

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: P963957

Luminaire Tested: **NAV-SB3B-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10831.2 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

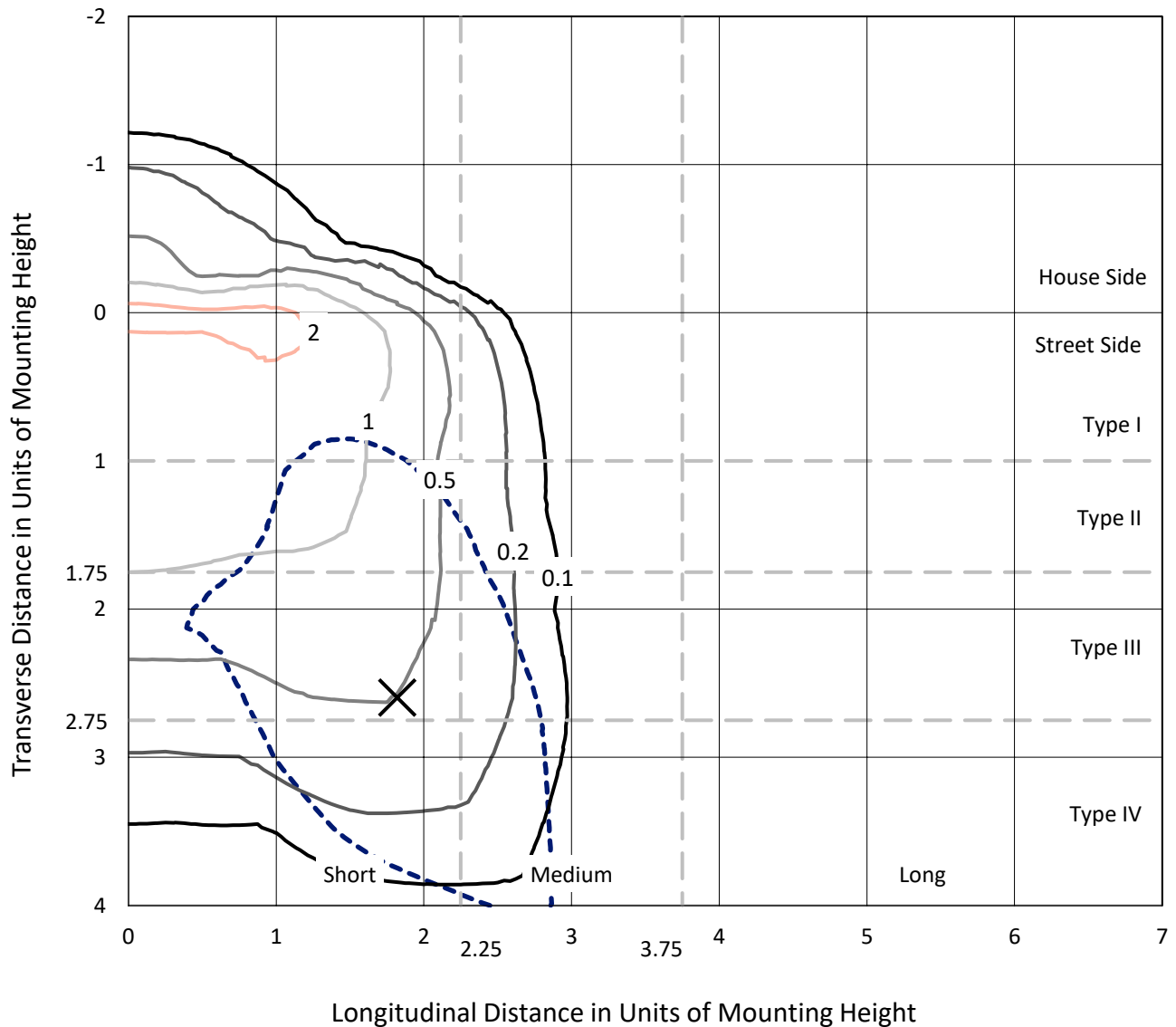
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

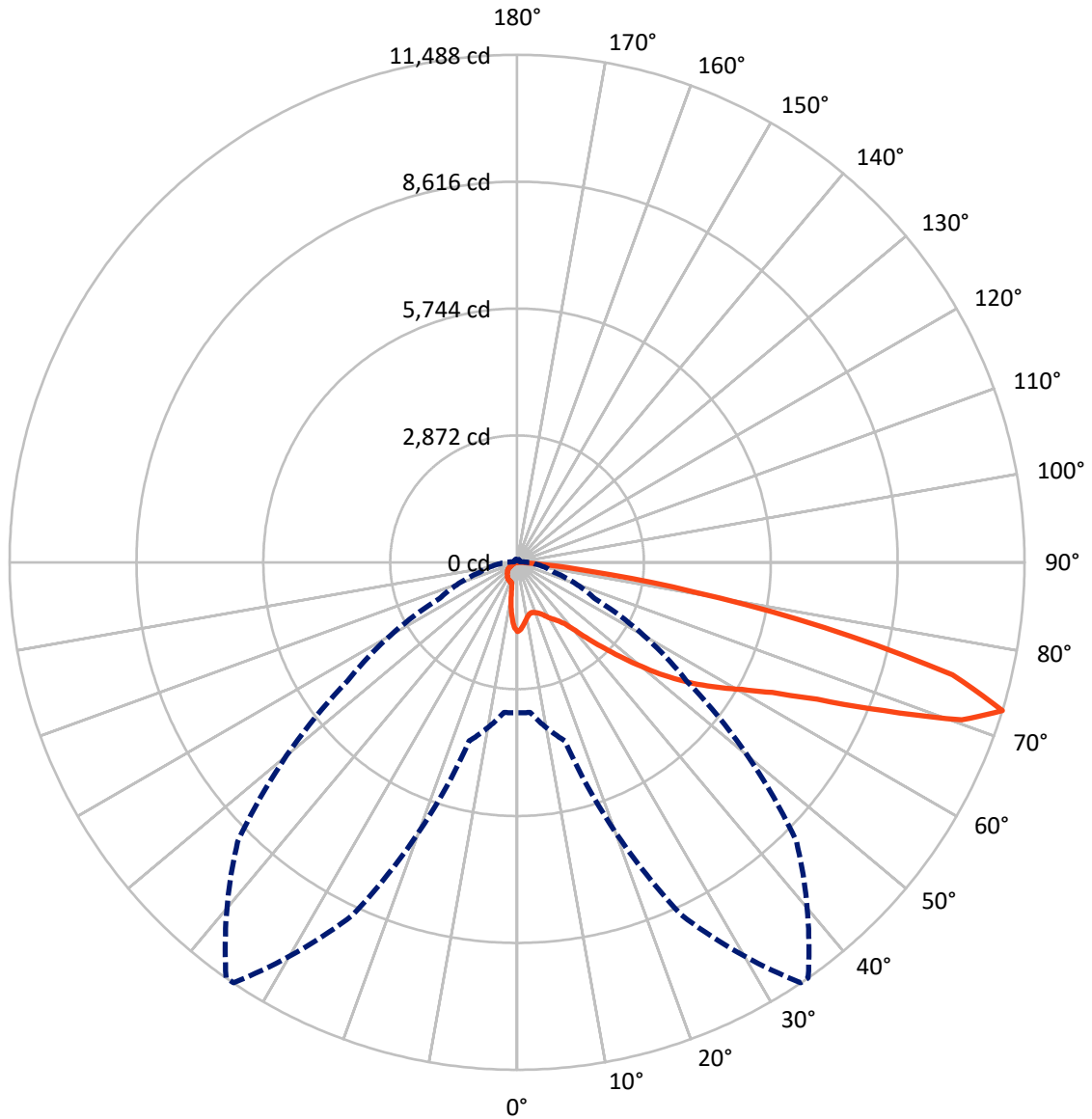
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1219.0	0.0	1219.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	9612.2	0.0	9612.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	10831.2	0.0	10831.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	1.2
10°-20°	301.8	2.8
20°-30°	490.2	4.5
30°-40°	817.9	7.6
40°-50°	1547.5	14.3
50°-60°	2459.0	22.7
60°-70°	3042.0	28.1
70°-80°	1890.9	17.5
80°-90°	152.8	1.4
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°	10831.2	100.0
0°-180°	10831.2	100.0

Coefficient of Utilization



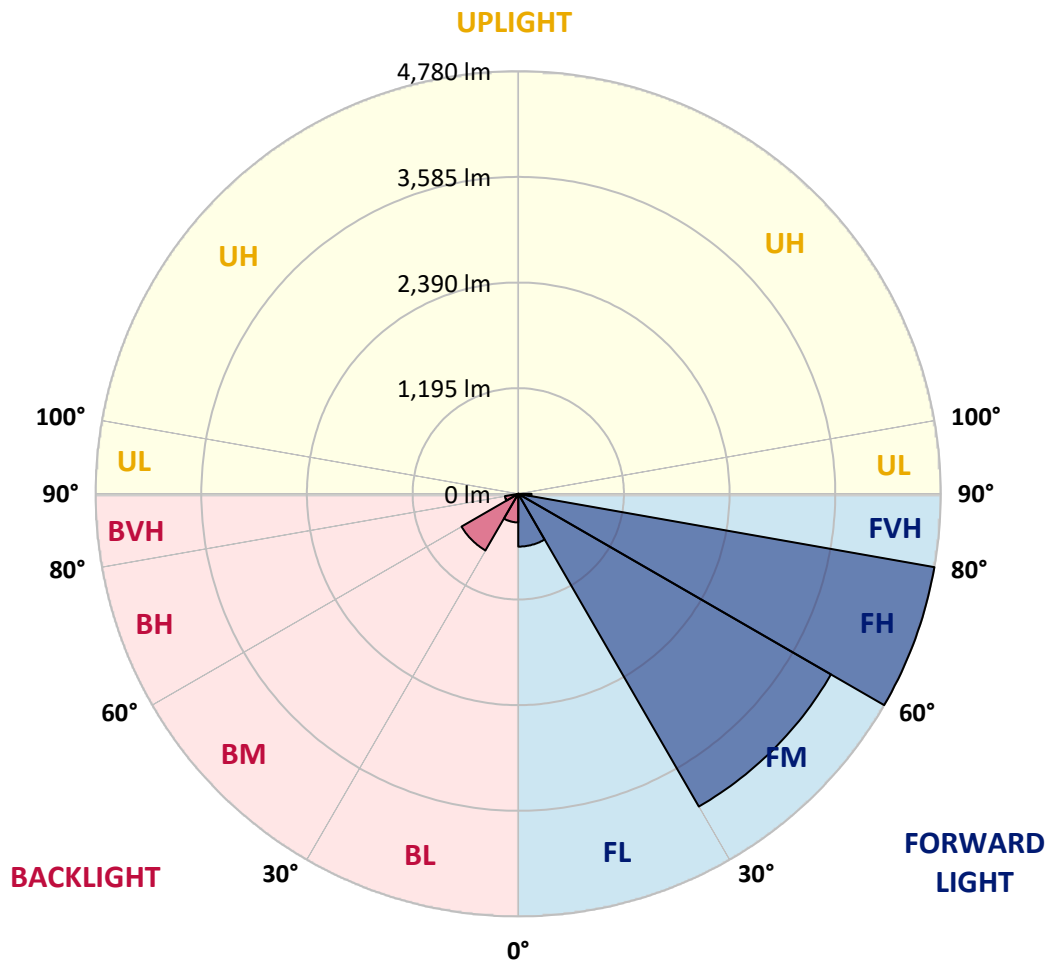
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	597.1	5.5			
FM (30°-60°)	4084.4	37.7			
FH (60°-80°)	4779.9	44.1			G2/5000
FVH (80°-90°)	150.7	1.4			G2/225
BL (0°-30°)	323.9	3.0	B1/500		
BM (30°-60°)	740.0	6.8	B1/1000		
BH (60°-80°)	153.0	1.4	B1/500		G1/500
BVH (80°-90°)	2.1	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8
2.5°	1500.0	1512.7	1515.1	1519.0	1519.0	1523.8	1531.7	1542.8	1561.1	1570.6	1577.0
