

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: P961560

Luminaire Tested: **NAV-SB2A-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-830-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

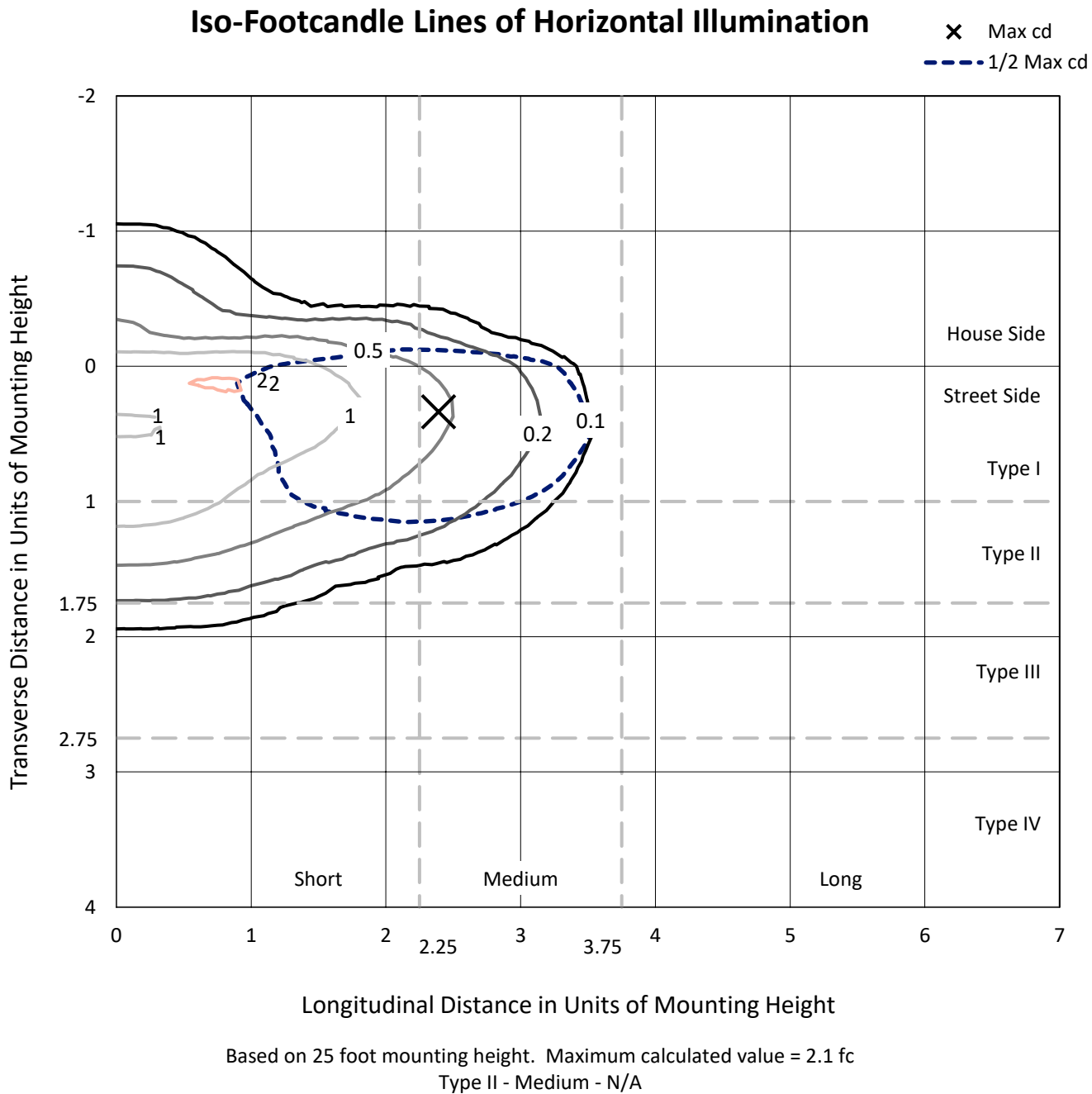
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6033.2 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 57.3
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

