

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: P882227

Luminaire Tested: **NAV-SB2A-730-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-730-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8917 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

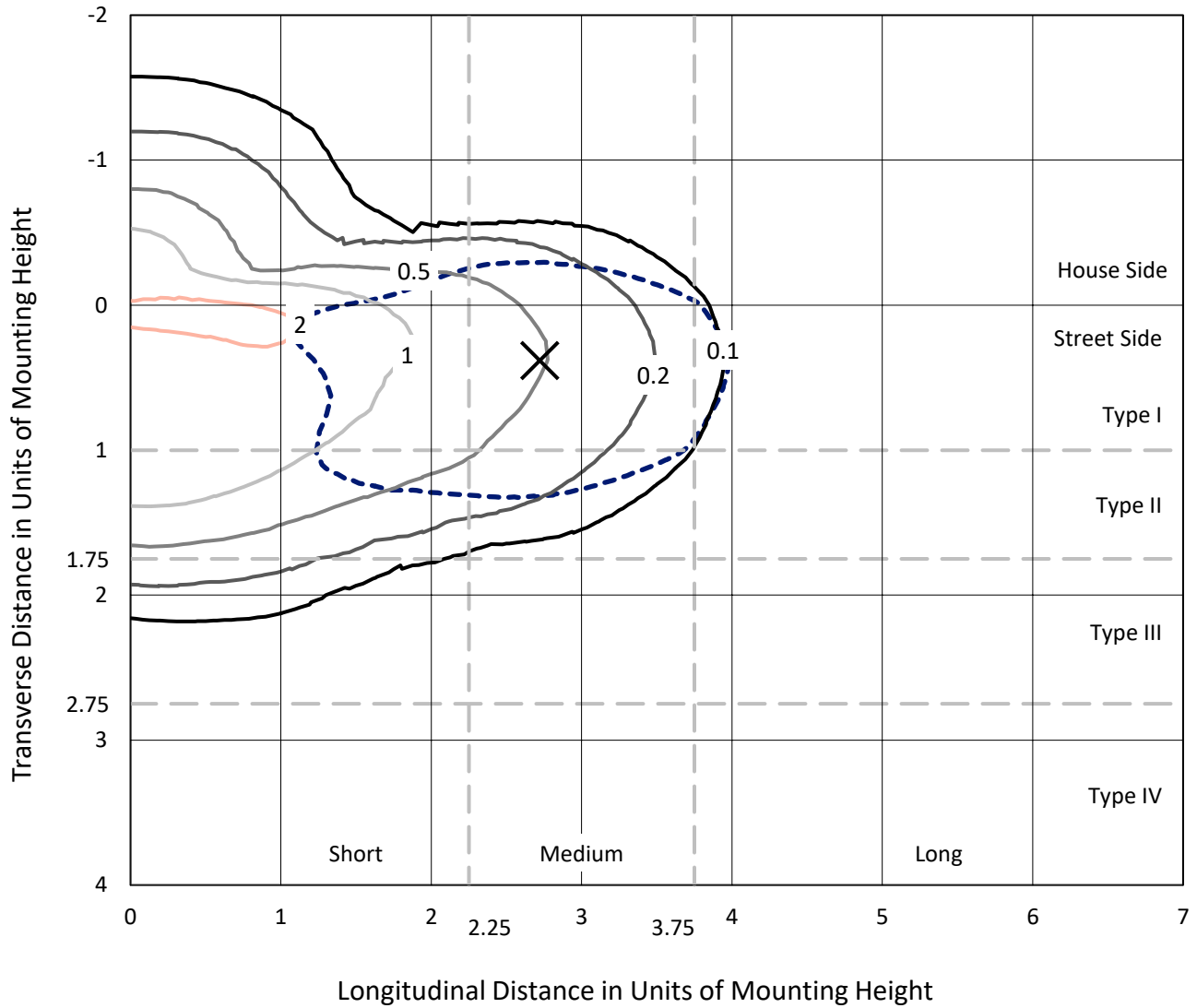
Input Watts (W): 57.3
Input Voltage (V): 120.0
Input Current (Ain): 0.484
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.038
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

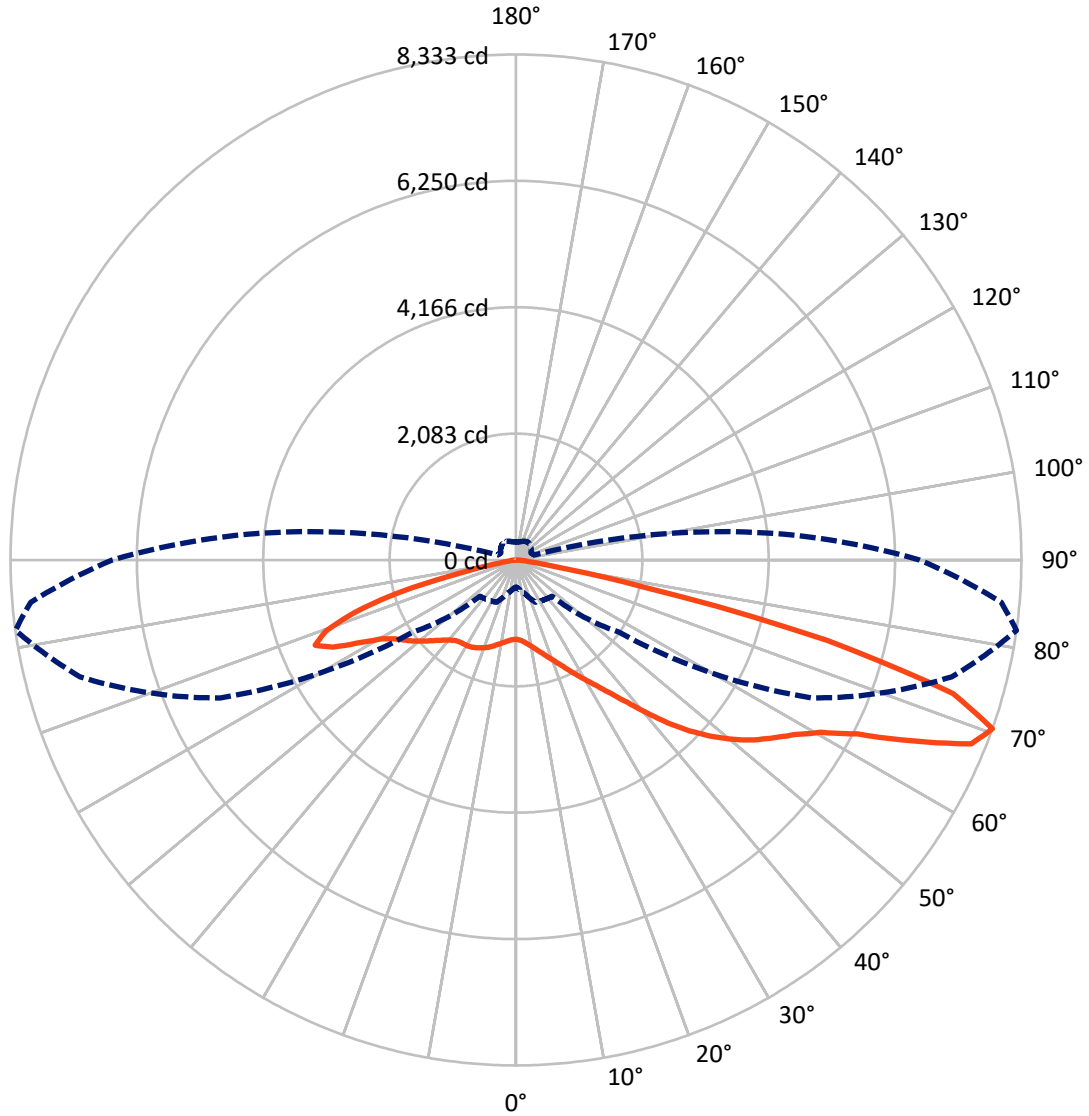
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	2198.3	0.0	2198.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	6718.7	0.0	6718.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	8917.0	0.0	8917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	1.4
10°-20°	354.6	4.0
20°-30°	593.3	6.7
30°-40°	926.8	10.4
40°-50°	1476.1	16.6
50°-60°	2054.2	23.0
60°-70°	2148.8	24.1
70°-80°	1123.1	12.6
80°-90°	116.6	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°	8917.0	100.0
0°-180°	8917.0	100.0

Coefficient of Utilization

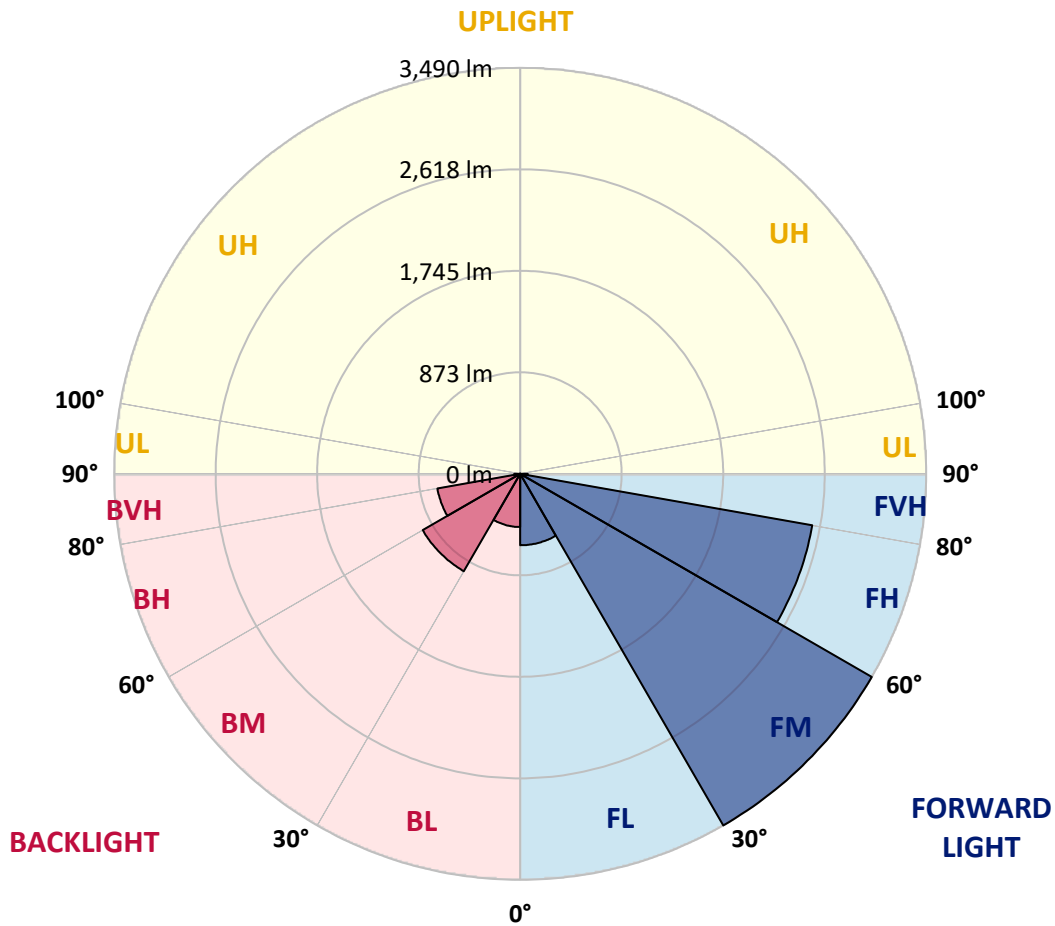


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	614.0	6.9			
FM (30°-60°)	3490.0	39.1			
FH (60°-80°)	2549.4	28.6			G2/5000
FVH (80°-90°)	65.3	0.7			G1/100
BL (0°-30°)	457.3	5.1	B1/500		
BM (30°-60°)	967.1	10.8	B1/1000		
BH (60°-80°)	722.5	8.1	B2/1000		G2/1000
