

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: P882376

Luminaire Tested: **NAV-SB2B-722-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882376  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2B-722-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

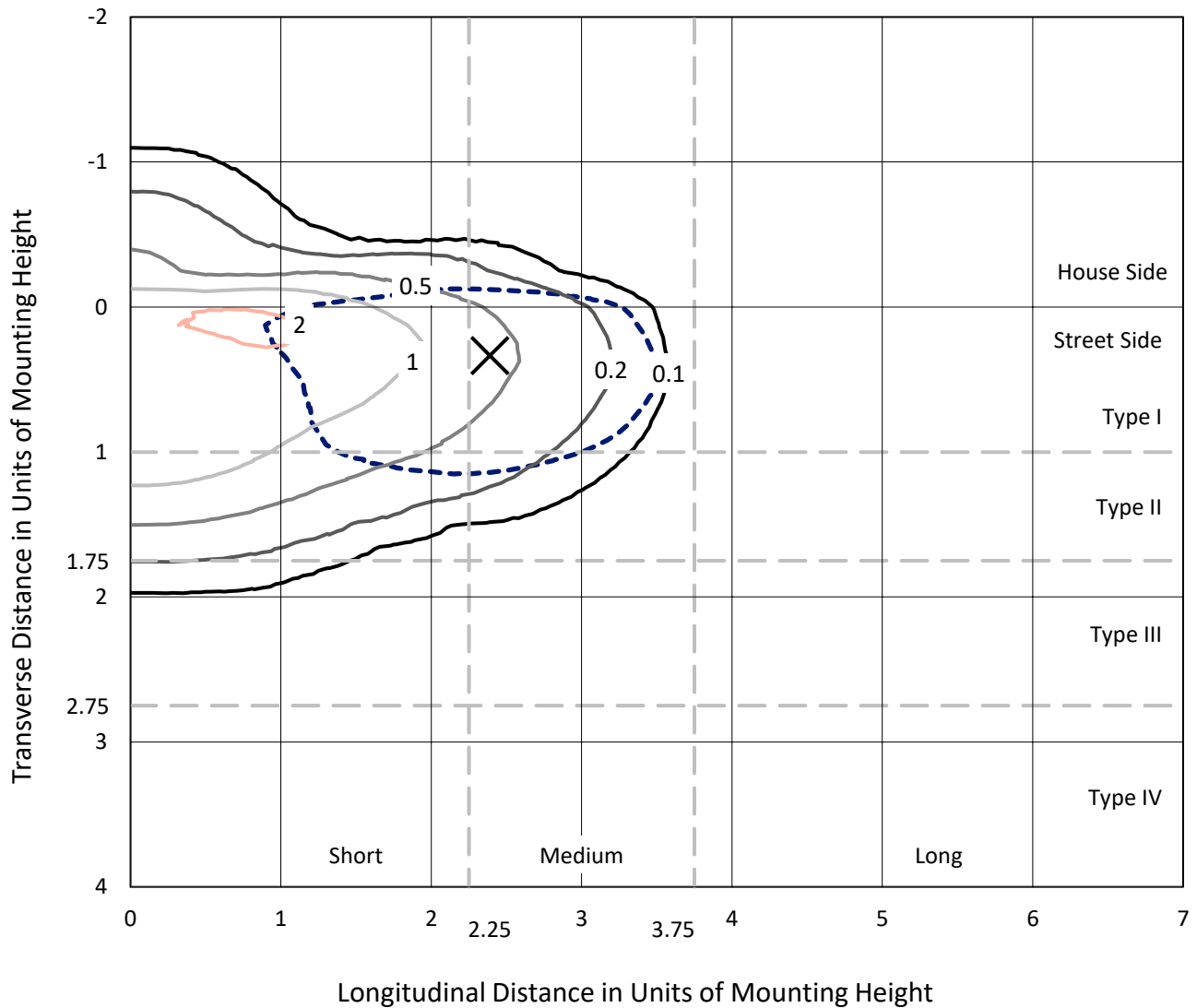
Lumens per Lamp: N/A  
Luminaire Lumens: 6678 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.627  
Voltage Rise (V): NR  
Power Factor: 0.988  
Total Harmonic Distortion (THDi): 13.593  
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

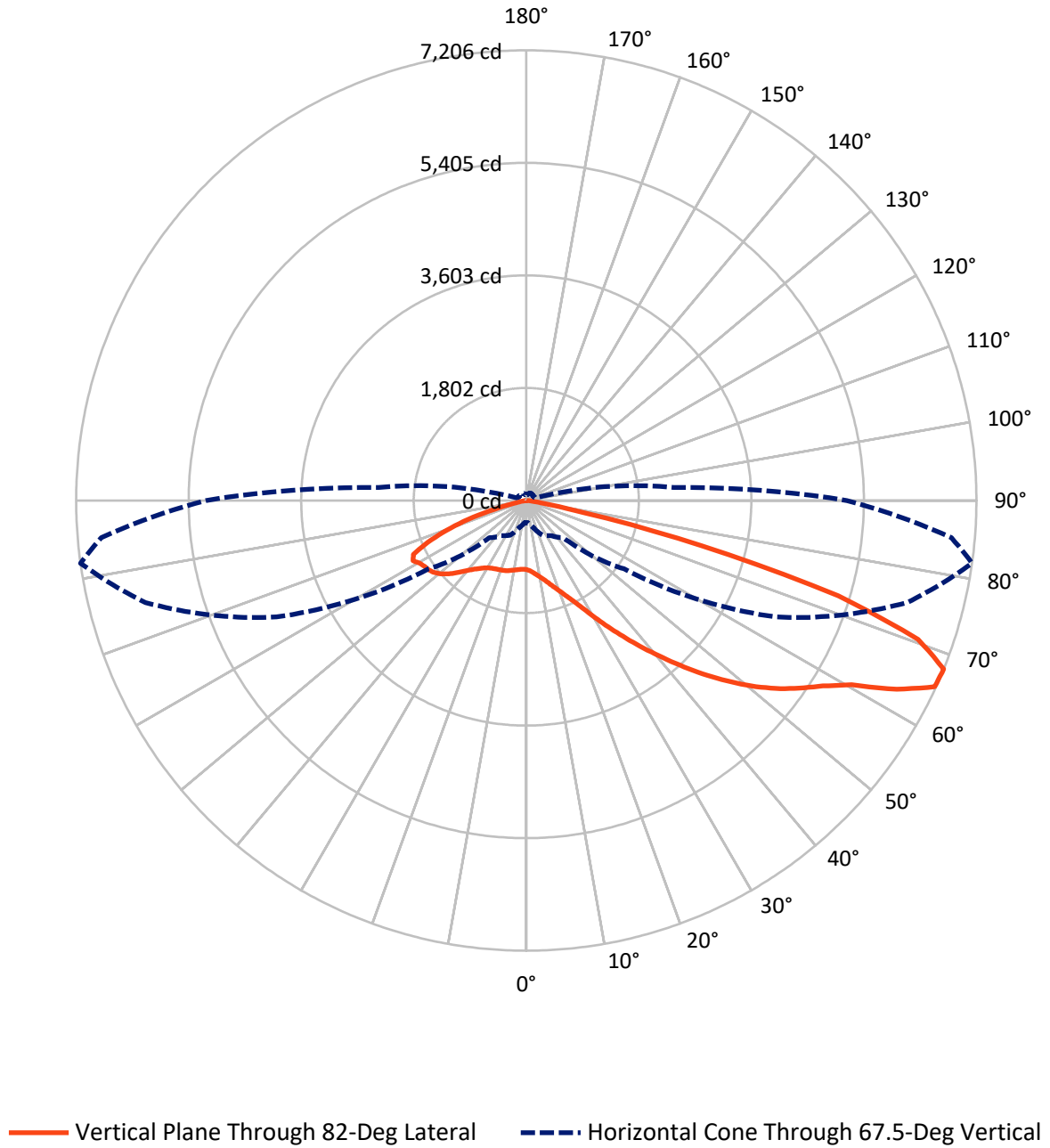
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1209.7	0.0	1209.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	5468.3	0.0	5468.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	6678.0	0.0	6678.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.6	1.5
10°-20°	256.1	3.8
20°-30°	410.2	6.1
30°-40°	725.4	10.9
40°-50°	1271.0	19.0
50°-60°	1695.2	25.4
60°-70°	1578.1	23.6
70°-80°	605.7	9.1
80°-90°	37.6	0.6
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°	6678.0	100.0
0°-180°	6678.0	100.0

**Coefficient of Utilization**



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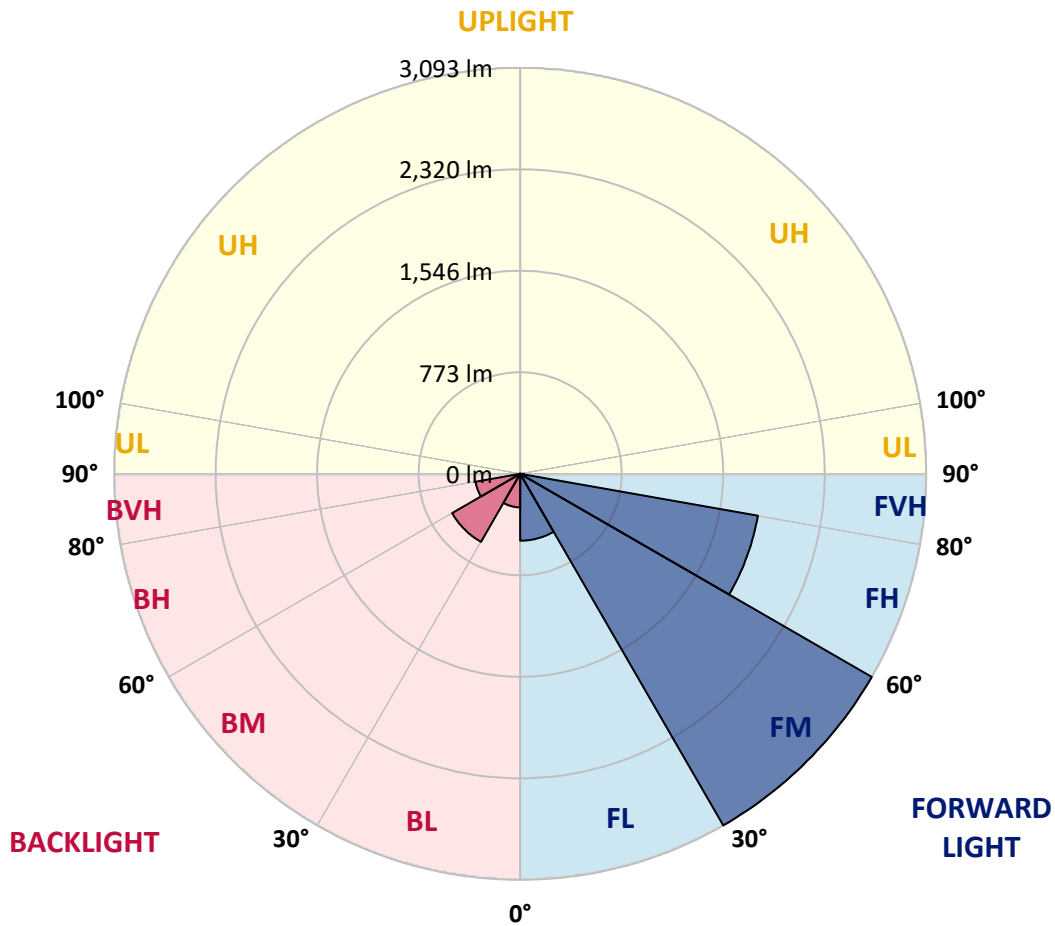
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	509.5	7.6			
FM (30°-60°)	3093.0	46.3			
FH (60°-80°)	1838.6	27.5			G2/5000
FVH (80°-90°)	27.4	0.4			G1/100
