

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: P960371

Luminaire Tested: **NAV-SB1C-740-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-740-U-SL2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6584.6 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
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

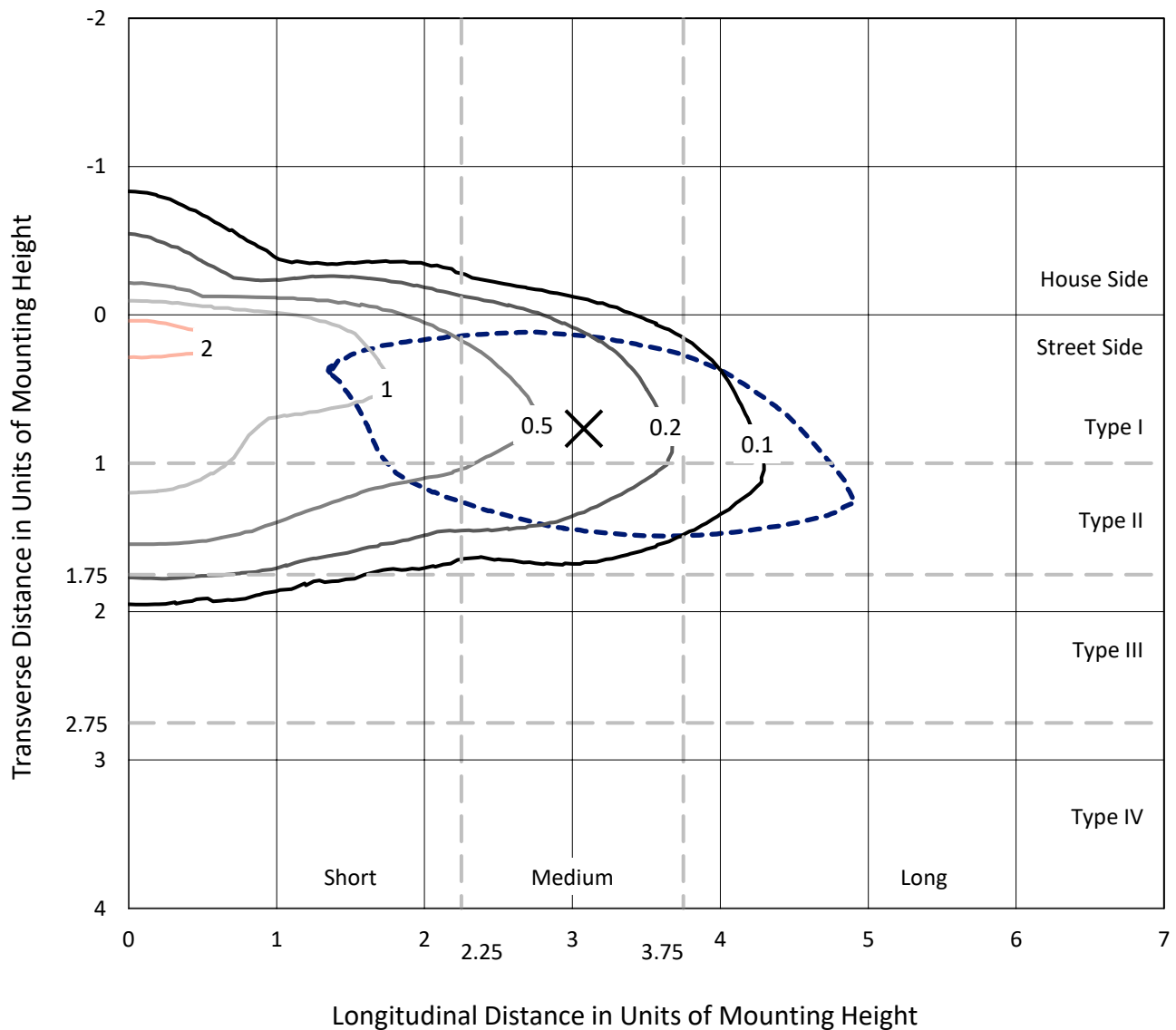


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Iso-Footcandle Lines of Horizontal Illumination

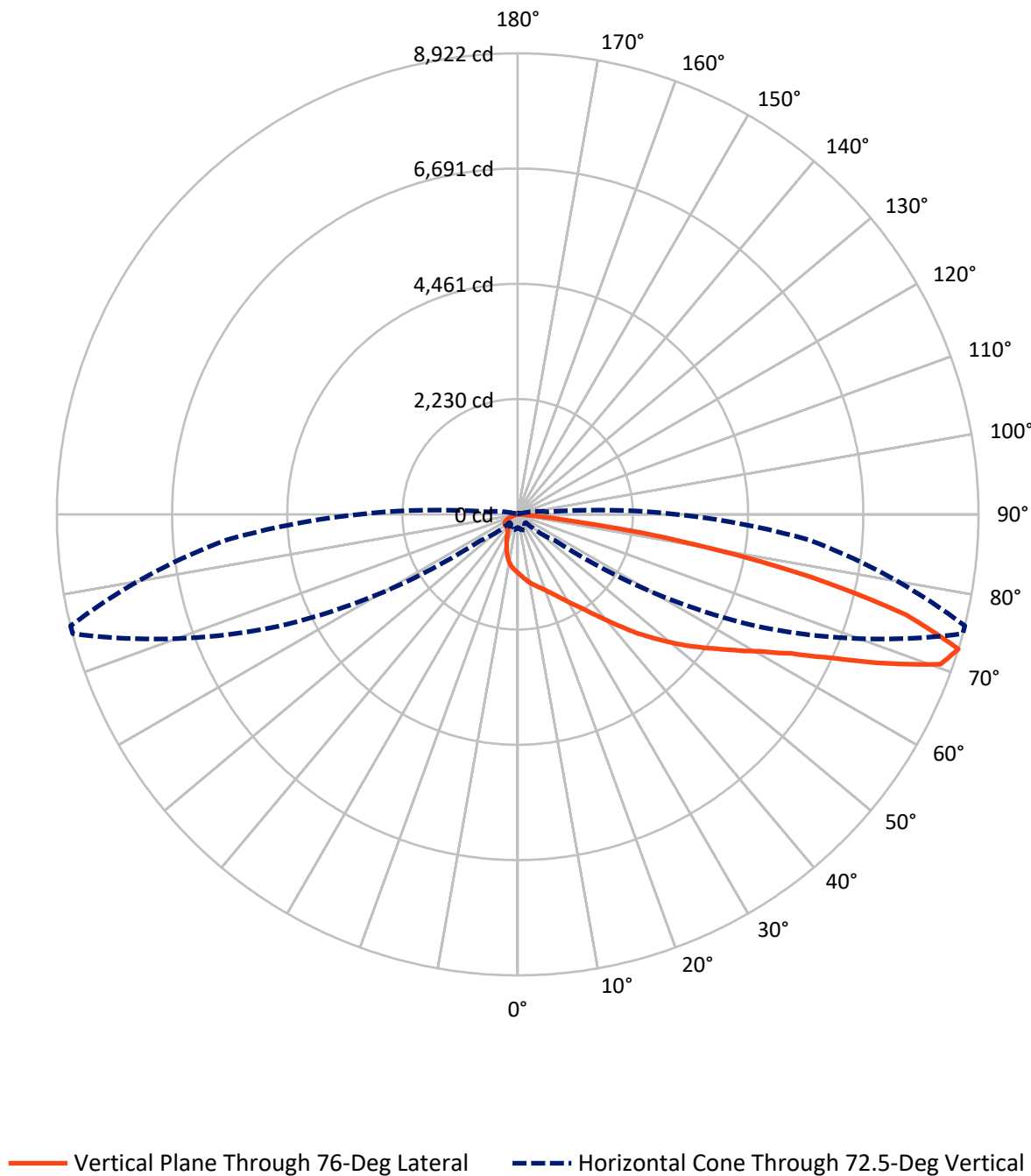
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	673.9	0.0	673.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	5910.7	0.0	5910.7
	% Fixture	89.8	0.0	89.8
Total	Lumens	6584.6	0.0	6584.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	1.6
10°-20°	277.5	4.2
20°-30°	439.2	6.7
30°-40°	679.5	10.3
40°-50°	1032.0	15.7
50°-60°	1422.8	21.6
60°-70°	1503.1	22.8
70°-80°	1031.1	15.7
80°-90°	96.0	1.5
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°	6584.6	100.0
0°-180°	6584.6	100.0

Coefficient of Utilization



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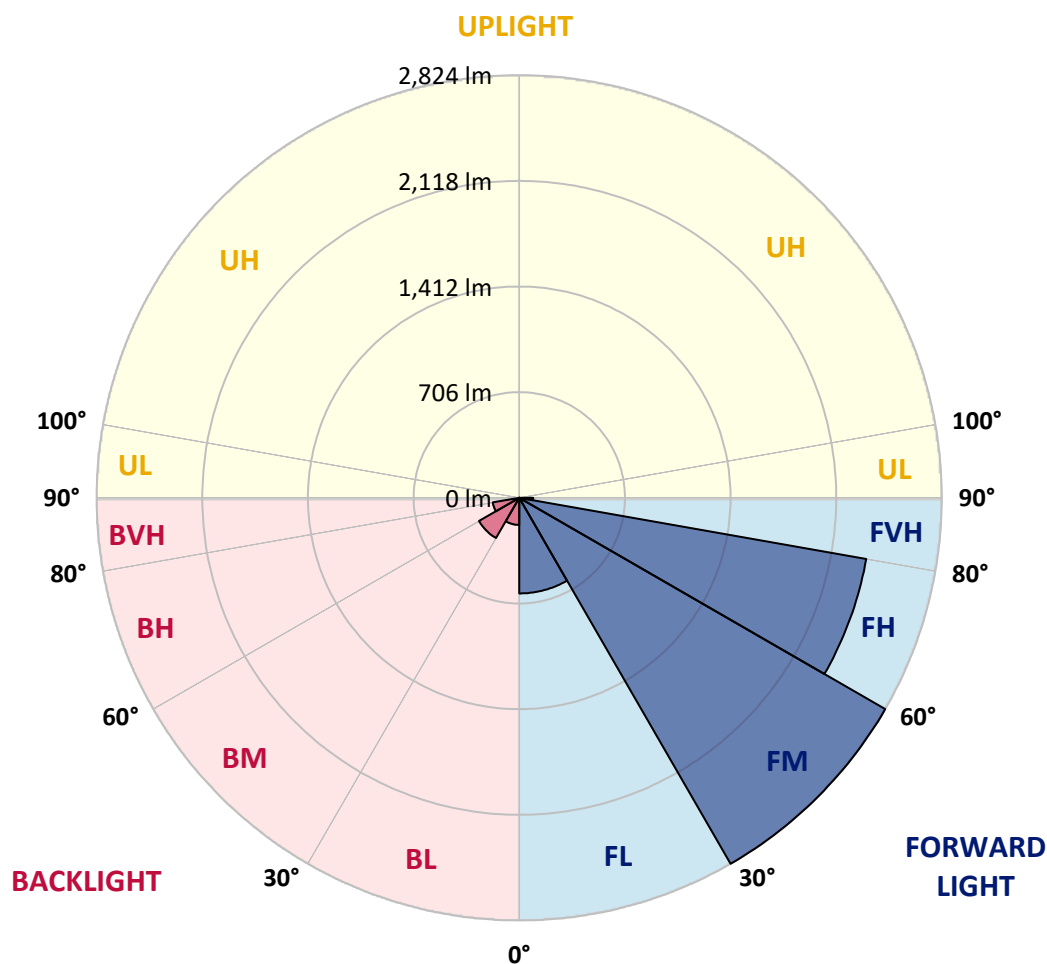
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	639.0	9.7			
FM	(30°-60°)	2824.0	42.9			
FH	(60°-80°)	2354.3	35.8			G2/5000
FVH	(80°-90°)	93.4	1.4			G1/100
BL	(0°-30°)	181.1	2.8	B1/500		