5°	1382.5	1392.1	1403.9	1413.5	1431.7	1434.1	1465.0	1495.2	1537.3	1569.0	1591.2
7.5°	1264.2	1275.4	1291.2	1314.3	1338.0	1345.2	1392.1	1442.8	1509.5	1569.0	1606.3
10°	1180.9	1181.7	1196.0	1219.0	1257.1	1265.9	1323.0	1395.2	1478.6	1559.4	1620.6
12.5°	1134.1	1139.7	1146.1	1163.5	1200.0	1205.5	1266.6	1351.6	1447.6	1553.9	1637.2
15°	1134.1	1138.1	1142.1	1150.8	1180.1	1184.9	1238.8	1323.8	1431.7	1556.3	1664.3
17.5°	1146.1	1152.3	1149.1	1159.5	1190.4	1193.6	1241.3	1315.8	1430.9	1571.4	1705.5
20°	1174.5	1179.4	1173.0	1179.4	1210.3	1216.7	1265.9	1331.0	1444.4	1597.6	1757.1
22.5°	1219.9	1222.2	1207.1	1211.9	1243.6	1251.5	1308.7	1373.8	1476.9	1639.6	1826.1
25°	1276.9	1281.8	1258.7	1264.2	1294.4	1303.9	1369.8	1438.1	1528.6	1697.6	1914.2
27.5°	1342.9	1345.2	1325.3	1324.6	1363.5	1377.0	1443.6	1517.4	1597.6	1770.6	2025.3
30°	1418.2	1425.4	1406.3	1403.1	1452.3	1463.5	1529.3	1615.0	1699.1	1880.2	2183.2
32.5°	1477.7	1483.3	1472.2	1480.1	1530.1	1538.8	1633.3	1753.2	1858.6	2035.6	2398.4
35°	1563.4	1566.6	1541.2	1555.5	1612.6	1634.9	1775.3	1946.8	2059.4	2230.9	2679.2
37.5°	1873.8	1873.8	1765.9	1695.1	1750.0	1769.8	1969.7	2190.4	2307.1	2492.8	3033.3
40°	2303.1	2296.0	2138.0	1993.6	1986.4	2025.3	2246.8	2497.5	2626.9	2807.1	3431.7
42.5°	2761.0	2750.0	2534.8	2392.0	2368.2	2381.7	2566.6	2876.1	3007.9	3190.4	3860.3