BL (0°-30°)	255.5	3.8	B1/500		
BM (30°-60°)	598.6	9.0	B1/1000		
BH (60°-80°)	345.3	5.2	B1/500		G1/500
BVH (80°-90°)	10.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1106.3	1106.3	1106.3	1106.3	1106.3	1106.3	1106.3	1106.3	1106.3	1106.3	1106.3
2.5°	1169.3	1176.0	1172.2	1170.3	1166.9	1162.1	1158.2	1146.2	1133.7	1125.6	1122.7
5°	1192.9	1199.6	1199.1	1201.0	1203.4	1204.9	1203.9	1190.5	1172.7	1158.7	1150.6
7.5°	1172.7	1180.4	1186.6	1196.2	1213.1	1230.8	1239.5	1236.6	1218.3	1199.1	1189.0
10°	1115.5	1123.6	1138.5	1161.1	1196.7	1235.2	1267.4	1282.3	1270.8	1249.6	1235.7
12.5°	1010.6	1018.8	1048.1	1097.2	1156.8	1223.6	1285.2	1325.1	1328.0	1306.8	1290.5
15°	892.8	901.0	932.3	993.8	1084.7	1191.9	1294.8	1370.3	1395.8	1377.5	1357.8
17.5°	819.8	827.0	850.5	900.1	994.8	1128.4	1291.4	1418.4	1476.5	1462.1	1438.6
20°	797.6	803.9	815.0	849.6	928.4	1062.6	1269.3	1463.6	1563.6	1555.4	1528.9
22.5°	821.2	827.0	830.3	845.7	895.2	1019.3	1241.4	1509.7	1664.5	1665.5	1633.3
25°	875.5	881.3	877.5	887.1	908.7	1005.8	1230.8	1564.0	1791.5	1802.0	1765.5
27.5°	965.0	965.4	956.3	955.8	959.2	1026.0	1241.9	1622.2	1951.6	1971.3	1926.1
30°	1144.3	1137.1	1102.0	1064.0	1046.7	1086.6	1272.7	1691.0	2140.5	2175.6	2118.9
32.5°	1420.8	1410.2	1345.8	1254.9	1163.5	1184.2	1328.0	1769.3	2346.3	2409.8	2340.5
35°	1720.8	1717.9	1650.6	1515.5	1355.9	1323.2	1417.9	1872.2	2570.8	2671.8	2589.6
