

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: P963427

Luminaire Tested: **NAV-SB3A-722-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-722-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9487.4 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

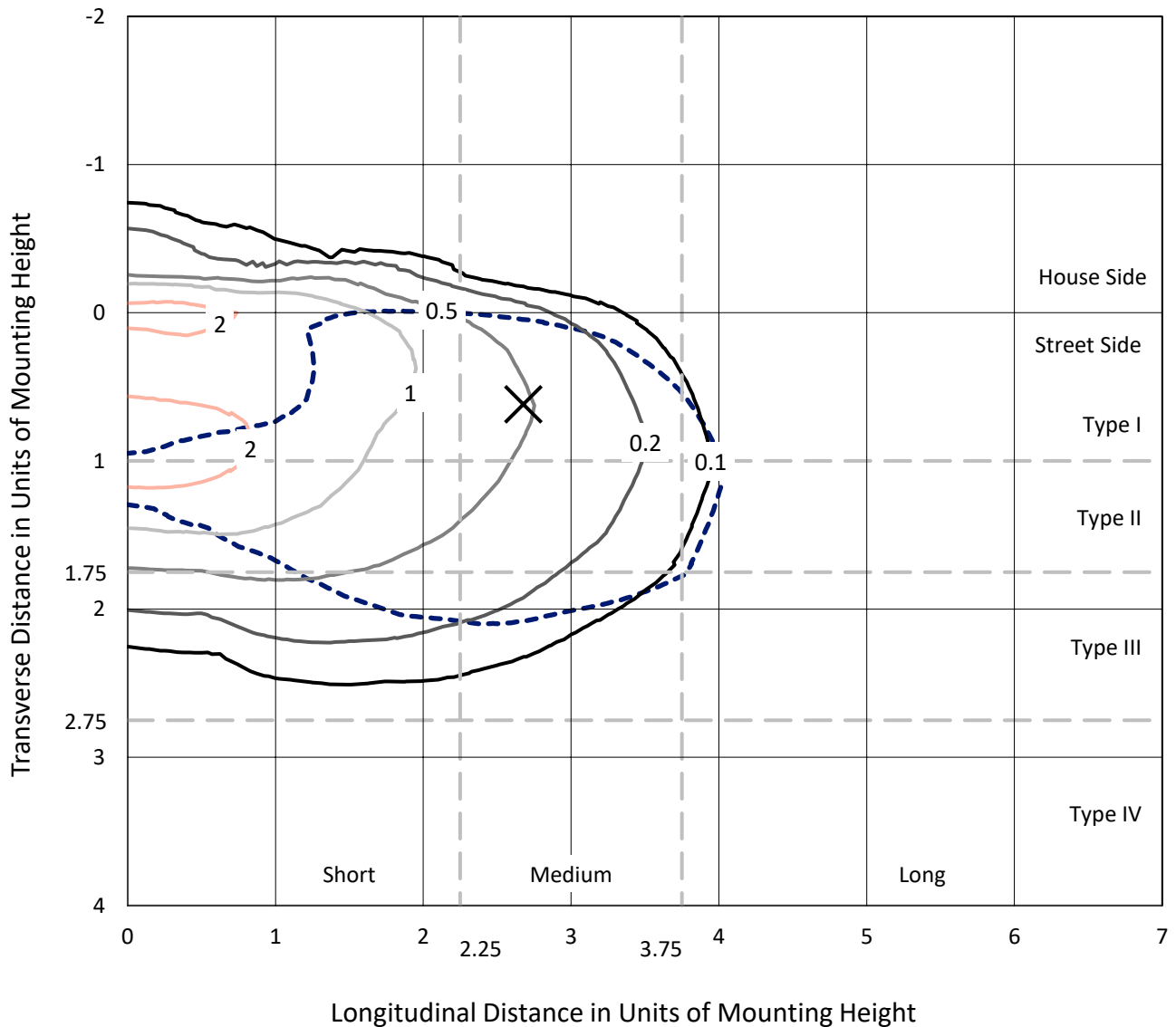
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

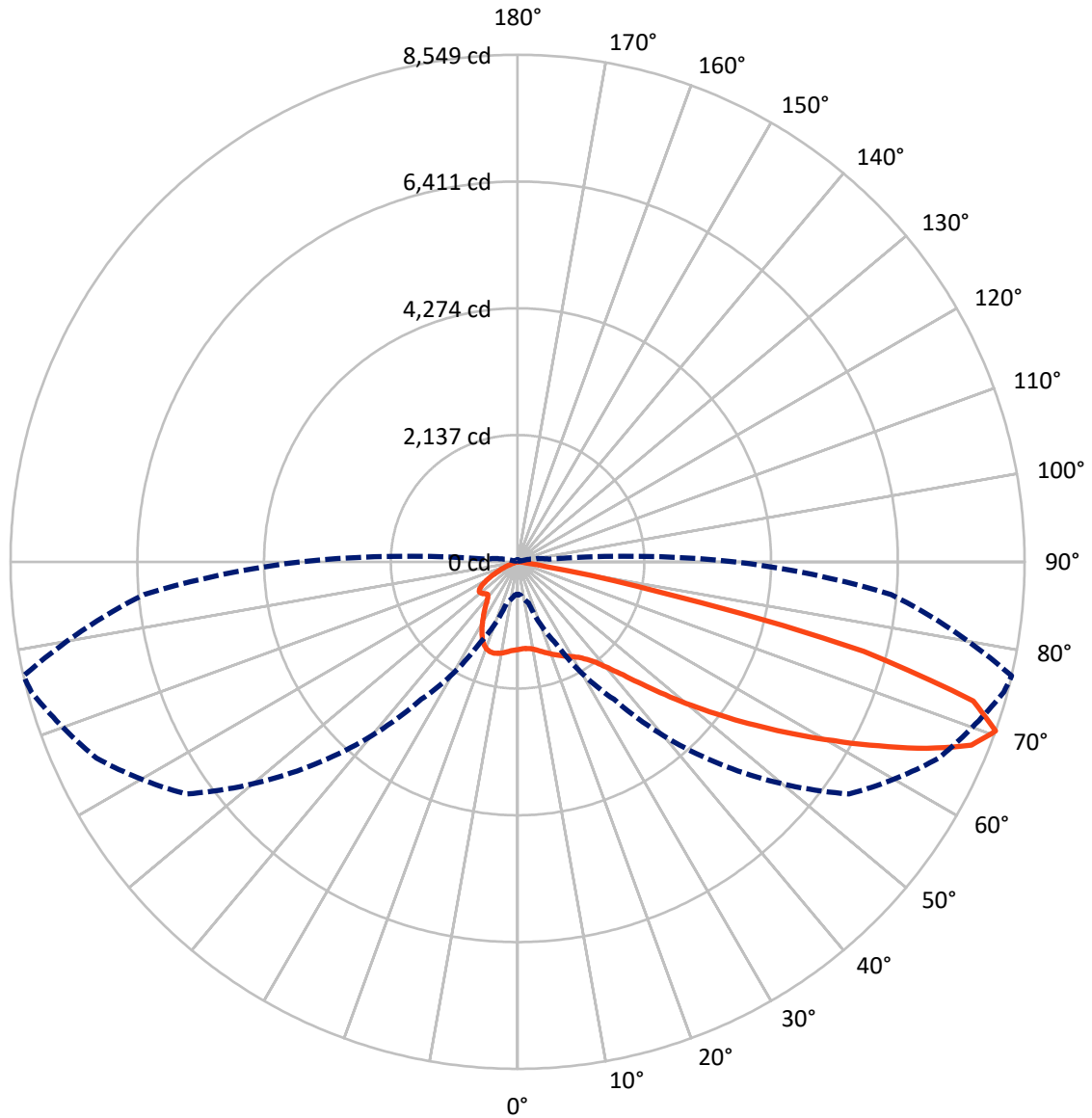
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1000.1	0.0	1000.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	8487.3	0.0	8487.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	9487.4	0.0	9487.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	1.3
10°-20°	302.8	3.2
20°-30°	468.3	4.9
30°-40°	849.8	9.0
40°-50°	1604.0	16.9
50°-60°	2317.7	24.4
60°-70°	2467.1	26.0
70°-80°	1307.4	13.8
80°-90°	42.9	0.5
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°	9487.4	100.0
0°-180°	9487.4	100.0

Coefficient of Utilization

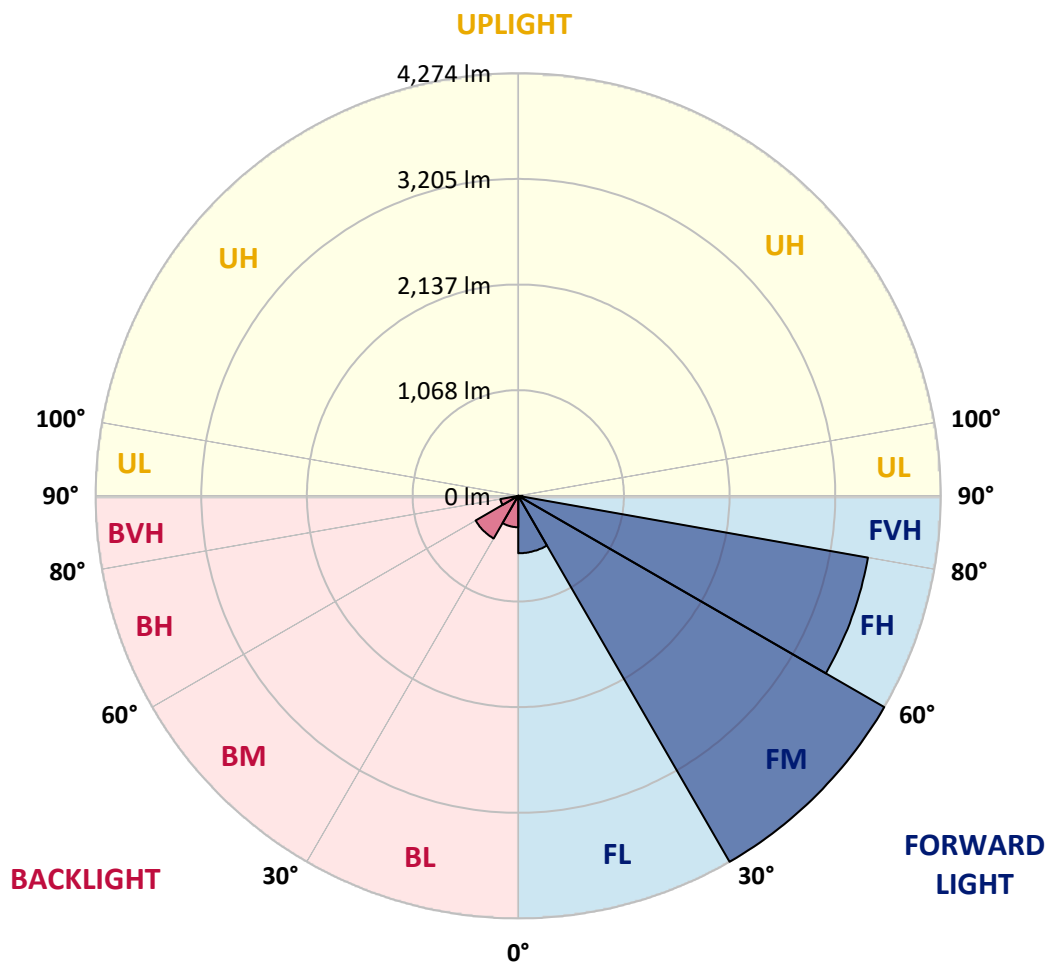


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.8	6.1			
FM (30°-60°)	4273.6	45.0			
FH (60°-80°)	3591.1	37.9			G2/5000
FVH (80°-90°)	41.8	0.4			G1/100
BL (0°-30°)	317.8	3.3	B1/500		
BM (30°-60°)	497.8	5.2	B1/1000		
BH (60°-80°)	183.3	1.9	B1/500		G1/500
BVH (80°-90°)	1.2	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9