45°	3167.4	3164.2	2967.4	2775.3	2732.4	2775.3	2965.8	3319.0	3413.4	3605.4	4288.0
47.5°	3507.9	3507.9	3364.2	3238.8	3216.6	3242.0	3506.2	3810.2	3801.5	4047.5	4704.6
50°	3899.9	3896.7	3760.2	3706.3	3729.3	3765.0	4128.5	4327.7	4203.1	4481.6	5076.8
52.5°	4174.5	4193.6	4146.7	4138.0	4255.5	4317.3	4760.2	4834.0	4562.6	4893.6	5355.4
55°	4391.9	4414.2	4468.2	4529.3	4755.4	4836.4	5372.1	5314.1	4863.3	5250.7	5515.7
57.5°	4699.8	4668.2	4751.5	4872.1	5238.0	5335.5	5964.9	5767.3	5105.4	5540.3	5533.2
60°	5073.6	5078.5	5092.7	5245.1	5719.7	5845.1	6549.0	6195.9	5261.0	5718.1	5339.5
62.5°	5522.9	5530.0	5559.4	5793.5	6366.5	6484.8	7171.2	6546.7	5332.4	5668.1	4839.5
65°	5492.0	5522.1	5849.9	6650.6	7349.8	7466.5	7897.4	6792.7	5224.4	5211.0	3940.4
67.5°	5003.0	5052.2	5600.6	7674.4	8832.3	8962.5	8775.1	6841.1	4758.6	4052.2	2570.6
70°	4361.8	4379.2	5038.8	8595.0	10548.9	10680.7	9560.9	6308.6	3611.0	2260.2	1151.6
72.5°	3406.3	3410.3	4184.0	8808.5	11480.6	11487.8	8944.3	4683.2	1942.0	868.3	400.0
75°	2433.2	2409.5	2802.4	7143.4	10100.6	10181.5	6705.3	2196.8	742.0	410.3	199.2
77.5°	1304.7	1331.0	1585.7	4236.4	6977.6	7115.7	3658.6	633.3	377.8	279.3	131.7
80°	403.1	425.4	650.0	1939.6	3952.3	4035.6	1356.3	281.8	263.5	199.2	86.5
82.5°	127.0	131.7	303.2	815.1	1640.4	1678.5	392.9	159.5	180.2	131.7	50.8
85°	36.5	37.3	134.9	303.9	405.6	413.5	110.3	61.9	103.2	81.8	26.2