37.5°	1999.6	1998.2	1959.7	1800.6	1606.3	1516.9	1562.1	2006.9	2811.2	2957.4	2860.3
40°	2254.5	2258.8	2220.3	2078.0	1882.3	1765.5	1758.3	2173.2	3078.6	3268.5	3153.1
42.5°	2474.7	2479.5	2440.5	2335.2	2154.9	2040.5	1999.2	2377.1	3339.6	3602.6	3466.1
45°	2624.2	2654.0	2648.2	2564.1	2434.8	2316.0	2288.6	2632.9	3637.2	3957.0	3796.9
47.5°	2666.5	2693.9	2737.2	2748.7	2669.9	2553.0	2585.7	2941.0	3938.2	4311.8	4129.6
50°	2562.2	2587.7	2677.6	2797.3	2852.1	2816.0	2874.7	3271.4	4246.4	4665.7	4456.0
52.5°	2356.4	2382.4	2495.8	2685.3	2908.8	3022.3	3164.6	3596.9	4545.0	5000.8	4765.2
55°	2058.8	2086.2	2231.9	2446.3	2800.7	3107.4	3406.5	3921.9	4818.6	5302.3	5044.1
57.5°	1653.9	1674.1	1825.6	2125.6	2528.5	3022.8	3584.8	4276.7	5076.3	5598.4	5320.5
60°	1078.0	1095.7	1271.7	1606.3	2077.5	2740.1	3620.4	4672.4	5418.6	5983.5	5693.1
62.5°	716.9	728.9	833.2	1078.9	1463.1	2197.3	3412.2	4988.3	5920.6	6653.8	6332.1
65°	491.9	503.9	608.2	779.4	945.3	1453.5	2813.6	4946.5	6375.4	7186.0	6805.7
67.5°	351.0	361.1	449.5	611.1	684.2	844.3	1907.3	4411.8	6310.0	7206.2	6831.2
70°	251.5	257.2	330.3	476.0	543.8	507.2	1060.6	3374.2	5524.9	6654.3	6311.0
72.5°	176.0	177.9	229.3	362.5	438.0	370.2	504.8	2249.7	4178.6	5222.9	4892.6
75°	119.2	121.6	154.3	265.9	351.5	282.7	267.3	1206.3	2453.0	2891.0	2591.5
77.5°	73.1	74.0	99.5	181.7	263.0	215.4	172.1	511.1	949.1	931.8	794.3
80°	41.3	41.3	63.5	113.0	179.3	139.0	120.7	217.3	300.5	264.0	232.7
