

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: P960320

Luminaire Tested: **NAV-SB1C-730-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960320
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-SB1C-730-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH
HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5607.8 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

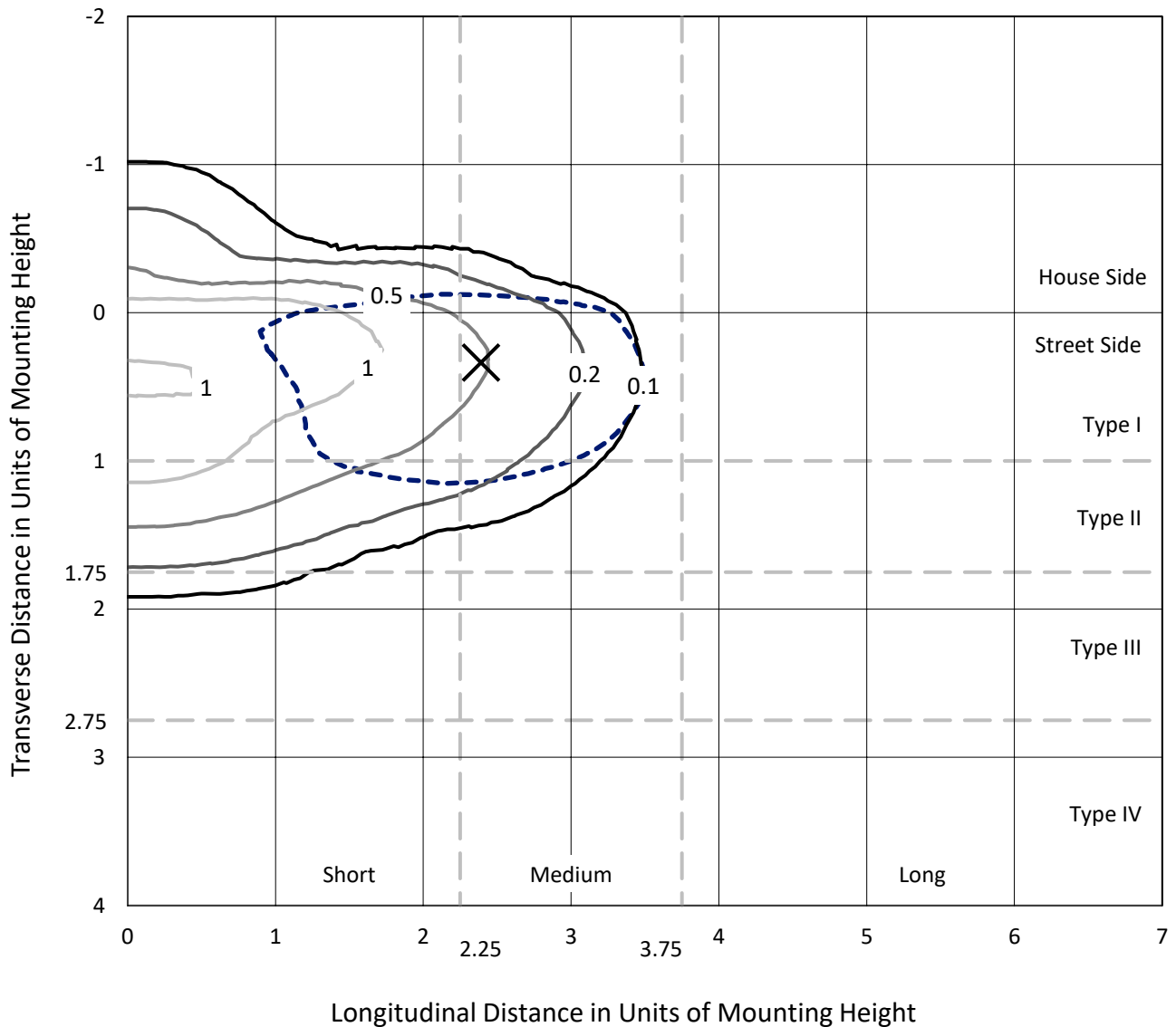
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

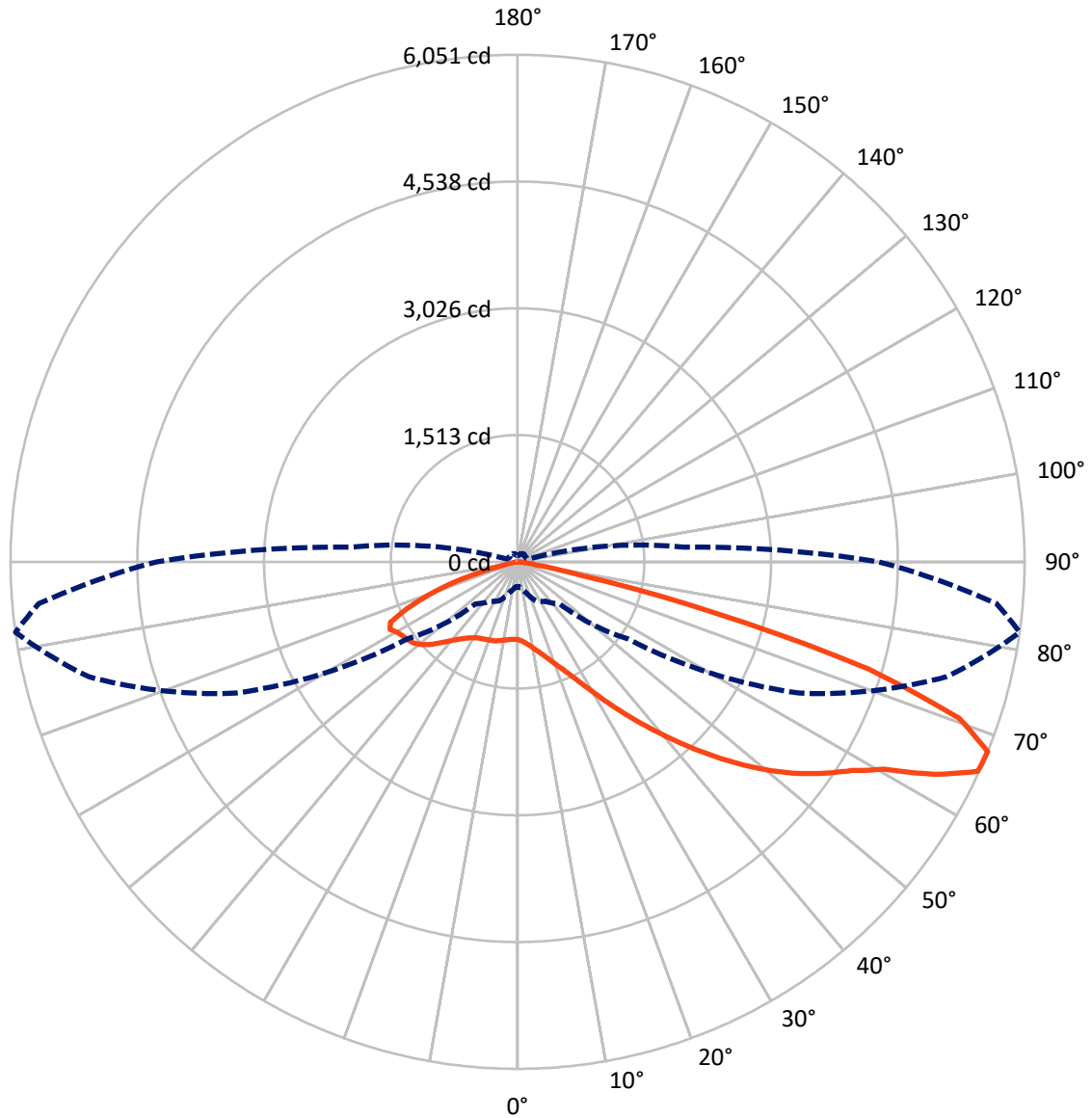
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1015.8	0.0	1015.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4592.0	0.0	4592.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	5607.8	0.0	5607.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	1.5
10°-20°	215.1	3.8
20°-30°	344.5	6.1
30°-40°	609.2	10.9
40°-50°	1067.3	19.0
50°-60°	1423.5	25.4
60°-70°	1325.2	23.6
70°-80°	508.6	9.1
80°-90°	31.6	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°	5607.8	100.0
0°-180°	5607.8	100.0

Coefficient of Utilization



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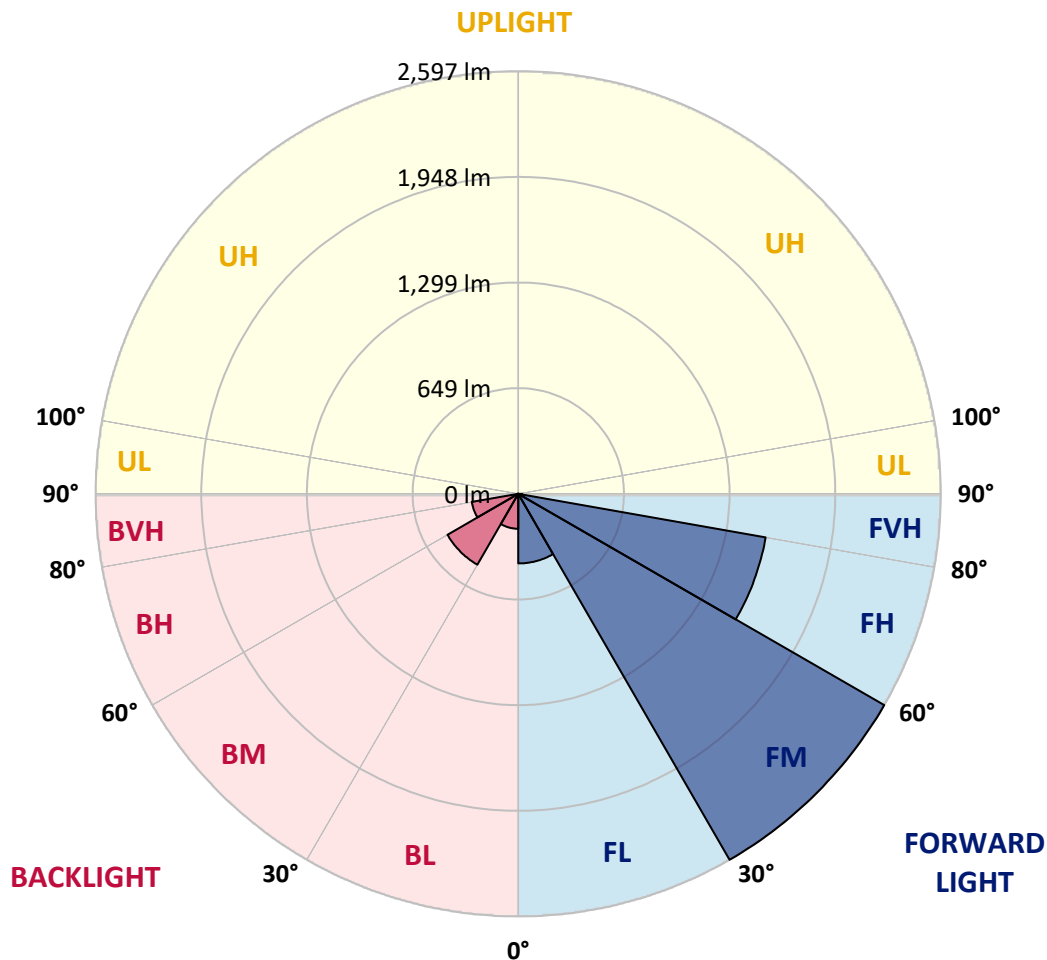
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	427.8	7.6			
FM (30°-60°)	2597.3	46.3			
FH (60°-80°)	1543.9	27.5			G1/1800
FVH (80°-90°)	23.0	0.4			G1/100
BL (0°-30°)	214.5	3.8	B1/500		