87.5°	4.0	12.7	50.8	50.8	35.7	35.0	11.9	13.5	29.3	10.4	4.7
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°	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8
2.5°	1573.0	1573.8	1563.4	1546.0	1526.9	1511.1	1491.3	1475.4	1464.2	1461.0	1466.7
5°	1584.0	1578.5	1549.2	1496.0	1432.5	1377.7	1316.6	1268.2	1236.5	1223.0	1227.7
7.5°	1600.7	1584.9	1520.6	1415.8	1294.4	1186.4	1077.0	992.0	938.1	911.1	915.0
10°	1615.0	1583.3	1473.0	1300.0	1114.3	950.8	803.2	700.8	643.6	616.6	617.5
12.5°	1628.5	1582.5	1411.1	1162.7	911.1	711.0	573.8	523.0	507.2	501.5	500.0
15°	1653.9	1584.9	1333.3	1005.5	708.7	537.3	487.3	486.5	489.6	488.1	487.3
17.5°	1688.9	1587.2	1245.2	838.9	546.8	473.8	471.4	478.6	483.3	480.9	480.1
20°	1734.1	1596.7	1151.6	673.8	469.9	458.0	463.5	469.9	473.8	469.9	469.0
22.5°	1797.5	1613.5	1049.2	541.3	445.3	448.4	453.2	460.3	464.2	458.7	458.0
25°	1875.3	1639.6	948.4	470.6	433.4	437.3	444.4	452.3	457.2	451.6	450.8
27.5°	1976.1	1681.7	855.6	454.8	421.4	423.8	434.1	446.0	452.3	445.3	445.3
30°	2122.2	1750.7	775.4	461.9	414.3	408.8	423.0	439.6	446.8	440.4	439.6
32.5°	2315.8	1848.4	726.2	473.0	411.1	391.2	404.8	426.2	438.1	434.1	434.1
35°	2569.8	1996.8	707.1	485.7	408.8	373.0	382.5	405.6	426.2	430.2	430.2
37.5°	2877.7	2203.1	712.7	491.3	401.6	357.9	362.6	382.5	409.5	422.2	425.4
