

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: P963949

Luminaire Tested: **NAV-SB3B-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-722-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14571.4 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

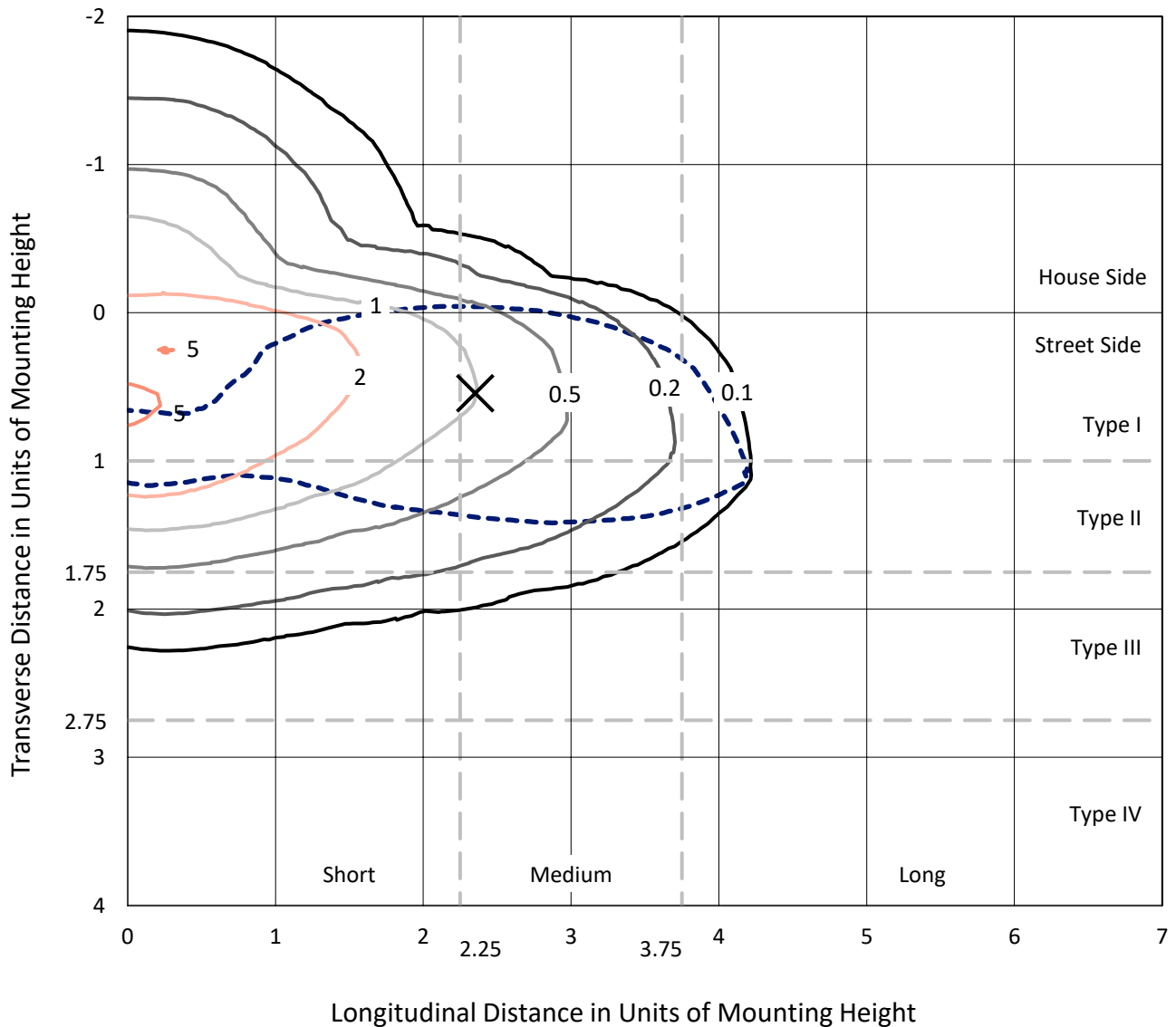
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

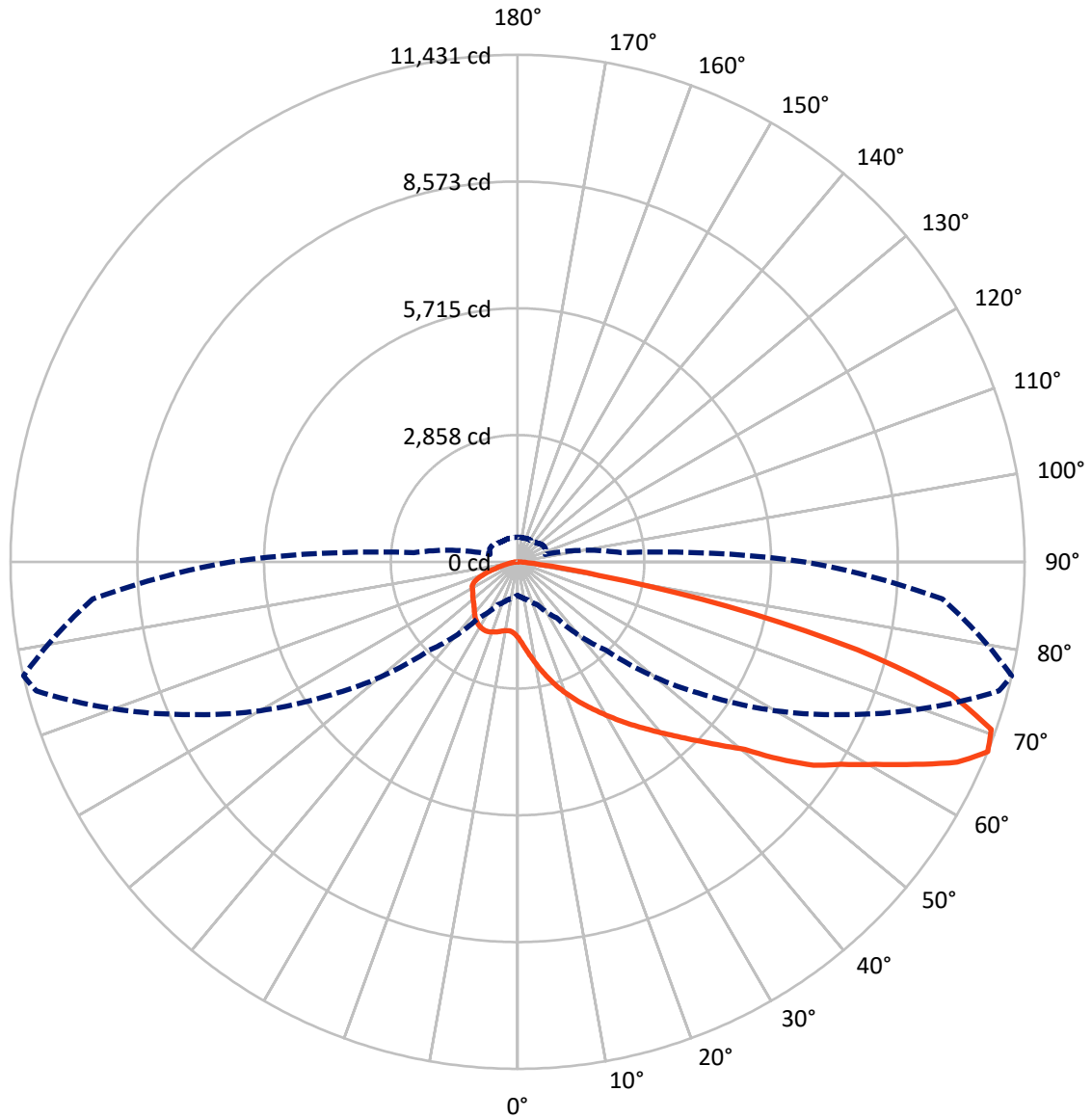
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2756.3	0.0	2756.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	11815.1	0.0	11815.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	14571.4	0.0	14571.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.3	1.3
10°-20°	658.4	4.5
20°-30°	1243.0	8.5
30°-40°	2002.5	13.7
40°-50°	2739.1	18.8
50°-60°	3089.7	21.2
60°-70°	2883.9	19.8
70°-80°	1580.8	10.8
80°-90°	190.7	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°	14571.4	100.0
0°-180°	14571.4	100.0

Coefficient of Utilization

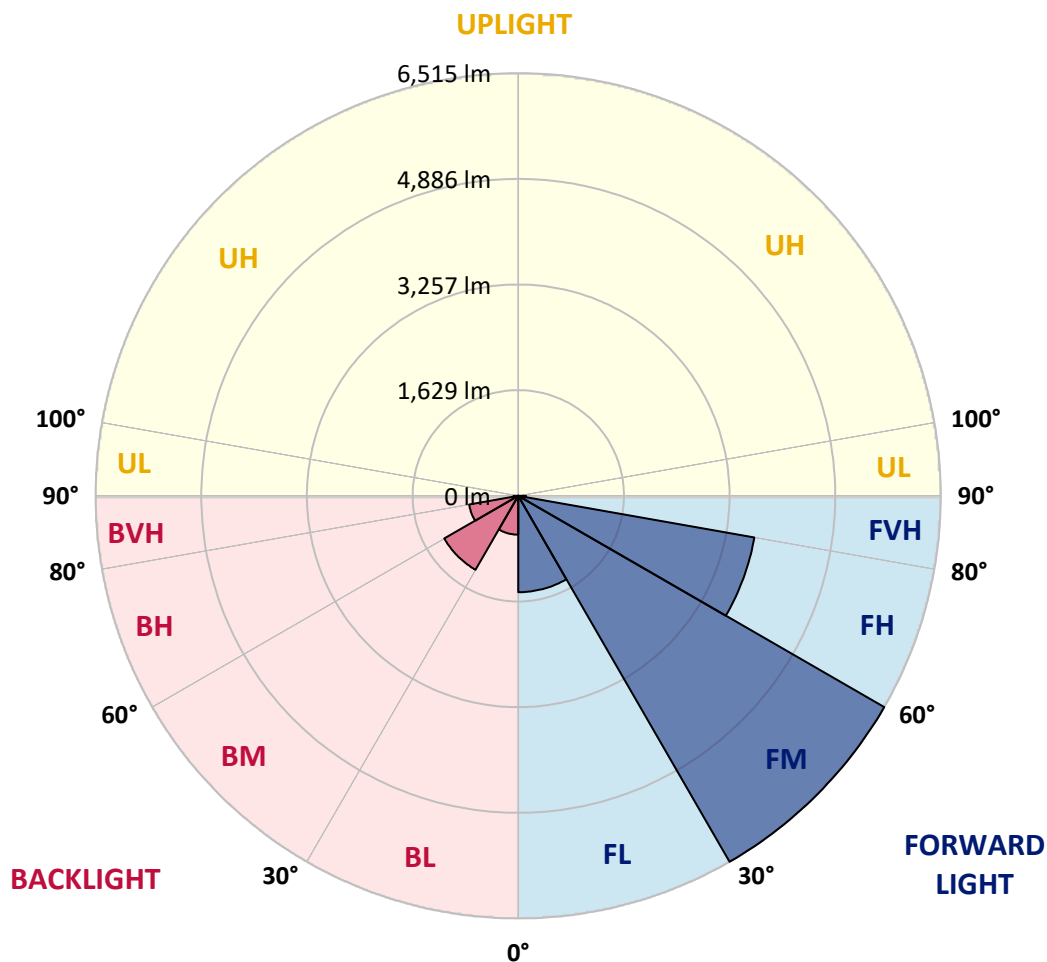


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1485.4	10.2			
FM (30°-60°)	6514.7	44.7			
FH (60°-80°)	3695.7	25.4			G2/5000
FVH (80°-90°)	119.3	0.8			G2/225
BL (0°-30°)	599.3	4.1	B2/1000		
BM (30°-60°)	1316.6	9.0	B2/2500		
BH (60°-80°)	769.0	5.3	B2/1000		G2/1000
BVH (80°-90°)	71.4	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1709.7	1709.7	1709.7	1709.7	1709.7	1709.7	1709.7	1709.7	1709.7	1709.7	1709.7