BVH (80°-90°)	51.3	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°	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3
2.5°	1338.6	1346.1	1343.8	1341.4	1341.4	1338.1	1337.6	1332.9	1329.1	1323.0	1321.5
5°	1355.6	1363.6	1362.7	1364.6	1370.7	1372.2	1373.6	1370.7	1363.2	1355.6	1352.3
7.5°	1340.5	1349.5	1352.3	1363.6	1382.6	1399.6	1412.4	1417.6	1410.5	1399.6	1394.4
10°	1289.4	1299.3	1309.2	1336.2	1369.8	1410.0	1444.1	1464.4	1463.0	1452.6	1443.6
12.5°	1185.7	1196.2	1217.4	1270.0	1331.5	1402.4	1465.9	1508.4	1523.1	1515.5	1499.9
15°	1102.9	1111.9	1128.0	1182.0	1261.9	1369.8	1473.9	1556.7	1594.1	1589.8	1570.9
17.5°	1100.6	1104.4	1114.3	1139.8	1201.4	1318.7	1465.4	1604.0	1675.5	1675.0	1651.3
20°	1142.2	1143.6	1149.3	1154.5	1189.5	1279.9	1443.6	1643.3	1766.8	1766.8	1741.2
22.5°	1199.9	1199.0	1204.7	1199.9	1217.0	1276.6	1429.9	1677.8	1868.5	1876.1	1843.9
25°	1286.5	1281.8	1280.4	1269.5	1272.8	1307.3	1445.0	1717.1	1989.2	2004.8	1964.6
27.5°	1402.0	1394.4	1389.2	1364.1	1355.6	1370.7	1491.4	1764.4	2123.5	2150.5	2099.4
30°	1552.4	1538.7	1531.1	1487.6	1456.9	1459.2	1561.4	1827.3	2264.1	2307.6	2242.8
32.5°	1757.8	1736.5	1716.2	1644.7	1588.4	1569.9	1651.8	1914.4	2416.4	2486.0	2402.7
35°	1987.7	1970.7	1948.9	1838.7	1752.1	1709.5	1773.9	2036.0	2594.8	2705.1	2596.7
37.5°	2209.2	2194.5	2204.9	2056.4	1944.7	1882.7	1933.8	2199.3	2814.8	2977.6	2839.9
40°	2438.2	2426.8	2428.3	2286.3	2156.2	2086.6	2127.8	2404.1	3067.0	3301.7	3132.3