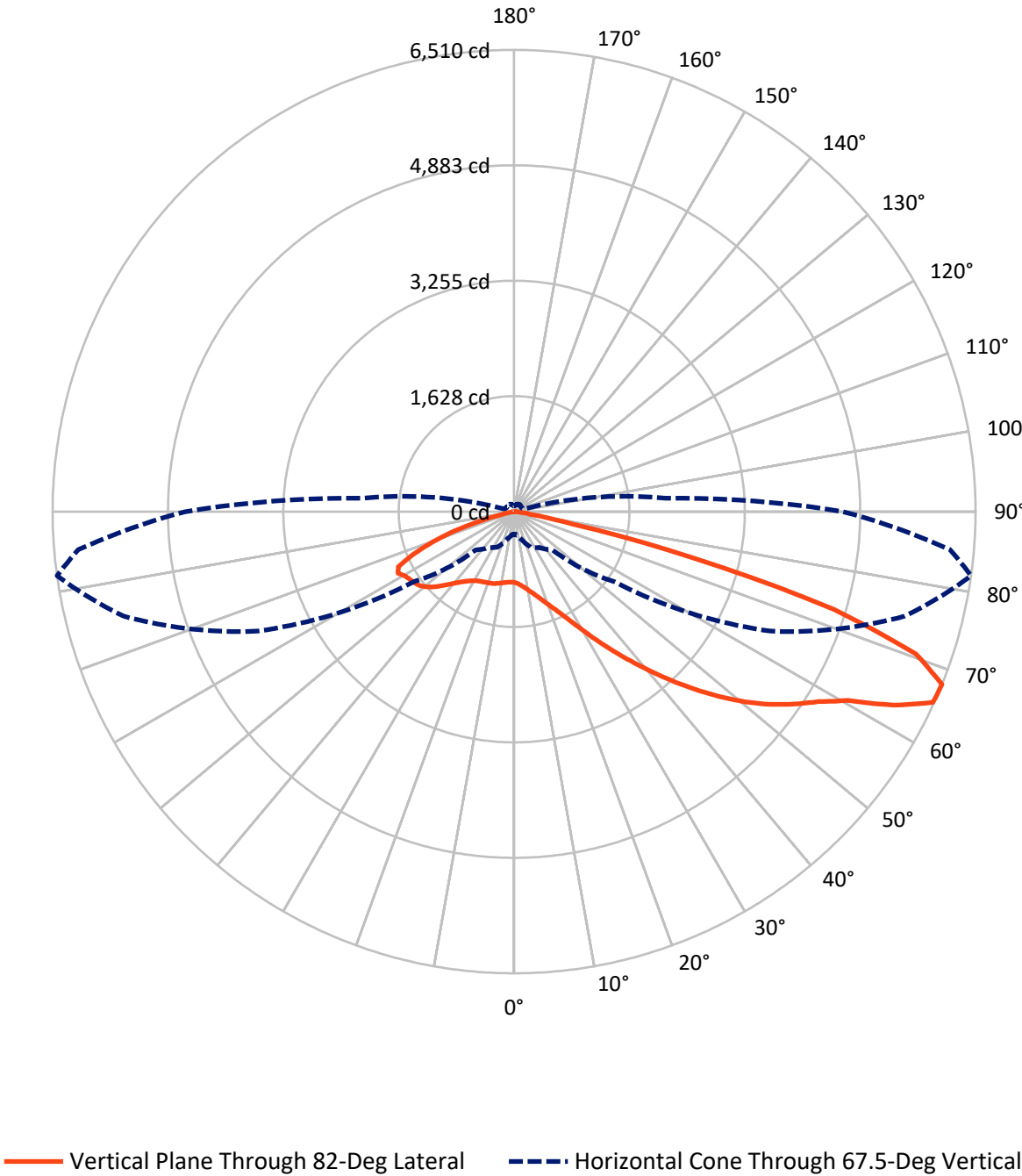


REPORT NUMBER: P961560
CATALOG NUMBER: NAV-SB2A-830-U-T2-HSS



REPORT NUMBER: P961560
CATALOG NUMBER: NAV-SB2A-830-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P961560

CATALOG NUMBER: NAV-SB2A-830-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1092.9	0.0	1092.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4940.3	0.0	4940.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	6033.2	0.0	6033.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	1.5
10°-20°	231.4	3.8
20°-30°	370.6	6.1
30°-40°	655.4	10.9
40°-50°	1148.3	19.0
50°-60°	1531.5	25.4
60°-70°	1425.7	23.6
70°-80°	547.2	9.1
80°-90°	34.0	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°	6033.2	100.0
0°-180°	6033.2	100.0

