

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: P960364

Luminaire Tested: **NAV-SB1C-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-735-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7663.9 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

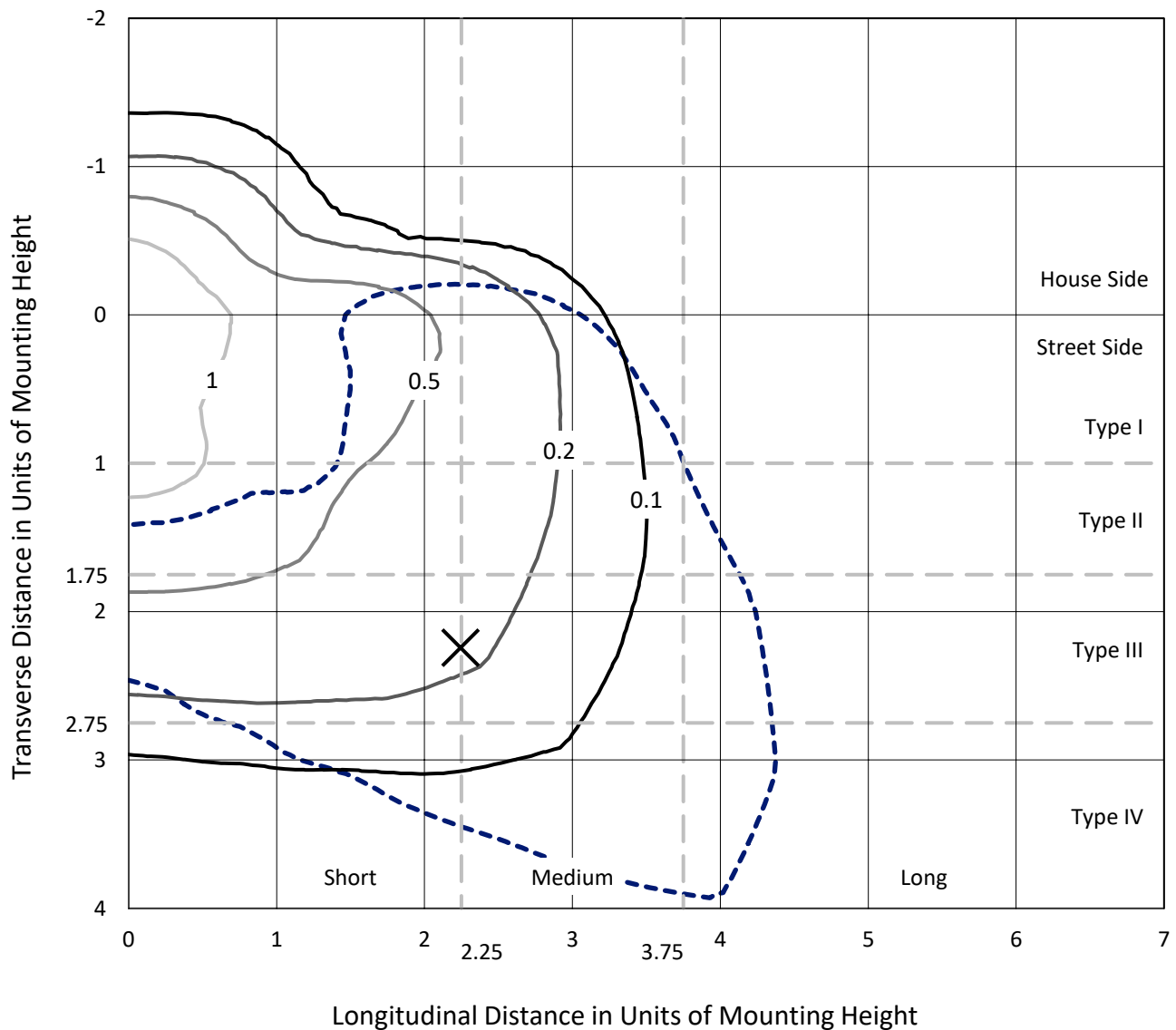


REPORT NUMBER: P960364

CATALOG NUMBER: NAV-SB1C-735-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