42.5°	2687.1	2678.6	2650.2	2524.3	2378.1	2313.3	2351.1	2640.7	3337.7	3670.8	3453.1
45°	2965.8	2960.6	2934.1	2789.8	2622.3	2549.4	2600.5	2901.9	3609.7	4018.1	3775.4
47.5°	3206.6	3210.9	3207.6	3086.0	2912.3	2805.4	2866.4	3174.4	3862.9	4344.6	4084.3
50°	3322.5	3344.8	3377.4	3339.6	3231.7	3122.9	3134.7	3437.5	4104.2	4650.7	4380.5
52.5°	3262.0	3304.1	3393.0	3453.6	3495.2	3472.5	3440.8	3698.7	4331.3	4927.0	4660.6
55°	3036.3	3095.4	3243.0	3389.3	3601.7	3766.8	3808.5	3988.3	4552.8	5170.2	4925.6
57.5°	2625.1	2721.1	2853.6	3149.4	3507.1	3909.3	4237.2	4390.0	4787.4	5430.0	5202.9
60°	1920.1	2048.8	2213.4	2653.5	3175.9	3833.1	4602.0	5007.0	5121.0	5766.4	5563.9
62.5°	1228.8	1308.3	1459.7	1874.2	2474.6	3442.7	4713.6	5778.2	5686.4	6318.1	6105.2
65°	841.3	892.4	1031.0	1263.8	1599.8	2562.6	4414.6	6356.4	6584.5	7192.5	7030.7
67.5°	611.3	650.1	768.4	972.3	1042.4	1516.5	3425.7	6329.9	7457.5	8093.4	7841.7
70°	445.7	473.2	572.5	768.4	802.0	843.6	2075.3	5380.8	7438.6	8332.8	8031.4
72.5°	330.3	349.2	415.9	596.2	649.2	569.7	1027.2	3910.7	6391.9	7537.0	7295.2
75°	238.9	253.1	302.3	456.1	519.5	433.9	512.4	2285.4	4458.6	5301.8	5344.4
77.5°	182.6	193.5	225.7	334.1	415.9	325.5	318.0	1051.4	2114.1	2124.5	2243.7
80°	146.7	153.8	171.3	235.2	318.9	243.7	207.2	424.4	668.1	565.4	593.3
82.5°	107.9	119.7	144.8	165.1	228.1	168.0	126.3	214.3	254.1	218.6	220.5
85°	61.5	69.6	87.5	118.3	145.7	102.7	72.4	95.1	118.3	97.0	86.6