Coefficient of Utilization



REPORT NUMBER: P961560

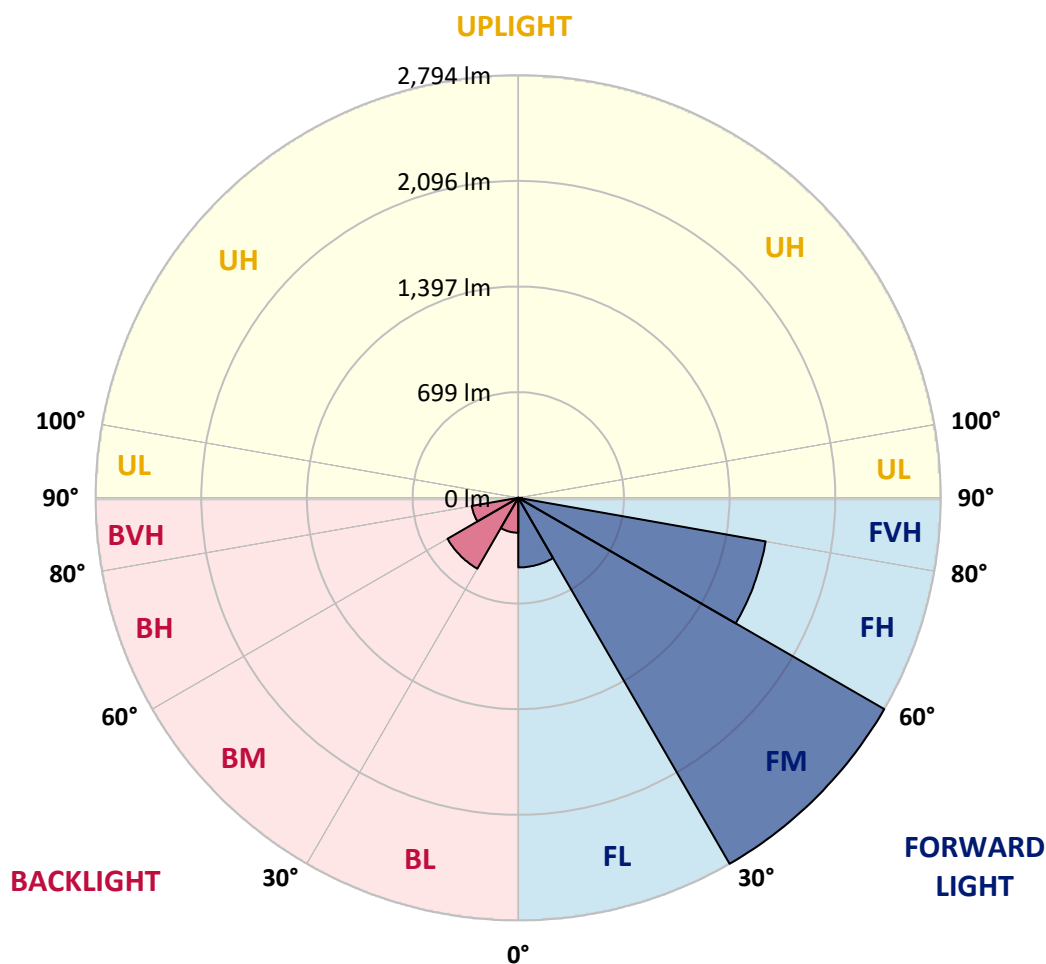
CATALOG NUMBER: NAV-SB2A-830-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	460.3	7.6			
FM	(30°-60°)	2794.3	46.3			
FH	(60°-80°)	1661.0	27.5			G1/1800
FVH	(80°-90°)	24.7	0.4			G1/100
BL	(0°-30°)	230.8	3.8	B1/500		
BM	(30°-60°)	540.8	9.0	B1/1000		
BH	(60°-80°)	311.9	5.2	B1/500		G1/500
BVH	(80°-90°)	9.3	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