BM (30°-60°)	502.7	9.0	B1/1000		
BH (60°-80°)	289.9	5.2	B1/500		G1/500
BVH (80°-90°)	8.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	929.1	929.1	929.1	929.1	929.1	929.1	929.1	929.1	929.1	929.1	929.1
2.5°	982.0	987.6	984.3	982.7	979.9	975.9	972.6	962.6	952.0	945.2	942.8
5°	1001.7	1007.4	1007.0	1008.6	1010.5	1011.8	1011.0	999.7	984.7	973.0	966.2
7.5°	984.7	991.2	996.4	1004.5	1018.6	1033.6	1040.9	1038.4	1023.1	1007.0	998.5
10°	936.6	943.5	956.1	975.1	1004.9	1037.2	1064.3	1076.8	1067.1	1049.3	1037.6
12.5°	848.7	855.6	880.2	921.4	971.4	1027.6	1079.2	1112.7	1115.1	1097.4	1083.6
15°	749.8	756.7	782.9	834.6	910.8	1000.9	1087.3	1150.7	1172.1	1156.7	1140.2
17.5°	688.4	694.4	714.2	755.8	835.4	947.6	1084.4	1191.0	1239.9	1227.7	1208.0
20°	669.8	675.1	684.4	713.4	779.6	892.3	1065.9	1229.0	1313.0	1306.2	1283.9
22.5°	689.6	694.4	697.3	710.2	751.7	856.0	1042.4	1267.7	1397.8	1398.6	1371.6
25°	735.2	740.0	736.9	744.9	763.1	844.6	1033.6	1313.4	1504.4	1513.2	1482.6
27.5°	810.4	810.7	803.1	802.7	805.4	861.6	1042.8	1362.2	1638.8	1655.4	1617.4
30°	960.9	954.9	925.4	893.5	878.9	912.5	1068.7	1419.9	1797.4	1827.0	1779.3
32.5°	1193.1	1184.2	1130.1	1053.8	977.0	994.5	1115.1	1485.7	1970.3	2023.6	1965.4
35°	1445.0	1442.6	1386.1	1272.6	1138.6	1111.1	1190.6	1572.1	2158.9	2243.6	2174.5
37.5°	1679.2	1677.9	1645.6	1512.0	1348.9	1273.8	1311.8	1685.2	2360.7	2483.5	2401.9