BM	(30°-60°)	310.3	4.7	B1/1000		
BH	(60°-80°)	179.9	2.7	B1/500		G1/500
BVH	(80°-90°)	2.6	0.0			G0/10
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°	76°	85°
0°	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9
2.5°	1322.9	1305.3	1308.7	1291.2	1283.1	1263.4	1242.9	1216.1	1186.1	1186.1	1157.1
5°	1462.1	1451.0	1451.0	1430.5	1414.7	1383.9	1347.2	1299.8	1243.4	1237.8	1182.7
7.5°	1547.5	1540.7	1545.0	1533.0	1520.2	1488.1	1444.5	1382.6	1302.8	1295.9	1213.1
10°	1564.1	1563.7	1575.7	1579.1	1587.6	1571.4	1532.6	1461.2	1361.3	1351.5	1239.1
12.5°	1499.7	1491.6	1521.0	1555.6	1604.3	1626.1	1606.0	1533.0	1414.7	1401.0	1263.4
15°	1393.7	1395.4	1423.6	1477.0	1558.2	1635.9	1661.9	1603.0	1468.9	1452.6	1286.5
17.5°	1333.1	1326.7	1351.1	1398.8	1488.5	1598.3	1688.0	1668.4	1526.5	1508.2	1310.1
20°	1325.8	1325.4	1331.0	1352.7	1421.1	1544.5	1685.0	1732.0	1594.5	1573.2	1343.8
22.5°	1376.2	1375.3	1370.6	1366.4	1385.2	1492.0	1672.2	1792.6	1675.7	1652.6	1391.6
25°	1453.6	1452.2	1444.9	1418.9	1400.6	1463.8	1660.3	1849.1	1771.7	1746.1	1449.7
27.5°	1548.0	1547.0	1533.8	1494.6	1447.1	1466.4	1654.2	1907.1	1882.8	1857.6	1516.7
30°	1663.7	1661.9	1634.7	1579.1	1517.2	1507.0	1662.3	1972.5	1998.5	1979.3	1594.1
32.5°	1808.9	1804.2	1768.3	1684.6	1597.9	1561.2	1677.7	2039.5	2135.7	2117.8	1697.4
35°	1921.3	1914.0	1893.1	1819.2	1691.5	1627.8	1713.7	2119.0	2300.5	2284.7	1829.4