2.5°	2140.7	2155.7	2136.9	2136.9	2073.7	2040.7	1977.4	1929.4	1842.8	1827.8	1770.6
5°	2530.3	2549.1	2522.7	2511.5	2437.0	2368.6	2262.5	2157.9	2003.8	1988.0	1853.3
7.5°	2831.9	2856.0	2832.7	2820.6	2754.5	2677.7	2553.6	2407.7	2190.3	2159.5	1964.6
10°	3077.9	3081.7	3074.1	3078.6	3026.7	2963.6	2836.4	2666.4	2394.9	2352.8	2099.3
12.5°	3217.1	3234.3	3249.4	3276.4	3267.4	3228.3	3114.0	2910.9	2611.5	2557.4	2246.0
15°	3282.5	3312.6	3346.4	3408.8	3459.2	3469.0	3381.8	3173.4	2831.9	2766.5	2394.2
17.5°	3305.7	3334.3	3387.7	3478.0	3586.4	3659.2	3620.2	3428.4	3050.1	2974.9	2549.9
20°	3423.9	3432.1	3464.5	3550.2	3667.6	3788.7	3818.0	3673.6	3266.0	3180.9	2710.8
22.5°	3676.6	3660.1	3669.1	3708.1	3792.4	3909.8	3976.7	3890.2	3487.8	3390.0	2873.3
25°	4094.1	4045.9	3997.8	3952.6	3995.6	4061.7	4137.7	4106.9	3720.2	3596.1	3037.3
27.5°	4621.3	4562.7	4456.6	4308.4	4256.5	4279.8	4313.7	4307.7	3935.4	3809.7	3206.5
30°	5140.3	5071.9	4945.5	4731.1	4594.3	4532.5	4507.0	4489.7	4169.3	4035.4	3377.3
32.5°	5554.8	5500.6	5376.5	5136.6	4937.9	4832.7	4747.7	4686.0	4413.8	4279.8	3557.8
35°	5917.3	5866.9	5724.7	5463.0	5247.1	5135.0	5023.7	4892.1	4668.0	4532.5	3751.8
37.5°	6248.3	6197.9	6003.0	5730.8	5513.4	5435.9	5336.7	5113.2	4923.0	4795.1	3957.1
40°	6457.4	6446.1	6264.1	5955.7	5730.1	5691.6	5658.5	5369.8	5205.8	5086.9	4182.8
42.5°	6510.8	6535.6	6391.2	6137.7	5922.6	5891.7	5969.2	5660.0	5523.2	5409.6	4438.6