82.5°	23.1	23.6	46.2	70.2	118.8	82.2	66.4	100.5	129.8	114.9	100.0
85°	9.6	10.6	28.4	33.2	56.7	40.9	26.9	42.3	48.1	42.8	31.3
87.5°	1.0	1.4	8.7	6.3	6.7	8.2	3.8	8.2	6.7	6.7	4.8
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°	1106.3	1106.3	1106.3	1106.3	1106.3	1106.3	1106.3	1106.3	1106.3	1106.3	1106.3
2.5°	1113.5	1106.3	1088.0	1066.9	1039.0	1025.5	1007.3	994.8	984.2	985.2	975.5
5°	1135.2	1116.9	1076.0	1025.1	961.6	916.4	868.3	835.1	808.2	802.5	789.5
7.5°	1165.0	1136.1	1064.5	972.7	865.4	784.2	711.6	664.9	631.8	621.2	610.6
10°	1203.4	1161.6	1049.6	906.8	752.5	649.1	571.2	534.6	512.1	504.4	498.6
12.5°	1248.2	1190.9	1029.9	826.5	636.1	536.6	487.0	468.8	461.6	459.2	457.7
15°	1304.4	1227.5	1000.1	731.3	537.5	467.8	446.7	444.3	445.2	444.3	443.8
17.5°	1371.2	1267.4	951.5	633.2	471.2	432.7	425.0	426.9	429.4	428.9	427.9
20°	1444.3	1306.8	889.5	546.2	426.0	407.7	403.4	405.3	407.2	406.3	405.8
22.5°	1527.5	1349.1	820.7	478.4	395.7	384.6	379.8	380.3	380.3	378.4	377.4
25°	1627.0	1395.8	748.6	430.3	372.6	364.0	358.2	356.3	353.4	347.6	346.7
27.5°	1745.8	1445.3	679.4	396.7	354.3	346.2	339.4	334.6	327.4	317.8	316.8
30°	1879.4	1505.4	620.7	375.5	339.9	331.8	324.1	316.8	306.3	294.2	293.3
32.5°	2036.7	1569.8	577.9	361.6	326.9	318.3	309.2	300.5	289.0	276.9	277.4
35°	2224.2	1647.7	552.9	351.9	316.8	305.3	295.2	285.6	276.9	266.4	265.4
37.5°	2427.6	1730.4	545.2	347.1	310.1	292.3	280.8	274.1	273.1	266.8	266.4