2.5°	1389.4	1402.0	1400.1	1408.6	1411.5	1423.5	1435.5	1451.7	1469.6	1469.0	1481.0
5°	1310.9	1323.5	1326.5	1337.8	1352.3	1370.8	1395.4	1427.7	1461.2	1466.7	1490.7
7.5°	1218.0	1231.2	1239.0	1261.8	1288.1	1326.5	1366.6	1414.0	1469.6	1477.4	1523.6
10°	1125.1	1137.1	1147.4	1179.7	1221.6	1278.6	1343.9	1412.1	1487.1	1498.4	1563.7
12.5°	1067.6	1079.0	1090.4	1118.6	1170.8	1240.2	1328.9	1420.5	1515.8	1532.0	1618.3
15°	1047.2	1057.5	1066.4	1091.6	1140.1	1219.2	1325.8	1438.0	1552.4	1573.9	1684.2
17.5°	1050.3	1055.6	1061.7	1080.9	1128.2	1209.6	1331.3	1467.9	1595.5	1614.7	1750.1
20°	1067.6	1070.6	1071.2	1084.4	1126.4	1208.5	1342.0	1496.6	1636.2	1662.0	1815.4
22.5°	1089.8	1091.0	1089.8	1098.8	1137.8	1217.4	1356.5	1531.4	1681.8	1705.7	1881.3
25°	1193.5	1170.8	1142.0	1124.5	1156.9	1234.8	1378.0	1578.1	1731.5	1754.9	1945.3
27.5°	1515.3	1449.9	1346.8	1231.2	1196.5	1259.9	1407.9	1625.4	1781.9	1802.8	2014.3
30°	2037.7	1952.0	1777.0	1516.4	1323.5	1312.7	1446.9	1672.8	1835.2	1857.9	2088.0
32.5°	2561.3	2540.4	2338.4	1977.7	1609.2	1430.2	1511.6	1736.9	1905.9	1923.8	2187.5
35°	3090.9	3048.4	2883.0	2526.5	2049.6	1669.2	1619.5	1820.8	1998.7	2019.0	2332.4
37.5°	3496.6	3470.8	3368.4	3074.8	2572.1	2038.2	1804.0	1950.8	2133.5	2156.3	2518.1
40°	3854.8	3842.8	3808.1	3614.6	3156.3	2521.2	2091.0	2152.1	2320.5	2347.5	2745.9
