

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: P962366

Luminaire Tested: **NAV-SB2C-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962366
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-SB2C-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9260.9 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

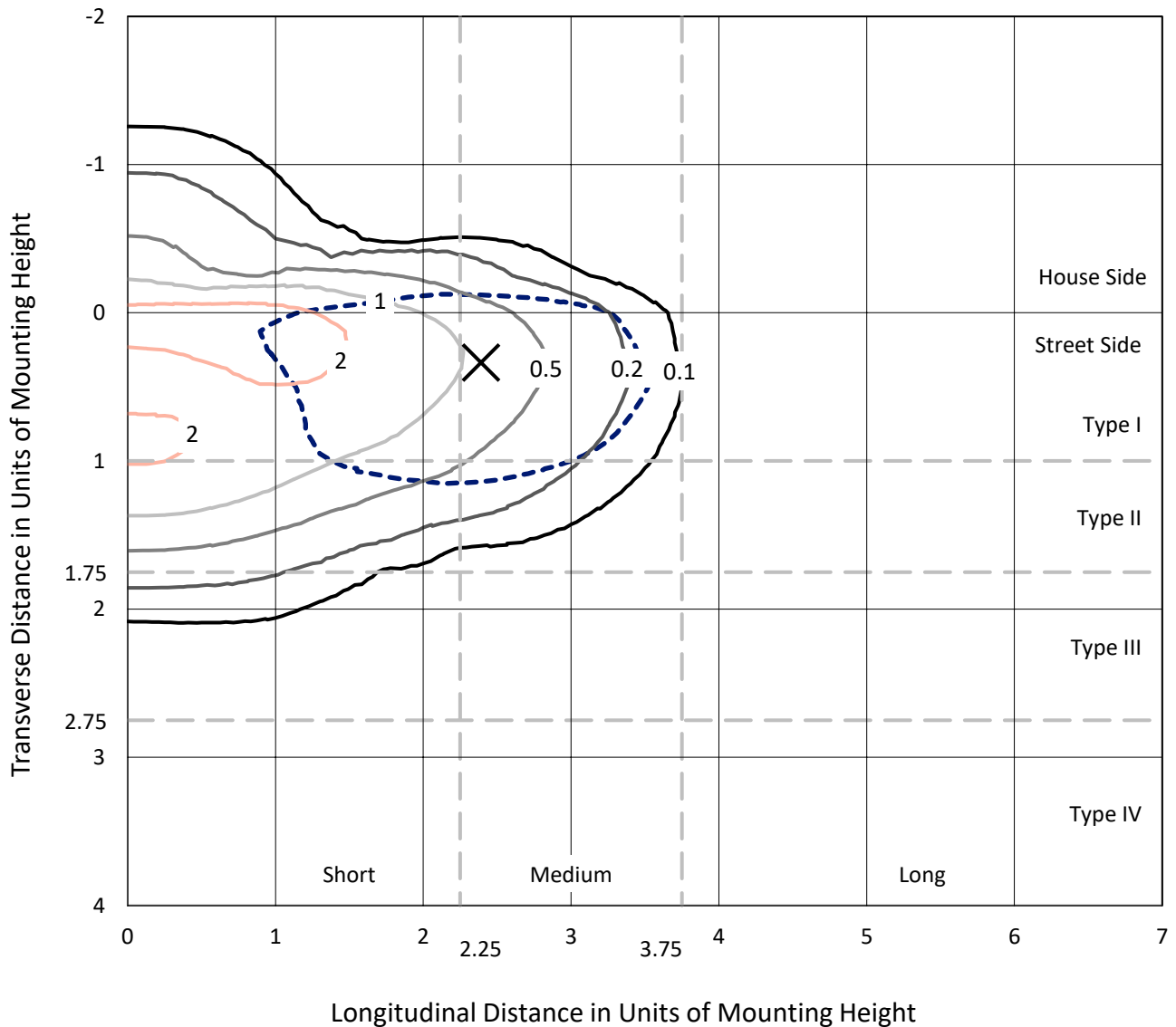
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