37.5°	2017.8	2010.5	1993.4	1932.7	1825.5	1712.8	1771.3	2225.0	2495.3	2487.6	1990.4
40°	2122.0	2110.1	2101.9	2037.0	1940.0	1835.4	1853.7	2348.8	2719.5	2720.4	2184.0
42.5°	2202.3	2197.6	2198.4	2148.5	2050.6	1980.6	1963.1	2488.5	2988.2	2996.3	2416.7
45°	2271.1	2267.2	2283.0	2248.0	2162.1	2075.8	2091.2	2646.5	3282.0	3298.8	2677.3
47.5°	2324.0	2328.3	2350.9	2328.3	2277.9	2142.9	2204.9	2816.9	3590.9	3593.0	2946.4
50°	2377.0	2378.7	2416.2	2405.2	2384.7	2227.9	2309.5	3007.5	3916.3	3920.2	3197.9
52.5°	2393.7	2391.1	2450.9	2478.2	2479.1	2333.0	2444.9	3215.0	4235.4	4247.8	3456.8
55°	2308.2	2315.5	2412.0	2523.0	2567.0	2478.2	2627.7	3477.7	4575.4	4580.5	3713.1
57.5°	1890.5	1930.6	2144.2	2401.8	2623.9	2686.2	2890.4	3784.8	4968.0	4963.3	3972.7
60°	1147.3	1195.1	1450.6	2014.3	2438.5	2895.1	3277.3	4260.6	5396.8	5383.5	4235.4
62.5°	641.5	656.1	737.7	1205.8	1854.6	2762.3	3655.4	4871.8	5972.6	5927.7	4493.8
65°	472.8	477.5	496.7	590.7	911.5	2124.5	3572.5	5602.6	6781.6	6701.7	4803.6
67.5°	410.9	415.6	434.4	447.2	407.0	1116.1	2943.4	6008.0	7808.8	7704.2	5222.5
70°	345.9	348.5	378.8	387.4	291.3	424.6	1890.9	5882.9	8759.5	8684.8	5672.2
72.5°	258.0	268.2	312.2	332.7	233.6	225.5	890.1	5143.6	8920.6	8921.5	5642.0
75°	175.2	184.5	234.9	273.8	180.3	158.1	359.3	3840.8	7767.8	7767.8	4945.7
77.5°	119.6	127.3	163.6	214.8	136.6	108.4	186.2	2437.7	5572.8	5768.8	3525.1