42.5°	4136.4	4164.6	4184.4	4130.4	3758.4	3072.3	2476.8	2434.9	2581.1	2608.6	3035.8
45°	4424.6	4434.2	4513.9	4591.8	4356.4	3648.7	2911.8	2766.2	2905.2	2939.4	3383.3
47.5°	4609.7	4648.1	4788.3	4925.5	4859.0	4220.3	3379.1	3157.4	3280.8	3345.0	3772.7
50°	4623.6	4696.0	4888.9	5128.0	5225.0	4764.3	3887.2	3603.2	3734.4	3805.1	4188.6
52.5°	4394.1	4506.7	4805.6	5155.5	5422.8	5225.0	4412.6	4049.0	4217.3	4309.6	4619.9
55°	3369.0	3516.4	4492.3	5005.8	5430.6	5574.4	4924.3	4513.3	4755.3	4859.6	5086.0
57.5°	2935.2	3009.5	3531.9	4745.8	5286.1	5715.2	5386.8	4955.5	5340.7	5470.1	5526.4
60°	2442.1	2539.7	2962.1	4320.4	5090.3	5728.9	5795.5	5525.8	5975.1	6120.8	5930.2
62.5°	1659.6	1765.7	2185.6	3589.4	4822.4	5722.4	6130.3	6113.0	6680.3	6836.7	6272.4
65°	1028.1	1094.6	1371.4	2931.0	4448.0	5729.5	6480.9	6826.0	7424.5	7583.3	6537.1
67.5°	812.4	843.0	987.4	2250.4	3802.7	5567.8	6830.7	7496.3	8124.9	8250.6	6618.0
70°	545.8	564.4	718.3	1508.6	2829.1	4821.2	6824.1	7833.0	8485.6	8548.5	6323.2
72.5°	287.6	302.0	419.9	698.6	1708.8	3427.1	5752.3	7430.4	8126.7	8032.0	5404.8
75°	143.8	167.8	282.8	354.6	729.7	1911.2	3572.0	5858.4	6396.4	6029.7	3467.8
77.5°	109.1	131.8	233.7	233.7	254.0	643.5	1512.8	3195.2	2947.2	2454.1	1017.9
80°	69.5	89.9	204.3	176.7	106.1	163.6	394.2	895.1	626.1	476.3	185.1
82.5°	40.7	58.7	170.1	116.8	59.3	60.5	111.4	190.5	162.4	126.4	56.9
