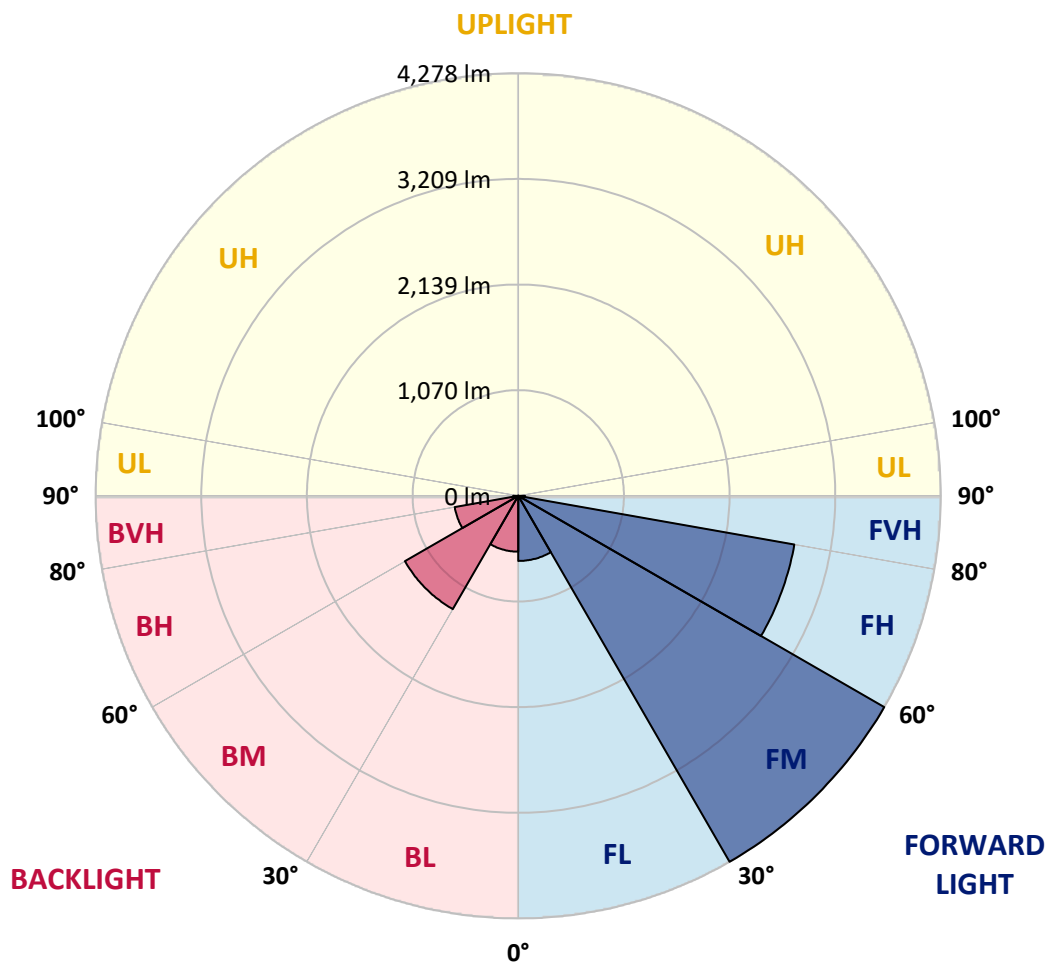
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	659.7	6.3			
FM (30°-60°)	4278.5	41.0			
FH (60°-80°)	2838.1	27.2			G2/5000
FVH (80°-90°)	68.3	0.7			G1/100
BL (0°-30°)	565.5	5.4	B2/1000		
BM (30°-60°)	1325.1	12.7	B2/2500		
BH (60°-80°)	653.3	6.3	B2/1000		G2/1000
BVH (80°-90°)	52.2	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1158.0	1158.0	1158.0	1158.0	1158.0	1158.0	1158.0	1158.0	1158.0	1158.0	1158.0
2.5°	1145.9	1152.5	1150.9	1148.1	1147.6	1148.7	1150.4	1152.0	1151.4	1154.1	1158.6
5°	1142.7	1149.2	1148.7	1148.7	1150.9	1155.3	1158.0	1160.7	1158.0	1161.3	1167.4
7.5°	1144.8	1149.7	1152.0	1154.1	1159.7	1167.9	1174.4	1180.5	1177.2	1181.0	1188.7
10°	1172.8	1176.7	1178.9	1178.9	1182.6	1192.0	1198.6	1209.6	1206.8	1212.9	1222.7
12.5°	1223.8	1227.6	1227.6	1225.5	1228.3	1234.3	1236.5	1248.6	1243.5	1253.5	1263.3
15°	1286.4	1294.1	1288.0	1284.2	1285.2	1291.3	1290.8	1300.1	1295.2	1303.4	1312.1
17.5°	1355.5	1365.4	1355.5	1354.9	1352.8	1359.4	1359.9	1368.1	1359.4	1365.4	1371.3
20°	1437.3	1450.9	1442.7	1445.5	1440.5	1443.3	1446.0	1458.1	1444.3	1448.7	1447.1
22.5°	1552.5	1568.9	1560.0	1570.5	1567.2	1565.1	1564.5	1585.9	1564.5	1566.1	1550.2
25°	1720.3	1740.0	1724.7	1738.9	1738.9	1746.1	1754.3	1781.8	1746.1	1735.6	1694.5
27.5°	1968.2	1988.0	1957.9	1966.6	1963.8	1981.4	1972.6	2040.7	2002.2	1985.2	1902.4
30°	2266.7	2301.7	2244.8	2242.5	2239.7	2267.7	2280.3	2325.3	2286.4	2269.4	2169.5
32.5°	2589.1	2625.9	2557.9	2538.2	2527.8	2544.8	2534.3	2570.5	2543.6	2517.3	2393.9
35°	2930.4	2966.6	2901.9	2863.4	2821.8	2786.2	2748.8	2758.2	2733.0	2692.9	2565.1
37.5°	3252.9	3319.4	3250.8	3209.6	3132.8	3063.1	2959.0	2915.6	2892.0	2855.2	2726.3
40°	3581.6	3619.4	3567.3	3532.2	3448.8	3339.7	3172.9	3081.3	3049.5	3013.8	2904.6
42.5°	3823.5	3859.6	3831.7	3807.6	3742.3	3615.6	3399.9	3285.3	3239.2	3199.2	3106.5
45°	4015.4	4042.3	4024.8	4033.6	4005.6	3882.7	3635.3	3504.2	3456.5	3407.6	3334.7
47.5°	4092.8	4121.3	4149.3	4201.4	4249.1	4158.6	3888.1	3741.1	3690.7	3640.8	3568.9