40°	2650.2	1828.5	551.0	344.3	302.9	279.8	267.3	265.9	268.3	257.2	257.7
42.5°	2885.8	1944.8	560.6	340.9	292.8	267.3	255.3	255.3	253.4	238.0	238.0
45°	3140.6	2079.0	570.2	332.7	280.8	254.8	245.7	242.3	234.1	219.2	218.8
47.5°	3397.3	2215.5	577.4	317.8	266.4	244.2	236.1	228.4	216.4	202.9	202.4
50°	3641.1	2338.1	569.7	295.7	250.0	234.1	225.5	214.9	201.9	192.8	191.4
52.5°	3858.9	2444.4	537.1	269.7	232.7	223.6	215.9	204.8	194.2	184.6	183.7
55°	4048.3	2530.4	479.4	245.2	217.3	214.4	206.7	192.8	178.4	170.2	169.2
57.5°	4230.1	2595.8	407.2	225.0	203.4	204.3	192.8	180.3	166.8	158.2	157.2
60°	4471.9	2683.3	334.2	206.3	188.5	191.4	178.9	169.7	152.9	141.8	140.4
62.5°	4858.5	2819.4	265.4	183.2	171.2	172.1	166.8	155.8	135.6	122.6	121.6
65°	5165.2	2769.4	209.1	158.2	151.5	152.9	152.9	140.9	119.2	104.3	102.9
67.5°	5130.6	2371.3	166.8	133.7	132.7	133.7	137.0	126.9	105.8	93.8	91.8
70°	4726.3	1886.2	133.7	111.1	115.4	113.0	122.6	115.9	95.2	83.2	81.7
72.5°	3856.5	1358.7	101.9	91.8	88.5	92.3	110.6	104.3	79.3	65.9	64.4
75°	2253.5	725.0	76.0	72.6	63.9	76.9	98.1	88.9	60.6	48.6	47.1
77.5°	733.7	252.9	55.8	53.4	47.6	62.0	83.7	75.0	49.5	38.5	37.0
80°	196.6	76.4	38.0	35.1	30.8	46.2	66.4	59.6	35.6	25.0	24.5
82.5°	78.9	32.2	22.1	19.7	16.8	31.7	52.4	48.1	26.4	15.9	15.9
85°	25.5	10.6	8.2	6.3	7.7	19.7	31.3	32.7	18.8	8.2	6.3
87.5°	3.4	1.4	1.4	1.9	1.4	3.4	9.6	9.1	5.3	1.0	0.0
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)