80°	53.0	57.7	105.5	155.9	103.8	70.0	105.5	1334.8	3370.1	3328.6	1381.8
82.5°	26.0	29.9	67.4	97.4	67.0	43.2	55.6	634.7	1092.1	1037.9	215.7
85°	5.1	6.9	36.3	41.4	31.2	19.3	20.9	195.2	131.5	150.4	45.7
87.5°	0.0	0.0	11.1	7.7	3.4	4.3	4.3	17.5	10.2	12.0	12.0
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°	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9
2.5°	1141.7	1126.0	1091.3	1057.2	1022.1	990.0	967.9	945.7	932.0	926.0	926.9
5°	1150.7	1118.7	1046.0	970.1	894.8	821.3	766.3	714.6	698.3	671.5	673.1
7.5°	1164.8	1112.6	998.2	870.0	747.9	640.3	562.5	500.6	475.8	451.9	451.5
10°	1174.1	1101.6	935.0	763.7	598.4	477.5	403.2	358.3	342.1	327.6	327.2
12.5°	1178.0	1081.1	862.3	644.5	465.6	363.9	319.5	298.6	293.0	287.9	287.9
15°	1181.4	1061.0	781.3	529.6	367.8	304.5	287.0	280.2	276.3	273.0	273.0
17.5°	1184.4	1035.4	688.5	430.5	310.6	280.6	272.0	264.9	261.8	258.0	258.0
20°	1194.6	1010.5	605.7	355.4	279.3	263.5	254.1	246.4	243.8	241.3	241.8
22.5°	1213.9	990.6	525.4	304.5	260.6	246.0	234.1	225.5	223.9	222.1	220.8
25°	1237.0	965.8	449.8	271.6	242.2	225.9	212.7	205.4	203.8	204.2	203.4
27.5°	1266.5	938.4	384.9	250.7	225.9	207.2	192.2	186.7	187.5	189.2	188.4
30°	1298.9	913.2	334.0	236.2	211.5	190.5	175.6	171.7	174.7	177.2	176.4
32.5°	1347.2	891.0	298.6	224.7	198.6	176.8	164.9	160.2	163.6	167.0	166.2
