

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: P960382

Luminaire Tested: **NAV-SB1C-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960382
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-740-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 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: 5932.7 lumens
Efficiency: N/A
Efficacy: 109.1 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



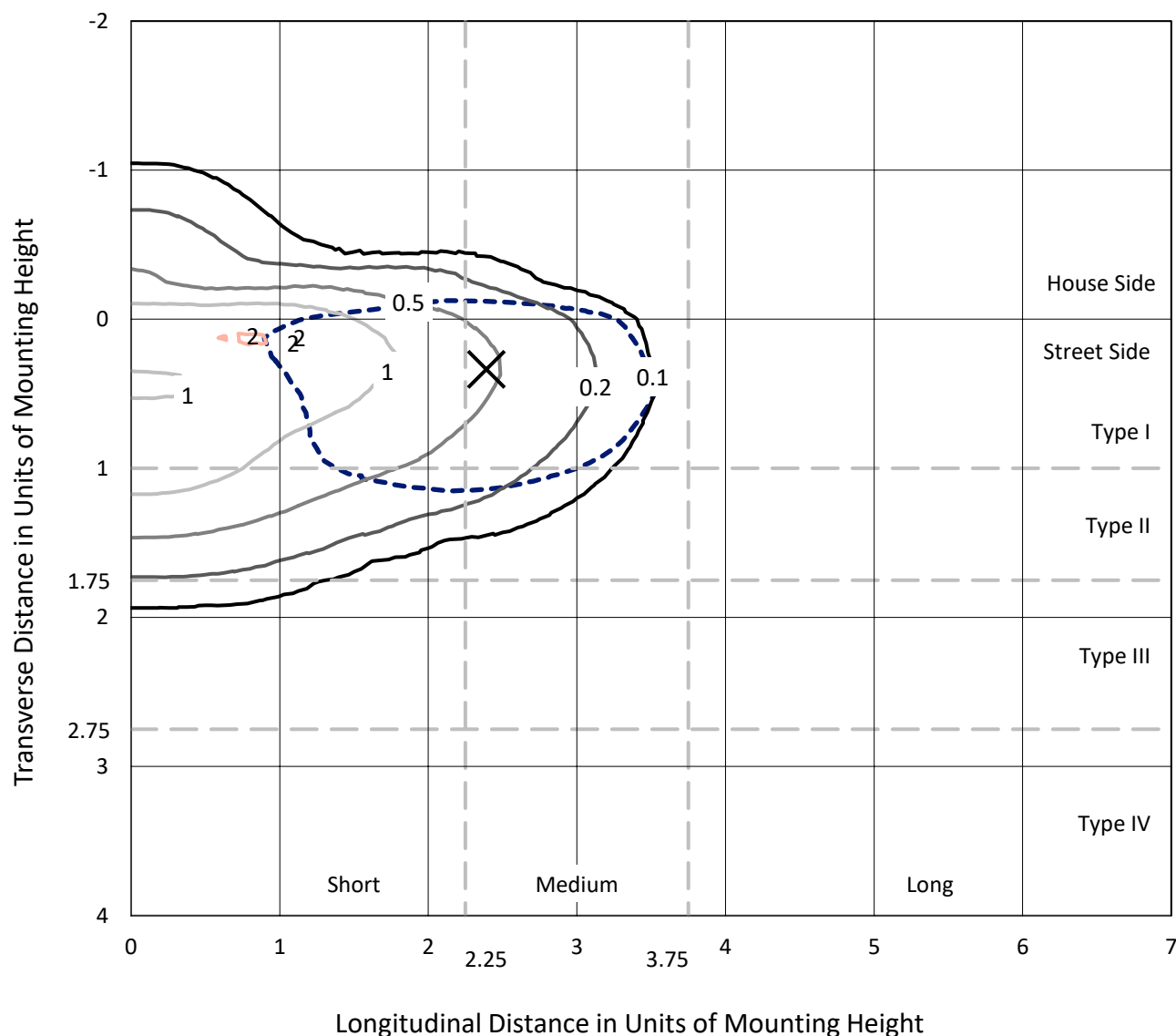
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

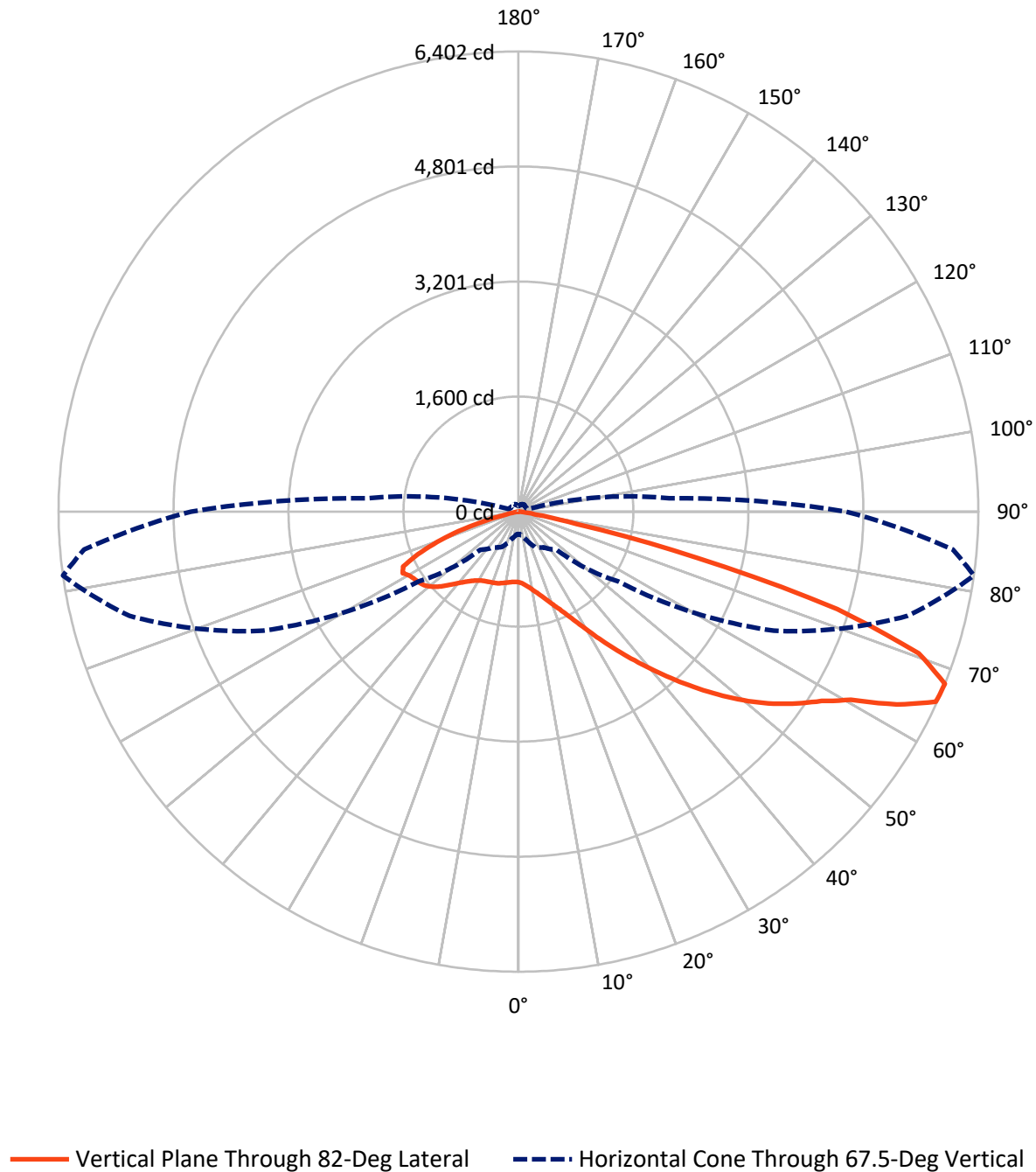
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1074.7	0.0	1074.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4858.0	0.0	4858.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	5932.7	0.0	5932.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	1.5
10°-20°	227.5	3.8
20°-30°	364.5	6.1
30°-40°	644.5	10.9
40°-50°	1129.2	19.0
50°-60°	1506.0	25.4
60°-70°	1402.0	23.6
70°-80°	538.1	9.1
80°-90°	33.4	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°	5932.7	100.0
0°-180°	5932.7	100.0

Coefficient of Utilization



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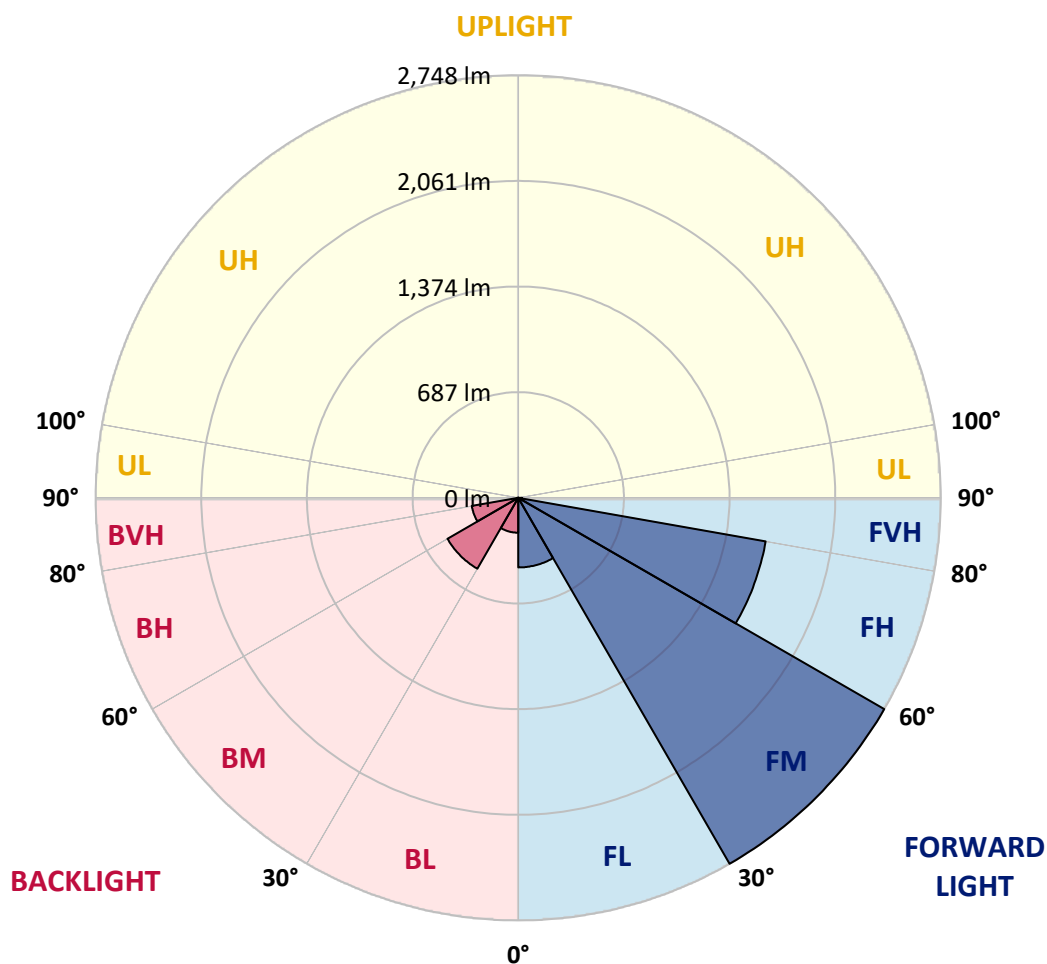
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	452.6	7.6			
FM	(30°-60°)	2747.8	46.3			
FH	(60°-80°)	1633.4	27.5			G1/1800
FVH	(80°-90°)	24.3	0.4			G1/100