45°	6382.2	6453.6	6358.8	6186.6	6059.5	6042.9	6244.5	5977.5	5874.5	5770.6	4747.0
47.5°	6056.4	6177.6	6138.4	6114.3	6096.3	6167.7	6486.7	6314.4	6272.3	6182.1	5099.0
50°	5399.1	5628.5	5697.0	5848.9	6023.4	6264.8	6707.1	6682.3	6737.1	6646.2	5527.7
52.5°	4262.6	4578.5	4975.6	5356.1	5799.2	6232.5	6949.3	7210.3	7441.9	7392.3	6209.1
55°	3518.6	3660.8	3966.1	4664.2	5364.4	6096.3	7058.4	7636.8	8141.5	8097.1	6725.8
57.5°	2947.0	3074.1	3262.2	3845.1	4707.1	5787.2	7126.0	7897.0	8620.6	8616.0	7235.9
60°	2334.0	2468.6	2661.2	3074.1	3939.1	5253.1	7111.0	8193.3	9232.1	9269.7	7857.9
62.5°	1641.9	1790.2	2003.8	2388.9	3154.6	4561.1	6804.2	8407.8	9951.9	10054.2	8606.3
65°	1079.3	1177.1	1338.1	1670.5	2350.5	3671.3	6218.2	8435.5	10722.1	10895.1	9308.8
67.5°	756.7	794.3	889.1	1069.6	1549.5	2815.4	5284.7	8147.5	11235.8	11430.7	9613.5
70°	590.5	609.3	657.4	729.6	973.3	1893.2	4049.7	7398.3	11126.1	11329.1	9295.3
72.5°	509.9	528.0	546.1	555.1	652.9	1168.9	2743.2	6185.9	10091.8	10229.5	8082.0
75°	462.6	467.1	482.2	479.1	497.9	758.2	1583.3	4507.0	7962.4	7915.0	5966.2
77.5°	388.9	394.9	419.7	415.9	442.3	518.2	822.2	2908.6	5162.1	4840.2	3320.8
80°	329.4	332.4	359.6	355.1	384.4	375.4	419.7	1482.6	2189.6	1854.8	957.6
82.5°	114.3	141.4	274.5	282.8	293.4	227.1	242.2	604.8	668.7	512.2	200.8
85°	55.7	59.4	139.9	198.5	197.8	114.3	118.1	215.9	210.6	165.4	66.9
87.5°	9.0	11.3	16.5	77.5	61.7	30.1	40.6	42.1	43.7	37.6	15.1