85°	16.2	38.3	116.8	46.1	23.4	15.0	33.5	40.7	33.5	25.1	14.3
87.5°	0.0	9.0	20.4	0.0	1.8	1.2	2.4	3.0	3.0	2.4	4.8
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°	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9
2.5°	1486.5	1487.7	1491.3	1491.9	1483.5	1472.7	1468.5	1466.7	1459.5	1458.9	1460.1
5°	1504.4	1509.8	1504.4	1488.8	1451.7	1399.5	1360.1	1327.7	1298.4	1289.3	1283.9
7.5°	1540.4	1545.8	1529.6	1468.5	1375.0	1271.4	1177.9	1112.0	1052.7	1030.5	1021.5
10°	1591.9	1599.1	1548.2	1424.7	1259.4	1092.9	934.7	823.2	736.4	701.0	686.0
12.5°	1656.6	1659.6	1558.3	1358.2	1108.9	871.1	647.1	527.9	450.6	421.8	412.8
15°	1727.9	1723.7	1559.5	1267.7	904.0	615.9	422.4	346.9	315.7	306.2	306.2
17.5°	1802.8	1785.4	1535.6	1137.1	679.4	421.2	313.3	295.4	290.0	287.6	287.0
20°	1876.5	1837.5	1491.9	966.4	487.7	314.6	284.5	279.2	276.2	275.0	273.8
22.5°	1943.6	1877.1	1417.0	768.1	354.1	278.0	269.1	264.2	258.8	256.5	255.8
25°	2008.9	1899.8	1311.5	582.9	283.4	260.0	252.9	243.8	236.7	233.7	232.5
27.5°	2072.4	1914.2	1179.7	431.4	252.9	243.2	230.1	217.5	212.1	210.9	209.7
30°	2140.1	1919.0	1029.9	321.7	234.2	222.3	203.2	188.7	185.7	186.3	186.3
32.5°	2222.8	1926.2	878.9	263.6	218.7	197.1	174.4	159.4	156.9	159.4	158.8
35°	2321.6	1940.6	733.4	242.6	204.9	171.4	146.8	134.2	131.8	133.6	133.0