BL	(0°-30°)	227.0	3.8	B1/500		
BM	(30°-60°)	531.8	9.0	B1/1000		
BH	(60°-80°)	306.7	5.2	B1/500		G1/500
BVH	(80°-90°)	9.1	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°	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9
2.5°	1038.8	1044.8	1041.4	1039.7	1036.7	1032.4	1029.0	1018.3	1007.2	999.9	997.3
5°	1059.7	1065.7	1065.3	1067.0	1069.2	1070.4	1069.6	1057.6	1041.8	1029.4	1022.1
7.5°	1041.8	1048.7	1054.2	1062.7	1077.7	1093.5	1101.2	1098.6	1082.4	1065.3	1056.4
10°	991.0	998.2	1011.5	1031.6	1063.1	1097.4	1126.0	1139.2	1128.9	1110.2	1097.8
12.5°	897.8	905.1	931.2	974.8	1027.7	1087.1	1141.7	1177.2	1179.8	1160.9	1146.5
15°	793.2	800.4	828.2	882.9	963.6	1058.9	1150.3	1217.4	1239.9	1223.7	1206.2
17.5°	728.3	734.7	755.6	799.6	883.8	1002.4	1147.3	1260.0	1311.8	1298.9	1278.0
20°	708.6	714.2	724.0	754.7	824.8	944.0	1127.6	1300.2	1389.1	1381.8	1358.3
22.5°	729.6	734.7	737.7	751.3	795.3	905.5	1102.9	1341.2	1478.8	1479.6	1451.0
25°	777.8	783.0	779.5	788.1	807.3	893.6	1093.5	1389.5	1591.5	1600.9	1568.5
27.5°	857.3	857.7	849.6	849.1	852.2	911.5	1103.3	1441.1	1733.8	1751.3	1711.1
30°	1016.6	1010.1	979.0	945.3	929.9	965.3	1130.7	1502.2	1901.6	1932.8	1882.4
32.5°	1262.2	1252.8	1195.6	1114.8	1033.7	1052.1	1179.8	1571.8	2084.4	2140.8	2079.3
35°	1528.7	1526.1	1466.4	1346.3	1204.6	1175.5	1259.6	1663.3	2283.9	2373.6	2300.6