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°	1709.7	1709.7	1709.7	1709.7	1709.7	1709.7	1709.7	1709.7	1709.7	1709.7	1709.7
2.5°	1728.5	1690.8	1611.9	1538.9	1481.7	1426.9	1396.0	1369.7	1354.6	1351.7	1351.7
5°	1775.1	1697.6	1554.0	1432.8	1353.9	1295.2	1264.4	1244.9	1235.0	1229.1	1228.3
7.5°	1842.0	1728.5	1523.9	1386.2	1303.5	1261.4	1245.6	1242.6	1241.8	1242.6	1244.9
10°	1934.6	1778.9	1520.9	1374.9	1305.7	1282.5	1281.7	1282.5	1285.5	1286.2	1287.0
12.5°	2034.6	1830.8	1532.9	1384.8	1334.3	1321.5	1319.3	1318.6	1320.8	1322.4	1323.1
15°	2143.7	1899.2	1553.2	1405.8	1365.9	1352.4	1350.1	1345.6	1344.9	1344.1	1343.4
17.5°	2255.7	1966.9	1575.8	1428.3	1386.2	1367.5	1359.1	1348.6	1340.4	1338.1	1340.4
20°	2369.3	2033.9	1591.6	1439.6	1387.7	1361.4	1344.9	1326.9	1312.5	1304.2	1307.3
22.5°	2490.4	2103.8	1601.4	1436.6	1374.2	1338.1	1308.0	1287.0	1265.2	1250.8	1251.6
25°	2608.5	2164.7	1600.6	1420.9	1347.9	1302.0	1263.6	1236.6	1206.5	1191.5	1191.5
27.5°	2722.1	2219.6	1581.8	1393.0	1310.3	1259.1	1213.3	1180.9	1151.6	1137.2	1136.5
30°	2839.5	2265.6	1552.5	1352.4	1265.9	1209.5	1159.1	1131.3	1104.9	1091.4	1090.6
32.5°	2956.0	2307.7	1511.1	1302.0	1214.7	1160.6	1111.0	1085.4	1069.6	1069.6	1070.3
35°	3079.4	2337.0	1456.2	1243.3	1160.6	1108.7	1069.6	1054.5	1053.1	1044.0	1041.7
37.5°	3209.5	2355.8	1389.3	1183.2	1107.2	1058.3	1046.2	1028.2	1013.2	993.6	990.6
40°	3346.4	2374.6	1308.8	1120.7	1050.7	1023.7	1018.4	994.4	951.5	903.3	896.6