87.5°	21.8	28.4	30.8	46.4	63.4	42.6	27.9	27.4	38.8	28.9	24.1
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°	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3	1307.3
2.5°	1316.8	1314.4	1305.0	1292.2	1279.0	1266.2	1261.9	1252.9	1246.8	1243.5	1247.3
5°	1343.3	1335.7	1313.5	1285.1	1255.3	1223.1	1200.4	1179.6	1164.4	1150.3	1155.9
7.5°	1381.2	1367.9	1329.6	1279.9	1226.9	1173.4	1133.7	1103.4	1083.1	1069.8	1072.7
10°	1425.2	1404.8	1346.1	1271.9	1190.0	1113.3	1066.5	1040.5	1027.7	1020.6	1022.5
12.5°	1475.8	1446.9	1363.2	1253.4	1133.7	1046.2	1014.0	1006.4	1006.9	1007.4	1008.3
15°	1538.2	1498.0	1376.9	1213.2	1060.4	994.6	988.9	1001.2	1014.0	1020.1	1019.7
17.5°	1608.7	1552.0	1379.3	1146.9	988.4	961.5	979.4	1005.9	1025.3	1033.9	1035.7
20°	1684.5	1606.9	1362.2	1053.3	929.3	934.5	966.7	1000.7	1022.0	1032.9	1035.7
22.5°	1771.0	1665.5	1321.5	954.8	881.0	905.2	943.0	976.1	998.4	1009.3	1012.1
25°	1869.9	1731.3	1257.7	872.0	839.4	872.0	909.9	937.3	955.3	965.2	968.1
27.5°	1979.7	1799.9	1172.5	806.3	803.0	838.0	869.2	890.5	900.0	907.5	910.4
30°	2090.0	1862.4	1069.3	756.6	771.3	804.4	826.6	836.1	838.9	840.3	843.6
32.5°	2209.2	1916.3	961.0	715.4	741.0	771.7	785.0	789.2	776.0	767.0	769.8
35°	2353.5	1974.0	855.0	682.8	711.2	737.7	741.9	738.1	722.5	704.1	705.0
37.5°	2531.9	2045.9	770.3	659.6	683.2	700.8	695.5	694.6	696.0	674.3	675.7
40°	2750.5	2139.6	708.3	641.6	660.5	664.3	649.6	657.7	664.8	631.7	632.6