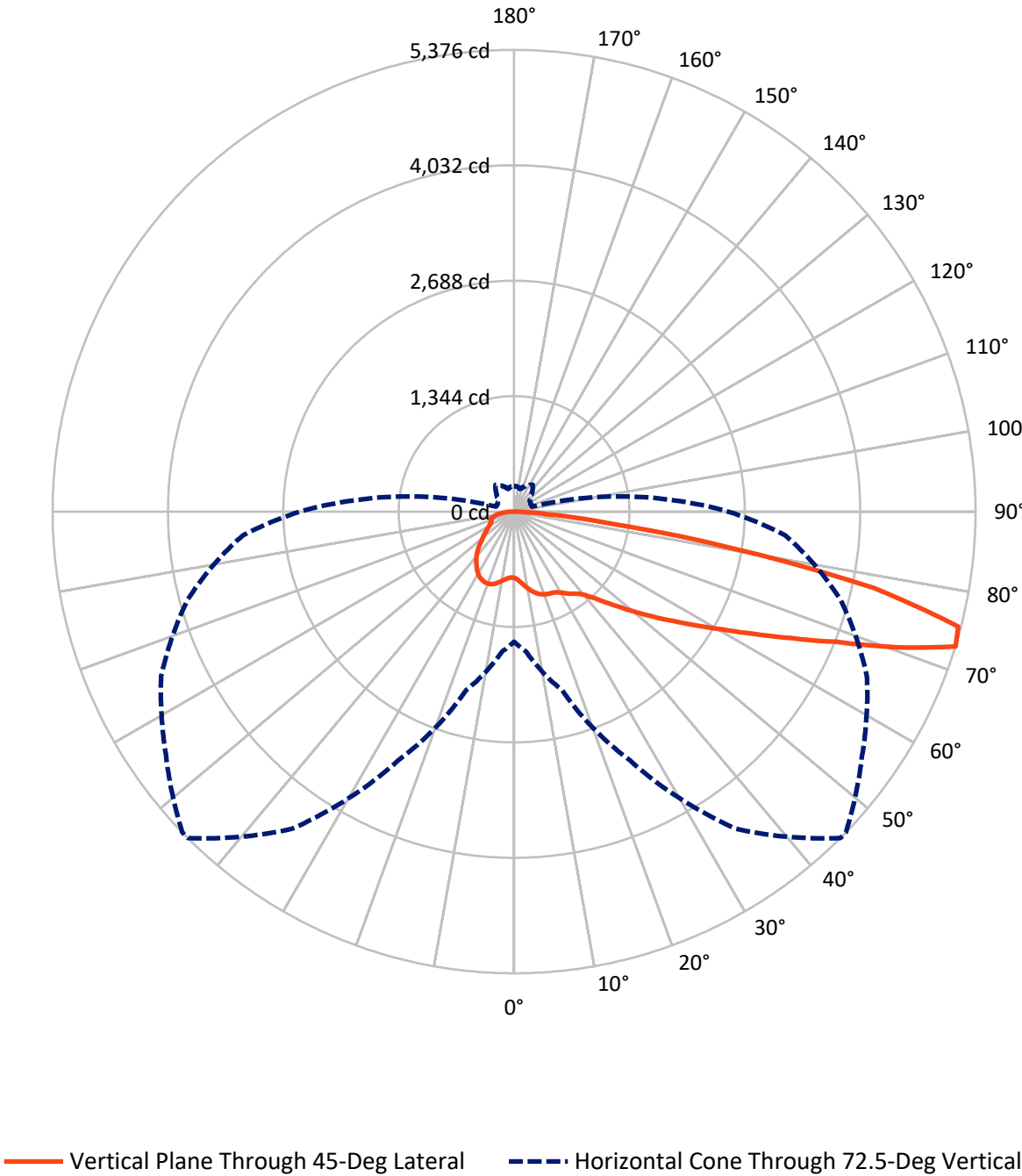


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc

Type IV - Short - N/A

REPORT NUMBER: P960364
CATALOG NUMBER: NAV-SB1C-735-U-T4W

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1732.5	0.0	1732.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5931.4	0.0	5931.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	7663.9	0.0	7663.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	1.0
10°-20°	262.4	3.4
20°-30°	456.4	6.0
30°-40°	654.3	8.5
40°-50°	921.3	12.0
50°-60°	1411.1	18.4
60°-70°	2044.2	26.7
70°-80°	1632.4	21.3
80°-90°	203.3	2.7
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°	7663.9	100.0
0°-180°	7663.9	100.0