37.5°	1776.4	1775.2	1741.1	1599.6	1427.1	1347.7	1387.7	1782.9	2497.5	2627.4	2541.1
40°	2002.8	2006.7	1972.5	1846.1	1672.3	1568.5	1562.0	1930.7	2735.0	2903.7	2801.2
42.5°	2198.5	2202.7	2168.2	2074.6	1914.4	1812.8	1776.0	2111.8	2966.9	3200.6	3079.2
45°	2331.4	2357.8	2352.7	2278.0	2163.1	2057.5	2033.2	2339.0	3231.3	3515.3	3373.1
47.5°	2368.9	2393.3	2431.7	2442.0	2372.0	2268.1	2297.1	2612.8	3498.7	3830.6	3668.7
50°	2276.2	2298.9	2378.7	2485.1	2533.8	2501.7	2553.9	2906.3	3772.5	4145.0	3958.8
52.5°	2093.5	2116.5	2217.3	2385.6	2584.2	2685.0	2811.5	3195.4	4037.8	4442.7	4233.4
55°	1829.0	1853.4	1982.8	2173.3	2488.1	2760.6	3026.3	3484.2	4280.8	4710.5	4481.1
57.5°	1469.3	1487.3	1621.9	1888.4	2246.3	2685.4	3184.8	3799.4	4509.7	4973.6	4726.7
60°	957.7	973.4	1129.8	1427.1	1845.7	2434.3	3216.3	4150.9	4813.8	5315.8	5057.8
62.5°	636.8	647.5	740.3	958.5	1299.8	1952.0	3031.4	4431.6	5259.8	5911.2	5625.4
65°	437.0	447.6	540.4	692.4	839.8	1291.2	2499.7	4394.4	5663.8	6384.0	6046.2
67.5°	311.8	320.8	399.3	542.9	607.8	750.1	1694.4	3919.4	5605.8	6401.9	6068.8
70°	223.3	228.5	293.5	422.9	483.1	450.6	942.3	2997.7	4908.2	5911.6	5606.6
72.5°	156.3	158.1	203.8	322.1	389.1	328.9	448.5	1998.5	3712.2	4640.0	4346.6
75°	105.9	108.0	137.1	236.2	312.2	251.1	237.5	1071.7	2179.3	2568.3	2302.3
77.5°	64.9	65.8	88.5	161.4	233.6	191.4	152.9	454.1	843.2	827.8	705.6
80°	36.7	36.7	56.4	100.3	159.3	123.4	107.2	193.1	267.0	234.5	206.7