42.5°	2993.2	2252.7	669.0	629.3	641.6	632.6	609.9	618.9	617.9	574.4	573.9
45°	3240.7	2375.7	655.3	620.3	624.1	606.1	581.0	583.4	563.5	524.3	525.7
47.5°	3486.7	2507.8	663.8	612.7	602.3	582.0	562.6	552.2	522.8	493.5	493.5
50°	3728.0	2646.4	695.1	597.6	572.5	560.7	546.5	528.0	496.8	471.7	469.8
52.5°	3951.8	2786.0	730.1	572.5	535.1	542.2	533.3	512.0	481.2	455.7	456.1
55°	4163.8	2925.6	743.8	538.0	500.1	526.2	521.0	481.7	444.8	424.0	422.1
57.5°	4394.7	3093.5	728.7	494.0	471.7	507.7	487.8	444.3	423.0	407.4	406.0
60°	4714.6	3357.1	696.0	439.6	444.8	480.3	446.2	428.2	405.0	387.5	386.6
62.5°	5245.9	3848.7	643.5	385.6	413.1	439.6	426.3	408.3	384.7	367.6	367.6
65°	6031.4	4531.9	544.6	343.5	377.6	399.8	405.0	387.0	362.4	344.5	345.4
67.5°	6693.8	4960.6	412.1	308.5	341.1	367.6	382.3	364.8	338.8	321.3	321.7
70°	6657.4	4649.3	314.7	274.0	309.0	335.9	354.9	341.1	313.2	296.7	298.1
72.5°	5913.1	3889.4	254.6	238.9	276.3	302.8	325.5	315.1	286.7	270.6	270.6
75°	4344.1	2760.9	203.5	203.5	235.6	268.3	293.4	286.7	260.7	249.4	246.0
77.5°	1831.1	1158.3	159.5	168.9	195.9	230.4	261.7	264.0	241.3	255.5	231.8
80°	486.9	319.4	121.6	133.0	153.8	190.2	227.6	226.6	202.0	188.8	175.5
82.5°	185.5	125.9	86.6	93.7	111.2	145.7	180.3	186.0	161.3	139.6	139.6
85°	71.4	53.9	53.5	56.3	64.8	96.5	136.3	141.0	121.6	103.1	106.5
87.5°	18.5	16.1	19.9	18.9	29.8	51.6	78.1	80.9	74.3	43.1	61.5
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)