

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: P961879

Luminaire Tested: **NAV-SB2B-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961879
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-SB2B-727-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10713.3 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

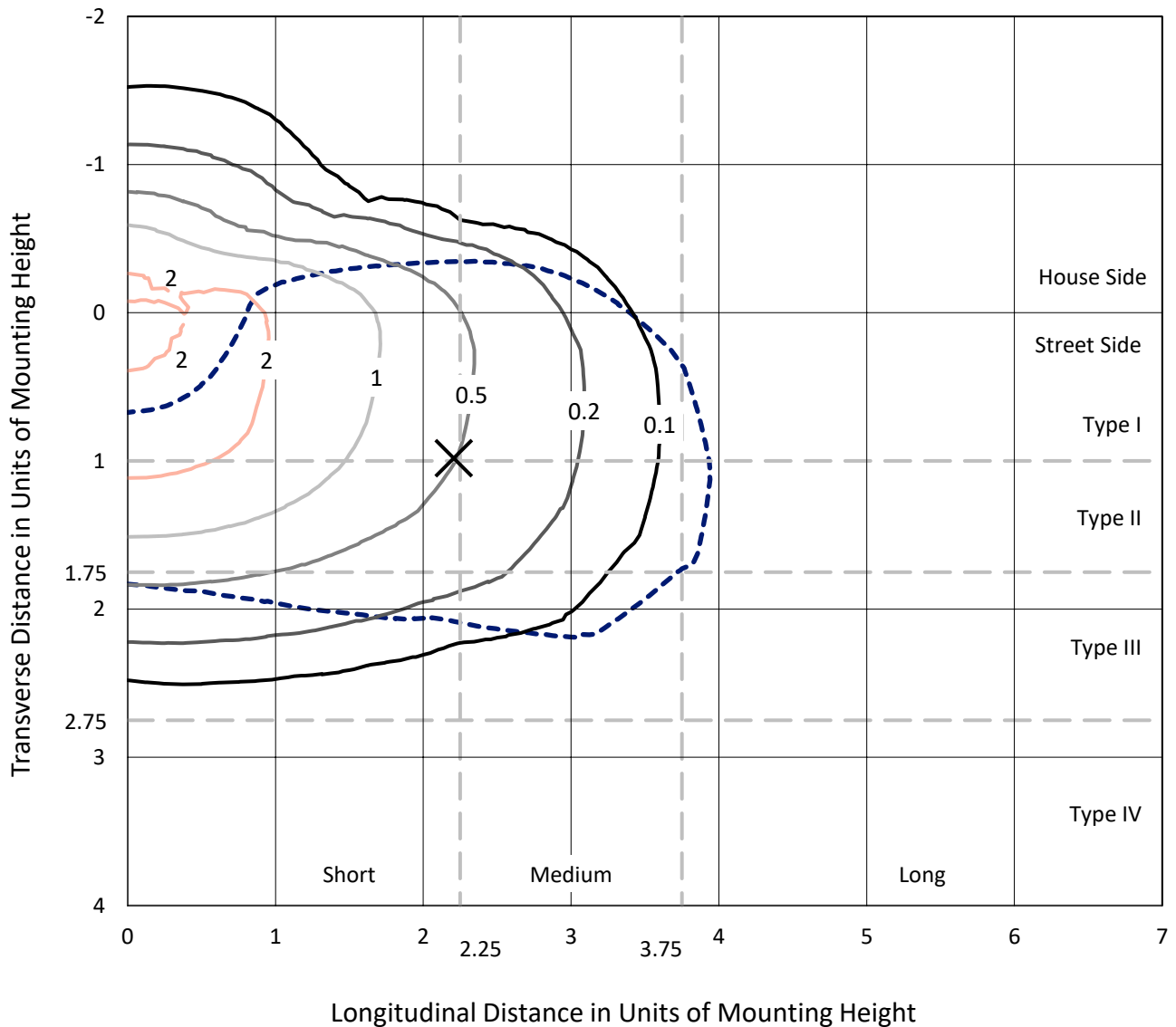
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

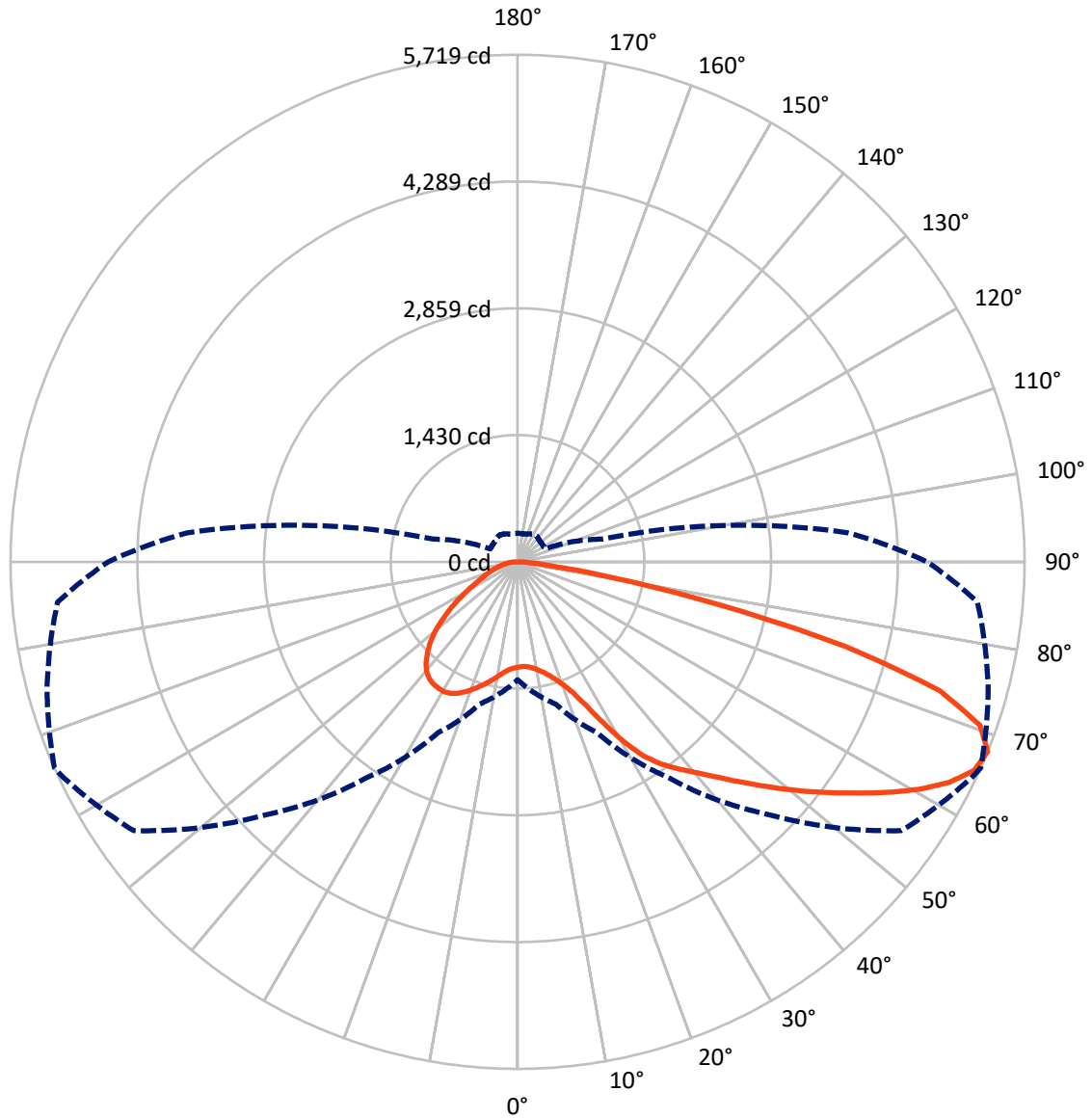
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	2663.8	0.0	2663.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	8049.5	0.0	8049.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	10713.3	0.0	10713.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	1.1
10°-20°	389.2	3.6
20°-30°	750.2	7.0
30°-40°	1315.4	12.3
40°-50°	1955.6	18.3
50°-60°	2478.9	23.1
60°-70°	2425.5	22.6
70°-80°	1157.0	10.8
80°-90°	123.7	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°	10713.3	100.0
0°-180°	10713.3	100.0

Coefficient of Utilization



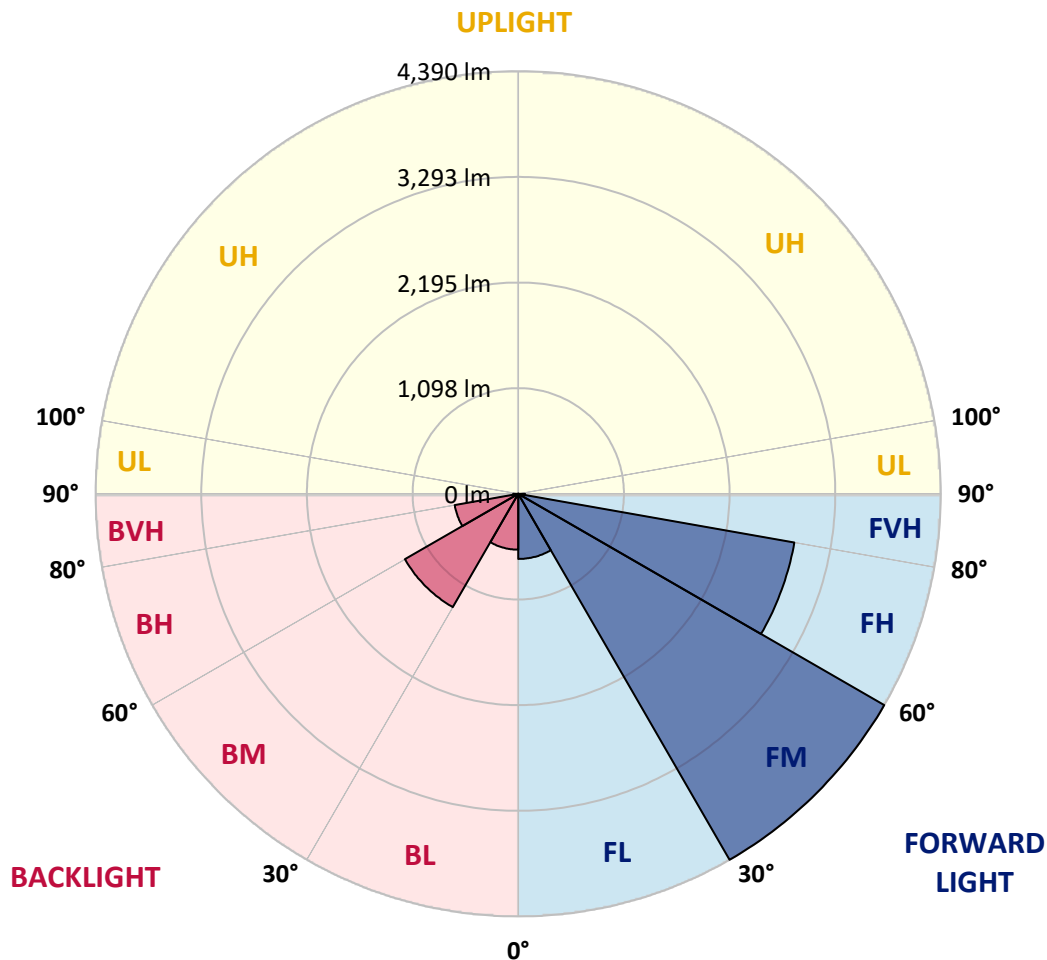
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	677.0	6.3			
FM (30°-60°)	4390.2	41.0			
FH (60°-80°)	2912.2	27.2			G2/5000
FVH (80°-90°)	70.1	0.7			G1/100
BL (0°-30°)	580.3	5.4	B2/1000		
BM (30°-60°)	1359.6	12.7	B2/2500		
BH (60°-80°)	670.3	6.3	B2/1000		G2/1000
BVH (80°-90°)	53.5	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°	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3