82.5°	20.5	20.9	41.0	62.3	105.5	73.1	58.9	89.3	115.3	102.1	88.9
85°	8.5	9.4	25.2	29.5	50.4	36.3	23.9	37.6	42.7	38.0	27.8
87.5°	0.8	1.3	7.7	5.5	5.9	7.3	3.4	7.3	5.9	5.9	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9
2.5°	989.2	982.9	966.6	947.8	923.0	911.1	894.8	883.8	874.3	875.2	866.6
5°	1008.5	992.2	955.9	910.6	854.2	814.2	771.4	741.9	718.0	712.9	701.4
7.5°	1034.9	1009.3	945.7	864.1	768.9	696.7	632.1	590.7	561.3	551.9	542.4
10°	1069.2	1032.0	932.4	805.5	668.5	576.7	507.5	475.0	454.9	448.0	442.9
12.5°	1108.8	1058.0	914.9	734.2	565.1	476.7	432.7	416.5	410.1	408.0	406.6
15°	1158.9	1090.5	888.5	649.6	477.5	415.6	396.8	394.7	395.5	394.7	394.2
17.5°	1218.2	1126.0	845.3	562.5	418.6	384.4	377.6	379.2	381.4	381.0	380.2
20°	1283.1	1160.9	790.2	485.2	378.4	362.2	358.3	360.1	361.8	360.9	360.5
22.5°	1357.0	1198.5	729.1	425.0	351.6	341.7	337.4	337.8	337.8	336.2	335.3
25°	1445.5	1239.9	665.0	382.3	331.1	323.4	318.3	316.5	314.0	308.8	308.0
27.5°	1550.9	1284.0	603.5	352.4	314.8	307.5	301.6	297.2	290.9	282.4	281.5
30°	1669.7	1337.4	551.4	333.6	302.0	294.7	287.9	281.5	272.1	261.4	260.6
32.5°	1809.3	1394.6	513.4	321.2	290.5	282.8	274.7	267.0	256.7	246.0	246.4
35°	1976.0	1463.8	491.2	312.6	281.5	271.2	262.3	253.7	246.0	236.7	235.7
37.5°	2156.6	1537.3	484.4	308.4	275.5	259.7	249.5	243.4	242.6	237.1	236.7
40°	2354.4	1624.4	489.5	305.9	269.1	248.6	237.5	236.2	238.3	228.5	229.0