40°	3227.7	2443.6	744.5	485.7	393.6	345.2	346.0	361.1	384.9	404.0	410.3
42.5°	3588.8	2724.6	803.2	465.0	386.5	334.2	331.7	342.0	357.9	371.5	377.0
45°	3932.4	3013.4	861.1	436.5	377.8	323.0	317.4	321.4	324.6	330.2	333.3
47.5°	4232.4	3216.6	844.4	410.3	365.8	310.3	300.7	299.2	289.7	288.8	288.1
50°	4439.6	3261.0	750.0	384.1	348.4	296.0	281.0	271.4	254.7	246.8	247.6
52.5°	4505.4	3085.7	612.6	357.9	319.8	277.0	255.5	240.5	219.9	212.7	211.9
55°	4418.2	2742.0	489.6	326.2	280.1	251.5	227.8	208.0	191.3	182.6	182.6
57.5°	4204.7	2304.7	387.2	288.8	238.1	223.0	199.2	179.4	165.0	156.3	154.8
60°	3850.7	1830.1	306.4	244.5	203.2	192.1	167.5	154.8	142.1	131.7	129.4
62.5°	3313.4	1306.4	240.5	193.6	169.8	157.1	142.9	133.4	118.3	103.9	101.6
65°	2585.7	799.2	185.7	142.1	136.5	130.2	121.5	112.6	94.4	80.2	77.8
67.5°	1630.9	378.5	132.5	107.1	107.9	104.8	100.8	93.7	80.2	67.4	65.9
70°	718.2	183.4	87.3	81.8	80.2	80.2	83.3	81.0	68.3	56.4	54.0
72.5°	244.5	98.4	65.1	61.9	57.9	57.1	69.8	67.4	54.7	43.7	41.3
75°	127.8	65.9	47.7	44.5	35.0	42.0	55.6	52.4	38.8	28.6	26.2
77.5°	83.3	46.8	32.5	28.6	19.9	27.8	41.3	36.5	23.1	14.2	12.7
80°	52.4	31.0	19.1	13.5	9.5	15.1	22.2	15.9	8.7	3.2	2.4
82.5°	27.8	15.9	7.2	4.7	4.0	4.7	5.5	4.0	1.5	0.0	0.0
85°	11.1	5.5	2.4	1.5	0.8	0.0	1.5	0.8	0.0	0.0	0.0
87.5°	4.0	0.8	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)