Coefficient of Utilization



REPORT NUMBER: P960364

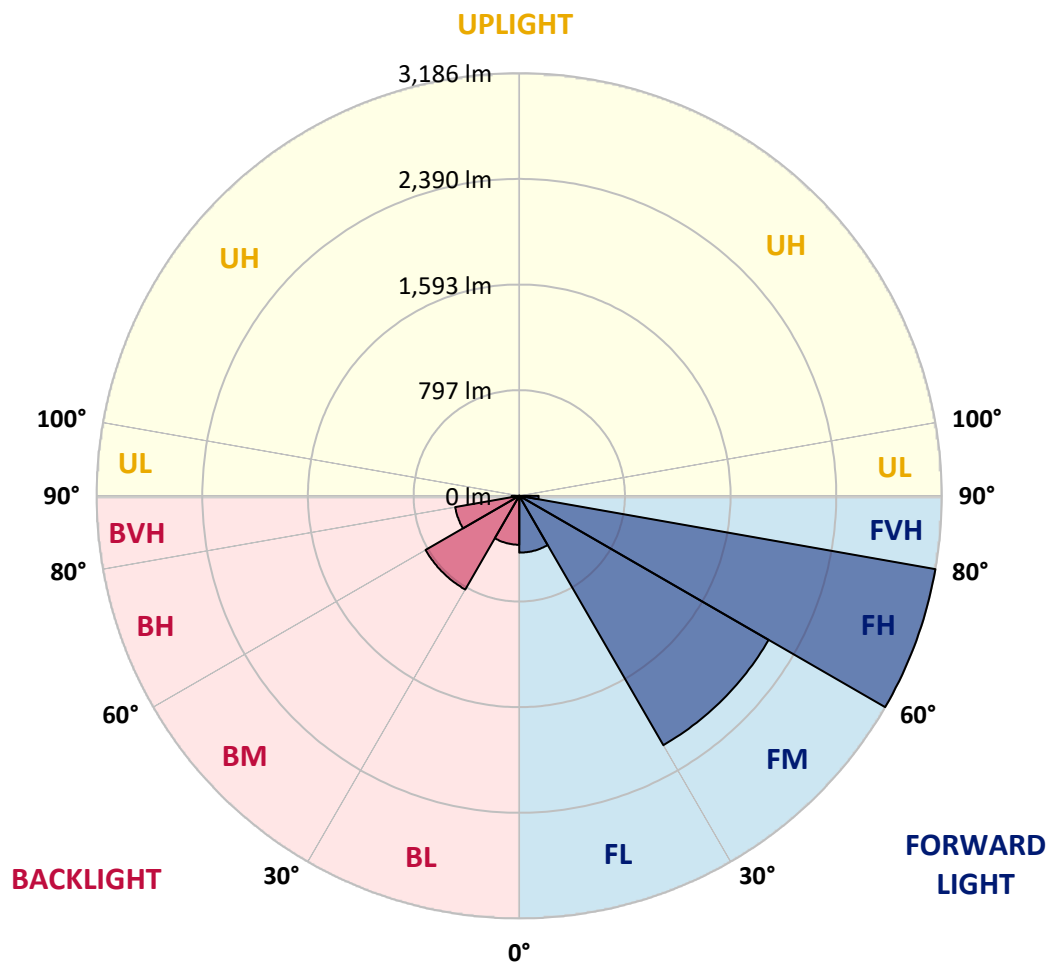
CATALOG NUMBER: NAV-SB1C-735-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	428.6	5.6			
FM	(30°-60°)	2170.8	28.3			
FH	(60°-80°)	3186.1	41.6			G2/5000
FVH	(80°-90°)	145.9	1.9			G2/225
BL	(0°-30°)	368.9	4.8	B1/500		
BM	(30°-60°)	815.8	10.6	B1/1000		
BH	(60°-80°)	490.4	6.4	B1/500		G1/500
BVH	(80°-90°)	57.5	0.7			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 IV Short