2.5°	1175.9	1182.6	1180.9	1178.1	1177.5	1178.6	1180.4	1182.0	1181.5	1184.3	1188.8
5°	1172.5	1179.3	1178.6	1178.6	1180.9	1185.4	1188.3	1191.0	1188.3	1191.7	1197.8
7.5°	1174.8	1179.8	1182.0	1184.3	1189.9	1198.3	1205.1	1211.3	1208.0	1211.9	1219.8
10°	1203.5	1207.3	1209.6	1209.6	1213.6	1223.1	1229.9	1241.2	1238.3	1244.6	1254.7
12.5°	1255.8	1259.7	1259.7	1257.5	1260.3	1266.5	1268.7	1281.1	1276.0	1286.2	1296.3
15°	1320.0	1327.9	1321.6	1317.7	1318.9	1325.0	1324.5	1334.0	1329.0	1337.4	1346.4
17.5°	1390.9	1401.0	1390.9	1390.3	1388.1	1394.8	1395.4	1403.8	1394.8	1401.0	1407.2
20°	1474.8	1488.8	1480.4	1483.2	1478.2	1480.9	1483.8	1496.2	1482.0	1486.6	1484.9
22.5°	1593.0	1609.9	1600.8	1611.5	1608.1	1605.9	1605.4	1627.3	1605.4	1607.0	1590.7
25°	1765.2	1785.4	1769.7	1784.3	1784.3	1791.7	1800.1	1828.3	1791.7	1780.9	1738.7
27.5°	2019.7	2039.9	2008.9	2017.9	2015.2	2033.1	2024.2	2094.0	2054.5	2037.1	1952.1
30°	2325.8	2361.9	2303.3	2301.0	2298.3	2327.0	2339.9	2386.1	2346.1	2328.7	2226.2
32.5°	2656.8	2694.5	2624.7	2604.4	2593.8	2611.2	2600.5	2637.6	2610.1	2583.1	2456.4
35°	3006.9	3044.0	2977.6	2938.3	2895.5	2858.9	2820.6	2830.1	2804.3	2763.2	2632.0
37.5°	3337.9	3406.0	3335.7	3293.4	3214.6	3143.2	3036.2	2991.8	2967.5	2929.8	2797.5
40°	3675.0	3713.9	3660.5	3624.4	3538.8	3426.9	3255.7	3161.7	3129.0	3092.5	2980.5
42.5°	3923.3	3960.5	3931.7	3907.0	3840.0	3710.0	3488.8	3371.1	3323.9	3282.8	3187.6