50°	4084.0	4113.1	4194.3	4305.1	4453.2	4423.0	4154.7	3993.5	3946.9	3889.9	3823.5
52.5°	4013.8	4046.7	4150.9	4335.2	4571.1	4621.0	4426.4	4254.1	4210.2	4142.1	4075.8
55°	3829.5	3849.2	4005.6	4266.7	4599.1	4759.3	4692.3	4531.6	4487.8	4392.8	4320.5
57.5°	3487.8	3516.3	3743.9	4081.9	4528.9	4853.1	4926.0	4823.4	4781.2	4644.7	4568.9
60°	3041.8	3087.3	3347.9	3771.4	4350.1	4852.6	5138.3	5110.3	5075.3	4892.6	4813.6
62.5°	2537.1	2589.8	2840.5	3332.5	4037.4	4714.9	5271.1	5350.6	5332.6	5121.3	5020.4
65°	1948.5	1984.7	2234.3	2764.7	3550.8	4419.2	5286.4	5514.7	5518.0	5295.3	5128.5
67.5°	1297.3	1401.6	1618.3	2074.6	2899.1	3935.9	5151.5	5541.6	5573.3	5355.0	5074.2
70°	633.0	770.2	982.5	1348.4	2074.6	3194.8	4798.7	5321.0	5391.8	5180.6	4750.5
72.5°	262.8	307.2	422.9	665.4	1190.9	2155.9	4090.1	4723.1	4854.2	4590.4	3994.0
75°	177.2	192.0	241.9	341.2	542.5	1063.1	2949.6	3521.7	3732.9	3466.9	2833.8
77.5°	136.6	146.0	176.1	238.6	322.6	402.1	1578.7	2122.4	2231.5	2065.9	1474.6
80°	107.5	114.7	131.6	173.9	228.8	215.0	538.1	961.7	1024.7	859.6	474.0
82.5°	93.3	96.0	94.4	118.0	151.9	125.7	176.6	355.0	391.7	284.1	154.7
85°	67.4	75.1	78.4	73.0	80.7	63.7	72.4	125.7	138.3	123.4	87.2
87.5°	27.5	40.6	49.9	47.2	29.6	18.1	22.4	36.8	42.2	46.1	28.5
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°	1158.0	1158.0	1158.0	1158.0	1158.0	1158.0	1158.0	1158.0	1158.0	1158.0	1158.0
2.5°	1159.1	1163.0	1165.7	1169.0	1171.2	1174.4	1181.0	1184.9	1185.4	1188.2	1187.7
5°	1169.5	1175.1	1181.0	1189.8	1199.7	1208.0	1220.6	1229.3	1232.6	1235.3	1234.8
7.5°	1192.0	1199.7	1210.6	1226.0	1240.2	1251.2	1266.6	1277.0	1287.5	1291.3	1291.8
10°	1225.5	1236.5	1252.3	1273.2	1288.5	1302.8	1318.8	1327.5	1337.9	1342.3	1344.5
12.5°	1267.2	1278.7	1299.5	1328.6	1342.9	1352.8	1358.2	1356.1	1358.2	1362.0	1363.1
15°	1314.9	1327.5	1351.1	1382.4	1392.3	1383.4	1371.3	1360.4	1358.7	1359.9	1363.8
17.5°	1371.3	1380.7	1408.1	1434.5	1427.3	1391.1	1364.8	1347.3	1338.4	1335.8	1339.6
20°	1450.4	1450.4	1472.9	1489.3	1441.6	1380.2	1339.1	1310.5	1292.4	1284.7	1283.1