REPORT NUMBER: P961560

CATALOG NUMBER: NAV-SB2A-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	999.5	999.5	999.5	999.5	999.5	999.5	999.5	999.5	999.5	999.5	999.5
2.5°	1056.4	1062.5	1059.0	1057.3	1054.2	1049.9	1046.4	1035.6	1024.3	1016.9	1014.2
5°	1077.7	1083.7	1083.3	1085.1	1087.2	1088.6	1087.6	1075.5	1059.4	1046.8	1039.5
7.5°	1059.4	1066.4	1072.0	1080.8	1095.9	1112.0	1119.8	1117.2	1100.7	1083.3	1074.2
10°	1007.8	1015.2	1028.6	1049.0	1081.2	1115.9	1145.0	1158.5	1148.0	1128.9	1116.3
12.5°	913.1	920.4	946.9	991.3	1045.1	1105.5	1161.1	1197.1	1199.8	1180.6	1165.8
15°	806.7	814.1	842.2	897.8	979.9	1076.8	1169.7	1238.0	1261.0	1244.5	1226.6
17.5°	740.6	747.1	768.4	813.1	898.7	1019.5	1166.8	1281.4	1333.9	1320.9	1299.6
20°	720.6	726.3	736.3	767.5	838.8	959.9	1146.8	1322.2	1412.6	1405.2	1381.3
22.5°	741.9	747.1	750.2	764.0	808.8	920.9	1121.6	1364.0	1503.8	1504.7	1475.6
25°	791.0	796.2	792.7	801.4	820.9	908.7	1112.0	1413.0	1618.5	1628.0	1595.0
27.5°	871.8	872.2	864.0	863.6	866.5	926.9	1122.0	1465.5	1763.1	1780.9	1740.1
30°	1033.8	1027.3	995.6	961.2	945.7	981.6	1149.7	1527.7	1933.9	1965.5	1914.3
32.5°	1283.6	1274.0	1215.9	1133.8	1051.1	1069.9	1199.8	1598.5	2119.7	2177.1	2114.5
35°	1554.6	1552.1	1491.2	1369.1	1225.0	1195.4	1280.9	1691.5	2322.5	2413.8	2339.6
37.5°	1806.6	1805.2	1770.5	1626.7	1451.2	1370.4	1411.3	1813.0	2539.7	2671.9	2584.0
40°	2036.8	2040.7	2005.9	1877.4	1700.6	1595.0	1588.5	1963.4	2781.2	2952.8	2848.6
42.5°	2235.7	2240.0	2204.9	2109.8	1946.9	1843.5	1806.2	2147.6	3017.2	3254.8	3131.4
45°	2370.8	2397.7	2392.6	2316.5	2199.6	2092.3	2067.6	2378.6	3286.0	3574.9	3430.3
47.5°	2409.1	2433.8	2472.9	2483.3	2412.0	2306.6	2336.1	2657.0	3558.0	3895.4	3730.8
50°	2314.8	2337.8	2419.0	2527.1	2576.6	2544.2	2597.1	2955.5	3836.4	4215.1	4025.8
52.5°	2128.8	2152.3	2254.8	2426.0	2628.0	2730.5	2859.0	3249.6	4106.2	4517.9	4305.1
55°	1860.0	1884.8	2016.4	2210.1	2530.2	2807.4	3077.6	3543.1	4353.3	4790.2	4556.9
57.5°	1494.2	1512.5	1649.3	1920.3	2284.3	2730.9	3238.7	3863.7	4586.1	5057.9	4806.7
60°	973.9	989.9	1148.9	1451.2	1876.9	2475.5	3270.8	4221.3	4895.4	5405.7	5143.3
62.5°	647.7	658.5	752.8	974.8	1321.8	1985.1	3082.7	4506.6	5348.9	6011.3	5720.6
65°	444.3	455.2	549.5	704.1	853.9	1313.1	2541.9	4468.8	5759.8	6492.1	6148.6
67.5°	317.1	326.3	406.1	552.1	618.1	762.8	1723.1	3985.8	5700.7	6510.4	6171.5
70°	227.1	232.4	298.4	430.0	491.3	458.3	958.3	3048.5	4991.3	6011.7	5701.6
72.5°	159.0	160.7	207.2	327.5	395.8	334.5	456.1	2032.5	3775.1	4718.6	4420.2
75°	107.7	109.9	139.4	240.2	317.5	255.4	241.5	1089.9	2216.2	2611.9	2341.3
77.5°	66.0	66.9	89.9	164.2	237.6	194.6	155.5	461.8	857.4	841.8	717.6
80°	37.3	37.3	57.3	102.1	162.1	125.6	109.1	196.3	271.5	238.5	210.2
82.5°	20.8	21.3	41.7	63.4	107.3	74.3	60.0	90.8	117.3	103.8	90.3
85°	8.7	9.5	25.6	29.9	51.2	36.9	24.3	38.2	43.5	38.6	28.2
87.5°	0.8	1.3	7.8	5.6	6.0	7.4	3.5	7.4	6.0	6.0	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P961560