42.5°	3512.7	2387.4	1225.3	1058.3	991.4	982.4	989.8	948.5	880.1	843.9	844.7
45°	3705.2	2408.4	1148.5	996.6	930.4	930.4	962.1	907.8	851.5	828.9	832.6
47.5°	3954.9	2457.3	1077.1	929.0	874.0	889.1	900.4	859.0	827.4	799.6	798.8
50°	4316.0	2574.7	1003.4	860.5	831.2	861.2	845.4	821.3	784.5	762.0	759.7
52.5°	4764.2	2643.9	938.0	798.8	794.3	824.4	801.9	779.2	751.4	721.3	715.3
55°	5069.6	2656.7	883.0	753.7	769.5	766.5	758.2	737.9	722.8	683.0	683.7
57.5°	5411.1	2682.2	837.9	726.6	753.7	720.6	717.6	700.3	680.7	653.6	644.6
60°	5819.5	2722.1	798.8	716.1	740.2	690.4	675.5	668.7	649.1	635.6	639.3
62.5°	6264.8	2758.2	758.9	717.6	724.4	661.1	638.6	636.3	624.3	619.8	619.8
65°	6568.7	2659.7	709.3	716.1	699.6	631.1	602.5	601.8	591.9	590.5	589.7
67.5°	6462.6	2347.6	642.4	695.1	673.9	601.0	569.4	566.4	553.6	554.3	554.3
70°	5931.6	1902.2	549.8	643.1	642.4	573.9	534.7	525.0	507.7	510.8	513.7
72.5°	4935.7	1409.6	425.7	556.6	591.9	549.1	495.0	479.1	457.4	460.3	459.6
75°	3564.5	958.3	309.9	423.4	515.3	519.8	455.8	428.8	402.4	406.9	408.5
77.5°	1824.0	543.0	227.9	291.8	404.7	472.3	420.5	384.4	378.3	420.5	414.4
80°	595.0	272.2	158.0	204.6	265.5	386.6	368.6	327.2	325.6	335.5	288.1
82.5°	177.5	115.1	101.6	134.7	146.7	296.3	318.2	247.4	212.9	224.2	231.6
85°	60.9	55.7	57.9	66.9	69.9	173.7	222.6	164.0	155.0	170.8	168.5
87.5°	14.2	19.6	16.5	15.1	15.1	42.1	86.5	68.5	94.8	63.1	60.9
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)