REPORT NUMBER: P960364

CATALOG NUMBER: NAV-SB1C-735-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	773.2	773.2	773.2	773.2	773.2	773.2	773.2	773.2	773.2	773.2	773.2
2.5°	803.4	808.6	803.8	799.4	797.3	792.1	791.7	788.5	786.5	780.8	779.2
5°	859.6	866.4	858.3	849.4	841.3	828.4	826.9	817.5	807.1	795.0	788.1
7.5°	922.9	929.0	919.7	906.4	892.3	870.8	870.4	853.5	836.9	816.3	804.6
10°	978.3	986.4	973.7	955.6	937.9	913.7	910.8	891.4	870.4	843.8	826.0
12.5°	1027.0	1032.7	1020.6	998.5	977.8	953.6	950.0	928.5	905.2	874.8	852.3
15°	1065.8	1073.1	1057.0	1033.1	1011.4	987.5	984.3	964.9	941.5	909.6	880.6
17.5°	1091.3	1097.4	1080.8	1054.1	1033.1	1013.3	1011.0	994.8	974.2	941.9	910.8
20°	1101.0	1107.4	1090.1	1063.0	1043.7	1028.3	1027.0	1015.4	1001.2	971.8	940.3
22.5°	1110.7	1116.7	1094.1	1065.8	1048.9	1039.2	1038.8	1031.1	1025.5	1001.2	970.6
25°	1149.8	1151.5	1121.1	1080.4	1056.2	1047.7	1047.2	1046.8	1049.3	1030.3	1003.3
27.5°	1183.8	1183.4	1157.5	1119.1	1081.6	1063.8	1063.4	1067.4	1075.1	1059.3	1037.2
30°	1233.4	1229.0	1198.2	1158.2	1124.0	1096.5	1094.1	1090.5	1096.5	1084.0	1071.1
32.5°	1338.8	1324.6	1275.0	1204.0	1159.1	1138.2	1134.9	1112.2	1114.7	1107.0	1100.5
35°	1489.7	1471.2	1405.0	1290.3	1202.7	1172.8	1171.3	1142.6	1137.8	1130.9	1133.2
37.5°	1669.4	1646.5	1569.3	1415.4	1277.8	1213.2	1210.8	1184.9	1165.1	1157.9	1171.6
40°	1849.9	1820.8	1757.1	1568.0	1388.5	1280.6	1272.9	1233.8	1211.1	1199.0	1228.2
42.5°	2025.1	2000.9	1946.4	1739.2	1524.9	1379.1	1362.2	1295.2	1278.2	1266.9	1319.4
45°	2180.2	2158.3	2118.4	1922.2	1684.8	1513.2	1496.6	1387.2	1382.0	1382.0	1457.9
47.5°	2306.1	2301.2	2258.9	2108.6	1873.3	1665.8	1637.1	1515.2	1529.3	1551.1	1654.5
50°	2445.8	2432.4	2387.2	2292.4	2095.0	1840.6	1817.2	1672.3	1725.2	1784.9	1938.7
52.5°	2574.2	2581.5	2530.9	2483.8	2345.3	2035.6	1994.4	1857.6	1971.8	2070.7	2271.8
55°	2706.2	2706.6	2692.5	2686.0	2607.7	2251.2	2206.0	2080.4	2262.1	2384.9	2660.2
57.5°	2830.1	2830.9	2852.0	2908.8	2912.1	2499.9	2448.6	2354.1	2584.6	2709.8	3060.6
60°	2940.7	2946.4	3003.8	3137.0	3179.8	2784.9	2736.4	2677.5	2918.2	3044.1	3481.7
62.5°	2977.9	2998.5	3126.0	3315.5	3444.2	3134.6	3086.9	3051.8	3268.6	3385.7	3833.8
65°	2914.9	2962.1	3208.9	3462.8	3716.3	3550.0	3502.7	3464.4	3632.7	3743.0	4122.9
67.5°	2760.3	2821.2	3203.9	3617.4	4046.6	4049.8	4005.8	3915.8	4023.1	4065.6	4217.0
70°	2352.9	2444.2	2921.8	3675.1	4425.6	4733.3	4690.9	4459.2	4412.7	4207.6	3952.1
72.5°	1516.0	1638.8	2151.5	3199.9	4510.1	5376.4	5374.1	4949.7	4535.9	3931.5	3169.7
75°	553.1	628.2	999.7	2008.6	3785.7	5343.7	5359.5	4865.8	4140.7	3036.9	1974.7
77.5°	201.4	220.5	326.3	771.9	2328.3	4287.6	4320.3	3890.0	2947.2	1524.1	782.4
80°	105.8	116.2	167.2	299.6	997.6	2546.3	2597.6	2311.8	1385.2	459.0	234.5
82.5°	58.5	63.3	93.7	162.7	449.4	1088.9	1119.5	913.3	487.3	194.6	96.9
85°	31.5	33.5	44.0	88.9	219.7	377.5	386.0	273.0	194.2	114.3	46.8
87.5°	9.3	11.3	14.6	28.3	86.0	84.8	86.8	54.1	76.7	57.7	15.4
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: P960364