CATALOG NUMBER: NAV-SB2A-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	999.5	999.5	999.5	999.5	999.5	999.5	999.5	999.5	999.5	999.5	999.5
2.5°	1006.0	999.5	983.0	963.9	938.7	926.5	910.0	898.7	889.2	890.0	881.3
5°	1025.5	1009.0	972.1	926.1	868.8	827.9	784.4	754.5	730.2	725.0	713.2
7.5°	1052.5	1026.4	961.7	878.7	781.9	708.5	642.9	600.8	570.7	561.2	551.7
10°	1087.2	1049.4	948.2	819.2	679.8	586.4	516.0	483.0	462.6	455.6	450.5
12.5°	1127.6	1075.9	930.4	746.7	574.7	484.7	440.0	423.5	417.0	414.8	413.5
15°	1178.4	1108.9	903.5	660.7	485.6	422.6	403.5	401.4	402.2	401.4	400.9
17.5°	1238.8	1145.0	859.7	572.1	425.7	390.9	384.0	385.7	387.9	387.4	386.6
20°	1304.8	1180.6	803.6	493.4	384.9	368.4	364.4	366.1	367.9	367.1	366.6
22.5°	1380.0	1218.8	741.5	432.2	357.5	347.5	343.2	343.6	343.6	341.8	341.0
25°	1470.0	1261.0	676.3	388.8	336.6	328.8	323.6	321.8	319.3	314.1	313.1
27.5°	1577.2	1305.7	613.8	358.3	320.1	312.7	306.7	302.3	295.8	287.1	286.3
30°	1697.9	1360.0	560.8	339.3	307.1	299.7	292.7	286.3	276.6	265.9	265.0
32.5°	1840.0	1418.2	522.1	326.7	295.4	287.5	279.3	271.5	261.1	250.2	250.6
35°	2009.4	1488.6	499.5	318.0	286.3	275.8	266.7	258.0	250.2	240.7	239.7
37.5°	2193.2	1563.3	492.6	313.6	280.1	264.1	253.7	247.6	246.7	241.1	240.7
40°	2394.3	1651.9	497.7	311.0	273.7	252.8	241.5	240.2	242.4	232.4	232.8
42.5°	2607.1	1757.1	506.5	308.0	264.6	241.5	230.6	230.6	228.9	215.0	215.0
45°	2837.3	1878.2	515.2	300.6	253.7	230.2	222.0	218.9	211.6	198.0	197.6
47.5°	3069.3	2001.6	521.7	287.1	240.7	220.7	213.3	206.3	195.5	183.3	182.9
50°	3289.5	2112.3	514.8	267.1	225.9	211.6	203.8	194.1	182.4	174.1	172.9
52.5°	3486.2	2208.4	485.2	243.6	210.2	202.0	195.1	185.0	175.5	166.8	165.9
55°	3657.4	2286.1	433.1	221.5	196.3	193.7	186.8	174.1	161.1	153.8	152.9
57.5°	3821.6	2345.2	367.9	203.3	183.8	184.6	174.1	162.9	150.8	142.9	142.1
60°	4040.1	2424.2	301.9	186.3	170.3	172.9	161.5	153.3	138.2	128.1	126.8
62.5°	4389.4	2547.1	239.7	165.5	154.7	155.5	150.8	140.7	122.5	110.8	109.9
65°	4666.4	2502.0	188.9	142.9	136.8	138.2	138.2	127.3	107.7	94.3	93.0
67.5°	4635.2	2142.4	150.8	120.7	119.9	120.7	123.8	114.7	95.5	84.7	82.9
70°	4269.8	1704.1	120.7	100.3	104.2	102.1	110.8	104.7	86.0	75.1	73.8
72.5°	3484.1	1227.5	92.0	82.9	79.9	83.4	99.9	94.3	71.6	59.6	58.2
75°	2035.9	655.1	68.7	65.6	57.8	69.5	88.7	80.4	54.7	43.9	42.5
77.5°	662.9	228.5	50.4	48.2	43.0	56.1	75.5	67.8	44.7	34.7	33.4
80°	177.6	69.1	34.3	31.7	27.8	41.7	60.0	53.8	32.2	22.5	22.1
82.5°	71.2	29.1	20.0	17.8	15.2	28.7	47.4	43.5	23.9	14.3	14.3
85°	23.1	9.5	7.4	5.6	7.0	17.8	28.2	29.5	16.9	7.4	5.6
87.5°	3.1	1.3	1.3	1.7	1.3	3.1	8.7	8.3	4.8	0.8	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)