45°	4120.3	4147.9	4129.8	4138.8	4110.1	3984.1	3730.2	3595.7	3546.7	3496.6	3421.8
47.5°	4199.6	4228.9	4257.6	4311.2	4360.0	4267.2	3989.7	3838.8	3787.1	3735.8	3662.1
50°	4190.7	4220.5	4303.8	4417.5	4569.4	4538.5	4263.3	4097.7	4050.0	3991.5	3923.3
52.5°	4118.7	4152.4	4259.4	4448.5	4690.5	4741.8	4541.9	4365.2	4320.2	4250.4	4182.2
55°	3929.4	3949.7	4110.1	4378.1	4719.2	4883.6	4814.9	4650.0	4604.9	4507.5	4433.2
57.5°	3578.8	3608.1	3841.7	4188.5	4647.1	4979.9	5054.7	4949.4	4906.1	4765.9	4688.2
60°	3121.2	3167.9	3435.3	3869.8	4463.7	4979.2	5272.5	5243.8	5207.8	5020.3	4939.3
62.5°	2603.3	2657.4	2914.6	3419.5	4142.8	4838.0	5408.7	5490.4	5471.8	5255.1	5151.5
65°	1999.4	2036.5	2292.6	2836.9	3643.6	4534.6	5424.5	5658.6	5662.0	5433.5	5262.3
67.5°	1331.3	1438.2	1660.5	2128.8	2974.9	4038.7	5286.0	5686.3	5718.9	5494.8	5206.7
70°	649.5	790.3	1008.1	1383.5	2128.8	3278.3	4924.1	5460.0	5532.5	5315.9	4874.6
72.5°	269.6	315.2	434.0	682.8	1222.0	2212.2	4196.9	4846.4	4981.0	4710.2	4098.4
75°	181.8	197.0	248.3	350.1	556.7	1090.9	3026.6	3613.7	3830.4	3557.5	2907.8
77.5°	140.1	149.8	180.7	244.9	331.0	412.6	1620.0	2177.8	2289.8	2119.8	1513.0
80°	110.3	117.7	135.1	178.5	234.7	220.7	552.2	986.8	1051.4	882.0	486.4
82.5°	95.7	98.5	96.9	121.1	155.9	128.9	181.2	364.2	401.9	291.6	158.8
85°	69.2	77.1	80.5	74.8	82.7	65.3	74.3	128.9	141.9	126.7	89.5
87.5°	28.2	41.6	51.2	48.4	30.4	18.6	23.1	37.7	43.4	47.3	29.3