40°	1893.2	1896.8	1864.5	1745.0	1580.7	1482.6	1476.5	1824.9	2585.2	2744.6	2647.8
42.5°	2078.1	2082.1	2049.4	1961.0	1809.6	1713.5	1678.7	1996.1	2804.4	3025.3	2910.6
45°	2203.6	2228.7	2223.8	2153.2	2044.6	1944.8	1921.9	2210.9	3054.3	3322.8	3188.4
47.5°	2239.2	2262.2	2298.6	2308.2	2242.0	2143.9	2171.4	2469.7	3307.1	3620.8	3467.8
50°	2151.6	2173.0	2248.4	2349.0	2395.0	2364.8	2414.0	2747.1	3565.9	3918.0	3741.9
52.5°	1978.8	2000.6	2095.8	2254.9	2442.7	2537.9	2657.4	3020.5	3816.6	4199.3	4001.5
55°	1728.9	1751.8	1874.2	2054.3	2351.9	2609.4	2860.6	3293.3	4046.3	4452.5	4235.7
57.5°	1388.9	1405.9	1533.0	1784.9	2123.3	2538.3	3010.3	3591.3	4262.8	4701.2	4467.9
60°	905.2	920.1	1067.9	1348.9	1744.6	2300.9	3040.3	3923.6	4550.2	5024.7	4780.7
62.5°	602.0	612.0	699.7	906.0	1228.6	1845.1	2865.4	4188.9	4971.8	5587.5	5317.3
65°	413.1	423.1	510.8	654.5	793.8	1220.6	2362.7	4153.7	5353.7	6034.4	5715.0
67.5°	294.7	303.2	377.5	513.1	574.5	709.0	1601.7	3704.8	5298.7	6051.3	5736.4
70°	211.2	216.0	277.4	399.7	456.6	426.0	890.6	2833.5	4639.5	5587.8	5299.6
72.5°	147.8	149.3	192.6	304.4	367.8	310.9	423.9	1889.1	3509.0	4385.9	4108.5
75°	100.1	102.2	129.6	223.2	295.1	237.4	224.5	1013.0	2059.9	2427.7	2176.2
77.5°	61.4	62.2	83.5	152.6	220.9	180.9	144.5	429.2	797.0	782.5	667.0
80°	34.7	34.7	53.3	94.9	150.6	116.6	101.4	182.4	252.4	221.7	195.4
82.5°	19.4	19.8	38.7	58.9	99.7	69.1	55.8	84.4	109.1	96.5	83.9