CATALOG NUMBER: NAV-SB1C-735-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	773.2	773.2	773.2	773.2	773.2	773.2	773.2	773.2	773.2	773.2	773.2
2.5°	776.7	775.5	771.1	769.1	766.7	766.3	768.3	768.7	769.1	769.5	771.1
5°	784.0	780.0	775.9	773.6	774.4	774.8	778.8	781.7	783.6	785.3	786.1
7.5°	798.2	795.0	788.1	787.7	788.8	792.5	797.8	804.2	807.9	810.7	811.5
10°	819.2	813.1	805.0	806.3	808.6	814.0	824.8	830.0	836.1	841.3	840.2
12.5°	840.6	835.3	826.0	826.9	830.9	840.2	850.6	857.1	861.2	865.2	866.8
15°	868.4	859.2	849.0	849.0	856.3	866.4	871.2	876.5	878.9	883.3	885.0
17.5°	897.1	885.0	871.7	870.8	879.8	884.6	887.4	888.2	889.0	893.9	895.4
20°	925.8	912.5	893.5	891.9	893.9	893.1	892.7	891.9	893.1	899.1	901.5
22.5°	954.0	938.7	912.5	905.2	899.5	891.9	891.4	891.0	891.9	897.9	901.9
25°	987.1	968.5	933.5	911.6	892.7	882.1	883.3	883.8	884.6	889.4	895.8
27.5°	1023.1	1002.4	952.8	909.6	875.2	868.0	866.0	867.3	870.0	877.7	885.4
30°	1059.0	1034.7	970.6	901.5	853.5	843.4	836.9	839.8	848.6	856.3	864.8
32.5°	1091.7	1067.4	984.7	883.8	825.6	809.9	801.4	805.0	814.0	816.7	826.9
35°	1130.1	1102.6	990.8	855.5	795.3	771.1	759.8	754.6	759.0	756.1	765.1
37.5°	1172.8	1144.2	989.9	818.4	759.8	732.0	716.2	696.4	687.2	677.4	683.5
40°	1236.3	1195.0	980.2	773.6	715.9	690.3	662.2	628.6	607.6	588.7	589.9
42.5°	1322.7	1265.7	962.5	724.3	666.1	642.4	603.9	564.8	531.7	500.2	497.4
45°	1451.4	1358.1	940.3	671.8	612.4	589.1	547.5	503.5	465.9	425.6	420.7
47.5°	1637.1	1482.5	919.3	612.0	556.0	534.5	497.0	456.2	411.8	372.7	368.2
50°	1892.3	1660.9	900.0	553.9	500.2	484.1	454.2	412.6	367.8	336.3	334.3
52.5°	2216.9	1903.6	891.9	497.8	448.1	442.1	418.3	379.5	337.1	310.5	308.4
55°	2589.6	2193.9	891.9	444.1	402.5	404.6	388.0	352.1	315.3	291.5	289.0
57.5°	2969.8	2487.8	875.7	394.4	363.8	372.3	361.7	330.3	297.1	272.5	268.4
60°	3320.3	2734.1	810.3	349.2	329.4	342.8	335.9	308.8	268.4	247.8	244.7
62.5°	3589.6	2873.0	684.3	313.3	301.1	316.5	312.9	280.5	263.2	254.7	251.9
65°	3724.4	2850.3	523.3	281.4	277.4	301.1	293.6	292.3	278.6	268.9	265.7
67.5°	3641.6	2655.8	379.5	258.0	263.6	287.1	316.5	321.3	295.9	277.0	273.8
70°	3278.7	2303.7	282.6	235.7	246.3	287.4	360.9	336.3	290.3	268.0	264.4
72.5°	2494.2	1717.9	219.2	212.4	223.7	289.5	380.7	329.4	274.1	296.3	293.9
75°	1426.4	943.1	176.0	183.7	195.4	270.5	370.6	311.7	261.6	272.1	272.1
77.5°	543.9	362.5	145.3	155.4	157.0	236.2	354.4	310.5	249.1	243.0	221.6
80°	188.5	141.8	120.3	123.5	121.6	209.9	339.9	270.1	203.9	182.4	176.4
82.5°	77.1	70.6	95.3	91.2	86.4	163.1	274.5	220.9	166.8	147.4	145.8
85°	33.5	44.8	62.9	55.4	50.0	113.1	220.1	187.0	140.9	121.6	121.2
87.5°	6.9	16.9	26.6	25.0	25.8	75.5	156.2	132.8	99.7	74.7	58.5
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)