42.5°	2563.7	1727.7	498.0	302.9	260.1	237.5	226.8	226.8	225.1	211.5	211.5
45°	2790.0	1846.9	506.6	295.6	249.5	226.4	218.2	215.2	208.0	194.7	194.3
47.5°	3018.2	1968.3	513.0	282.4	236.7	217.0	209.7	202.8	192.2	180.3	179.8
50°	3234.7	2077.2	506.1	262.7	222.1	208.0	200.3	191.0	179.4	171.3	170.0
52.5°	3428.2	2171.6	477.1	239.6	206.7	198.6	191.8	181.9	172.6	164.0	163.2
55°	3596.5	2248.0	425.9	217.8	193.1	190.5	183.7	171.3	158.5	151.2	150.4
57.5°	3758.0	2306.1	361.8	199.9	180.7	181.5	171.3	160.2	148.2	140.5	139.7
60°	3972.8	2383.8	296.8	183.3	167.5	170.0	158.9	150.8	135.8	126.0	124.7
62.5°	4316.3	2504.8	235.7	162.8	152.1	152.9	148.2	138.4	120.4	109.0	108.0
65°	4588.7	2460.3	185.8	140.5	134.6	135.8	135.8	125.2	105.9	92.7	91.4
67.5°	4558.0	2106.7	148.2	118.7	117.9	118.7	121.8	112.7	94.0	83.3	81.6
70°	4198.8	1675.7	118.7	98.7	102.5	100.3	109.0	102.9	84.6	73.9	72.6
72.5°	3426.1	1207.1	90.5	81.6	78.6	82.0	98.2	92.7	70.5	58.5	57.2
75°	2002.0	644.1	67.4	64.5	56.8	68.4	87.1	79.0	53.8	43.2	41.8
77.5°	651.8	224.7	49.5	47.5	42.3	55.1	74.3	66.6	44.0	34.1	32.9
80°	174.7	68.0	33.7	31.2	27.4	41.0	58.9	53.0	31.6	22.2	21.8
82.5°	70.0	28.6	19.7	17.5	15.0	28.2	46.5	42.7	23.5	14.1	14.1
85°	22.7	9.4	7.3	5.5	6.9	17.5	27.8	29.0	16.7	7.3	5.5
87.5°	3.0	1.3	1.3	1.7	1.3	3.0	8.5	8.1	4.7	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)