85°	8.1	8.9	23.8	27.9	47.7	34.3	22.7	35.6	40.4	36.0	26.2
87.5°	0.8	1.2	7.3	5.2	5.6	6.9	3.3	6.9	5.6	5.6	4.0
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°	929.1	929.1	929.1	929.1	929.1	929.1	929.1	929.1	929.1	929.1	929.1
2.5°	935.1	929.1	913.7	896.0	872.5	861.2	845.8	835.4	826.5	827.3	819.2
5°	953.2	937.9	903.5	860.8	807.5	769.6	729.2	701.3	678.7	673.8	663.0
7.5°	978.3	954.1	893.9	816.8	726.7	658.5	597.6	558.4	530.5	521.6	512.8
10°	1010.5	975.5	881.4	761.5	631.9	545.1	479.7	449.0	430.0	423.5	418.7
12.5°	1048.2	1000.1	864.8	694.0	534.1	450.6	409.0	393.7	387.6	385.6	384.4
15°	1095.3	1030.7	839.8	614.1	451.4	392.9	375.0	373.1	373.8	373.1	372.7
17.5°	1151.5	1064.3	799.0	531.8	395.6	363.4	356.9	358.5	360.6	360.2	359.4
20°	1212.9	1097.4	746.9	458.7	357.7	342.3	338.8	340.4	341.9	341.1	340.8
22.5°	1282.7	1132.9	689.2	401.7	332.3	323.0	319.0	319.4	319.4	317.8	316.9
25°	1366.3	1172.1	628.6	361.3	312.9	305.7	300.8	299.2	296.7	291.9	291.1
27.5°	1466.0	1213.7	570.5	333.1	297.6	290.7	285.1	281.1	274.9	266.9	266.1
30°	1578.2	1264.1	521.2	315.3	285.5	278.6	272.1	266.1	257.2	247.1	246.3
32.5°	1710.3	1318.3	485.3	303.6	274.6	267.3	259.6	252.4	242.6	232.6	233.0
35°	1867.8	1383.6	464.3	295.5	266.1	256.4	247.9	239.8	232.6	223.7	222.8
37.5°	2038.5	1453.0	457.9	291.5	260.5	245.5	235.7	230.1	229.3	224.1	223.7