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°	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3
2.5°	1189.4	1193.3	1196.2	1199.5	1201.7	1205.1	1211.9	1215.9	1216.4	1219.2	1218.6
5°	1200.1	1205.7	1211.9	1220.9	1231.0	1239.4	1252.4	1261.5	1264.7	1267.6	1267.0
7.5°	1223.1	1231.0	1242.3	1258.1	1272.6	1283.9	1299.7	1310.4	1321.1	1325.0	1325.6
10°	1257.5	1268.7	1285.0	1306.5	1322.2	1336.8	1353.2	1362.2	1372.9	1377.4	1379.6
12.5°	1300.2	1312.1	1333.4	1363.4	1377.9	1388.1	1393.7	1391.4	1393.7	1397.7	1398.7
15°	1349.2	1362.2	1386.4	1418.5	1428.6	1419.6	1407.2	1395.9	1394.3	1395.4	1399.3
17.5°	1407.2	1416.8	1444.9	1471.9	1464.6	1427.5	1400.5	1382.4	1373.4	1370.6	1374.5
20°	1488.3	1488.3	1511.4	1528.3	1479.3	1416.2	1374.0	1344.7	1326.1	1318.3	1316.6
22.5°	1586.8	1577.8	1592.4	1580.6	1476.4	1384.7	1326.1	1275.5	1247.3	1236.0	1234.4
25°	1711.7	1701.0	1697.1	1623.9	1456.2	1334.6	1239.4	1178.1	1153.3	1147.2	1148.3
27.5°	1900.2	1873.3	1822.0	1647.6	1419.0	1255.8	1138.2	1081.3	1067.2	1067.7	1069.5
30°	2151.4	2097.3	1971.8	1651.5	1358.2	1144.3	1034.5	994.0	987.3	990.1	999.7
32.5°	2383.8	2332.6	2124.9	1633.4	1264.7	1035.1	941.7	914.7	904.6	907.9	912.5
35°	2566.2	2552.1	2266.7	1608.1	1149.9	932.6	858.4	835.3	815.6	811.1	814.5
37.5°	2738.4	2732.8	2373.1	1572.7	1036.3	860.1	791.4	761.1	732.3	716.6	717.1
40°	2927.6	2922.0	2442.9	1518.1	935.5	797.0	731.2	691.3	655.8	627.1	629.9