22.5°	1546.4	1537.6	1551.8	1540.4	1438.9	1349.4	1292.4	1243.0	1215.6	1204.7	1202.9
25°	1668.2	1657.7	1653.9	1582.6	1419.1	1300.6	1208.0	1148.1	1124.0	1118.0	1119.1
27.5°	1852.0	1825.6	1775.7	1605.7	1382.9	1223.8	1109.2	1053.8	1040.1	1040.6	1042.2
30°	2096.6	2044.0	1921.6	1609.5	1323.7	1115.2	1008.3	968.7	962.2	964.9	974.3
32.5°	2323.2	2273.2	2070.8	1591.9	1232.6	1008.8	917.8	891.4	881.5	884.8	889.2
35°	2500.9	2487.2	2209.1	1567.2	1120.7	909.0	836.5	814.1	794.9	790.5	793.8
37.5°	2668.7	2663.3	2312.7	1532.7	1009.9	838.2	771.3	741.7	713.7	698.3	698.8
40°	2853.1	2847.6	2380.8	1479.5	911.7	776.7	712.6	673.6	639.1	611.1	613.9
42.5°	3060.4	3028.1	2413.2	1403.2	828.3	724.7	664.8	612.2	566.6	540.9	542.5
45°	3287.0	3214.0	2412.5	1306.2	758.1	676.9	613.9	539.3	497.0	472.8	471.8
47.5°	3527.2	3391.7	2382.9	1198.6	690.1	624.2	534.8	477.8	449.8	435.0	431.7
50°	3775.2	3558.0	2332.5	1075.2	620.4	564.5	485.4	446.5	425.2	411.4	406.5
52.5°	4008.3	3708.8	2271.6	935.3	549.6	506.4	463.5	433.4	410.8	395.5	388.9
55°	4224.9	3838.8	2185.5	792.1	492.1	467.4	453.2	427.8	402.1	384.0	376.9
57.5°	4417.5	3923.3	2036.8	657.7	450.9	440.4	442.2	418.5	388.9	373.6	363.7
60°	4577.8	3985.3	1816.8	533.2	417.5	414.2	425.2	401.0	366.4	348.9	341.2
62.5°	4673.7	3984.2	1546.9	436.6	388.9	390.0	402.6	379.0	344.0	327.5	322.6
65°	4665.5	3886.5	1250.7	373.6	361.5	362.6	379.0	355.0	325.3	315.4	314.9
67.5°	4500.4	3648.5	959.4	332.4	331.3	336.3	355.5	338.5	313.8	312.7	314.4
70°	4053.3	3154.2	691.2	299.5	300.0	307.2	332.4	328.0	307.7	310.0	309.3
72.5°	3250.2	2404.9	464.1	265.0	265.5	277.1	310.5	319.8	301.7	330.8	335.2
75°	2164.6	1499.8	298.4	228.2	228.8	243.5	291.3	303.9	285.3	329.6	332.4
77.5°	1040.1	674.1	216.2	192.0	192.0	205.7	251.7	272.0	243.0	256.1	234.8
80°	359.3	253.5	170.0	154.7	151.4	160.7	212.3	235.9	209.5	193.1	181.0
82.5°	141.6	131.6	136.6	120.1	109.2	115.2	165.1	194.7	154.2	139.3	138.8
85°	81.2	85.6	96.6	79.5	63.0	70.7	121.3	139.9	116.3	102.6	104.8
87.5°	21.9	30.1	44.4	41.1	28.5	30.1	57.6	77.4	66.9	51.6	53.2
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)