40°	2225.5	1535.4	462.7	289.0	254.4	234.9	224.5	223.2	225.3	216.0	216.4
42.5°	2423.3	1633.1	470.8	286.3	245.9	224.5	214.4	214.4	212.8	199.9	199.9
45°	2637.2	1745.8	478.9	279.4	235.7	214.0	206.3	203.5	196.6	184.1	183.7
47.5°	2852.9	1860.5	484.9	266.9	223.7	205.1	198.2	191.8	181.7	170.4	169.9
50°	3057.6	1963.4	478.5	248.3	209.9	196.6	189.3	180.5	169.5	162.0	160.7
52.5°	3240.4	2052.7	451.0	226.5	195.4	187.8	181.3	172.0	163.1	155.1	154.3
55°	3399.5	2124.9	402.5	205.9	182.4	180.1	173.6	162.0	149.8	142.9	142.2
57.5°	3552.1	2179.9	341.9	188.9	170.8	171.6	162.0	151.4	140.1	132.8	132.0
60°	3755.2	2253.3	280.6	173.2	158.3	160.7	150.2	142.5	128.4	119.1	117.9
62.5°	4079.8	2367.5	222.8	153.9	143.7	144.5	140.1	130.8	113.9	102.9	102.2
65°	4337.4	2325.6	175.6	132.8	127.2	128.4	128.4	118.3	100.1	87.6	86.4
67.5°	4308.4	1991.3	140.1	112.2	111.4	112.2	115.1	106.6	88.9	78.7	77.1
70°	3968.8	1583.9	112.2	93.3	96.9	94.9	102.9	97.3	79.9	69.8	68.7
72.5°	3238.5	1141.0	85.6	77.1	74.3	77.5	92.9	87.6	66.6	55.4	54.1
75°	1892.4	608.8	63.8	61.0	53.7	64.6	82.4	74.7	50.8	40.8	39.6
77.5°	616.1	212.4	46.8	44.8	40.0	52.1	70.2	62.9	41.6	32.3	31.1
80°	165.1	64.2	31.9	29.5	25.8	38.7	55.8	50.0	29.8	21.0	20.6
82.5°	66.2	27.1	18.6	16.5	14.1	26.6	44.0	40.4	22.2	13.3	13.3
85°	21.4	8.9	6.9	5.2	6.5	16.5	26.2	27.5	15.8	6.9	5.2
87.5°	2.9	1.2	1.2	1.6	1.2	2.9	8.1	7.7	4.4	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)