37.5°	2455.9	1964.0	597.4	238.4	193.5	149.8	123.4	113.3	113.3	113.9	113.3
40°	2634.4	2026.3	475.7	235.4	187.6	133.6	104.2	100.0	101.9	103.0	103.0
42.5°	2851.9	2158.6	393.6	231.9	180.9	126.4	94.7	92.9	95.8	97.1	97.1
45°	3095.7	2326.4	364.9	225.9	175.0	131.2	90.5	88.0	91.6	92.2	92.9
47.5°	3348.0	2490.6	361.3	219.2	168.9	138.4	89.3	83.8	88.0	88.7	89.3
50°	3603.2	2597.9	364.9	209.1	159.4	138.4	89.9	79.6	83.2	85.1	85.7
52.5°	3860.3	2647.0	362.4	187.0	142.6	130.0	89.9	76.1	79.6	80.9	80.9
55°	4109.4	2637.4	326.0	154.0	121.1	115.0	87.4	73.1	75.4	76.1	76.1
57.5°	4306.5	2503.8	258.2	119.8	98.3	95.8	79.6	69.5	71.3	70.7	70.7
60°	4409.7	2210.2	184.5	92.2	77.3	75.4	70.1	64.7	65.9	62.9	62.3
62.5°	4410.8	1821.9	123.4	73.1	61.7	60.0	60.0	58.1	56.9	50.9	49.1
65°	4316.8	1391.2	82.1	58.1	49.7	46.7	50.3	49.7	45.5	37.1	36.0
67.5°	4103.5	911.8	62.3	45.5	38.3	36.6	40.2	41.9	38.9	31.2	30.5
70°	3664.9	530.8	51.6	35.4	28.8	27.0	32.4	36.0	32.4	25.1	24.0
72.5°	3044.2	286.4	41.9	26.3	19.8	17.9	25.7	29.3	25.7	18.6	17.9
75°	1975.4	153.3	32.4	17.4	10.1	11.4	19.2	21.5	17.9	12.0	10.8
77.5°	663.3	67.8	20.4	8.4	4.8	4.8	11.4	13.2	8.4	4.2	3.6
80°	148.0	28.2	8.4	3.6	1.8	1.8	2.4	2.4	1.2	0.0	0.0
82.5°	48.5	11.4	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.6	4.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	0.6	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)