35°	1413.0	879.9	278.5	214.8	187.5	166.2	154.2	150.8	154.2	155.1	154.7
37.5°	1493.6	879.0	270.0	206.7	177.2	157.2	143.9	142.7	145.2	145.7	144.8
40°	1597.9	884.6	263.5	200.8	166.6	146.9	134.6	133.2	134.1	137.1	136.6
42.5°	1729.9	907.6	254.6	193.1	155.1	136.6	126.9	123.8	123.4	126.9	126.4
45°	1895.6	958.5	242.6	180.7	144.8	128.1	118.3	114.9	113.6	114.5	115.7
47.5°	2076.2	1020.8	230.6	169.1	137.6	121.3	111.5	107.2	105.1	105.1	105.1
50°	2251.4	1091.3	222.5	157.2	132.4	114.9	104.2	99.9	96.6	95.6	95.2
52.5°	2424.8	1160.5	216.2	145.2	126.4	106.8	97.4	92.7	88.9	87.1	86.3
55°	2582.9	1226.3	205.0	133.7	118.7	98.2	90.5	85.9	81.2	78.2	76.9
57.5°	2734.5	1280.9	184.5	121.8	106.8	90.1	83.3	78.2	72.6	68.8	67.0
60°	2872.5	1309.1	158.9	109.0	94.8	81.6	75.1	70.5	63.2	56.8	55.1
62.5°	2977.5	1298.1	131.1	94.4	82.4	73.9	65.8	61.1	52.6	44.9	41.8
65°	3085.1	1237.4	104.7	79.0	72.2	63.7	55.1	50.4	40.6	32.5	30.3
67.5°	3224.9	1108.0	82.4	65.8	62.3	50.4	43.2	40.2	33.3	25.6	23.9
70°	3314.5	860.7	64.1	53.4	51.2	36.7	33.3	32.9	26.4	19.7	17.5
72.5°	3068.5	564.3	49.1	40.6	36.7	23.9	25.6	25.6	19.3	13.2	11.6
75°	2561.5	330.2	35.5	29.0	20.9	15.4	17.5	17.5	12.0	6.5	5.1
77.5°	1829.4	176.0	23.5	17.9	10.7	6.9	9.4	9.0	3.9	0.4	0.0
80°	699.7	60.7	11.1	7.3	3.0	1.3	0.8	0.4	0.4	0.0	0.0
82.5°	106.8	15.8	2.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)