42.5°	3140.3	3107.1	2476.1	1439.8	849.9	743.5	682.2	628.2	581.5	555.0	556.7
45°	3372.8	3297.9	2475.6	1340.2	777.9	694.6	629.9	553.3	509.9	485.2	484.1
47.5°	3619.4	3480.3	2445.1	1229.9	708.1	640.5	548.8	490.3	461.6	446.4	443.0
50°	3873.8	3650.8	2393.4	1103.2	636.6	579.2	498.2	458.2	436.2	422.2	417.1
52.5°	4113.0	3805.6	2330.8	959.7	564.1	519.6	475.6	444.6	421.6	405.8	399.1
55°	4335.3	3939.1	2242.5	812.8	504.9	479.6	464.9	439.0	412.6	394.0	386.7
57.5°	4532.9	4025.8	2090.0	674.9	462.7	452.0	453.7	429.5	399.1	383.3	373.2
60°	4697.3	4089.3	1864.3	547.1	428.3	425.0	436.2	411.4	376.0	358.0	350.1
62.5°	4795.8	4088.2	1587.3	448.0	399.1	400.2	413.2	389.0	352.9	336.0	331.0
65°	4787.4	3988.1	1283.4	383.3	370.9	372.1	389.0	364.2	333.7	323.7	323.1
67.5°	4617.9	3743.7	984.5	341.1	340.0	345.0	364.8	347.3	322.0	320.8	322.6
70°	4159.1	3236.5	709.2	307.3	307.9	315.2	341.1	336.6	315.8	318.1	317.4
72.5°	3335.0	2467.7	476.2	271.8	272.4	284.2	318.6	328.2	309.5	339.4	343.9
75°	2221.2	1538.9	306.2	234.1	234.7	249.9	298.9	311.8	292.7	338.2	341.1
77.5°	1067.2	691.8	221.8	197.0	197.0	211.0	258.4	279.2	249.4	262.9	240.9
80°	368.7	260.0	174.5	158.8	155.4	164.9	217.8	242.0	215.0	198.1	185.7
82.5°	145.2	135.1	140.1	123.3	112.0	118.2	169.4	199.8	158.2	143.0	142.4
85°	83.3	87.8	99.1	81.6	64.8	72.6	124.4	143.5	119.3	105.3	107.5
87.5°	22.5	31.0	45.6	42.2	29.3	31.0	59.1	79.3	68.7	52.9	54.6
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)