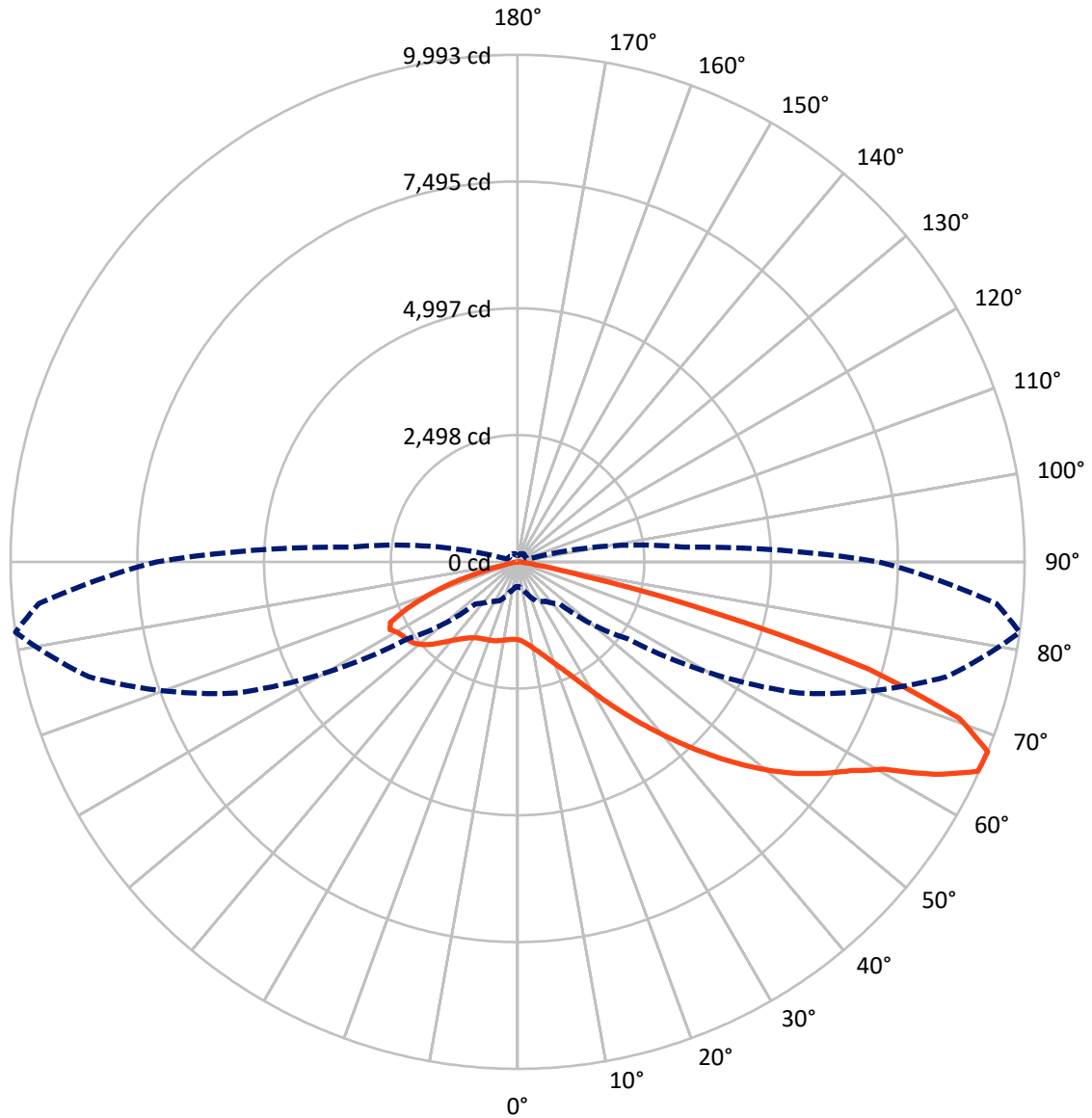
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1677.5	0.0	1677.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	7583.4	0.0	7583.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	9260.9	0.0	9260.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	1.5
10°-20°	355.2	3.8
20°-30°	568.9	6.1
30°-40°	1006.0	10.9
40°-50°	1762.6	19.0
50°-60°	2350.8	25.4
60°-70°	2188.5	23.6
70°-80°	839.9	9.1
80°-90°	52.2	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°	9260.9	100.0
0°-180°	9260.9	100.0

Coefficient of Utilization

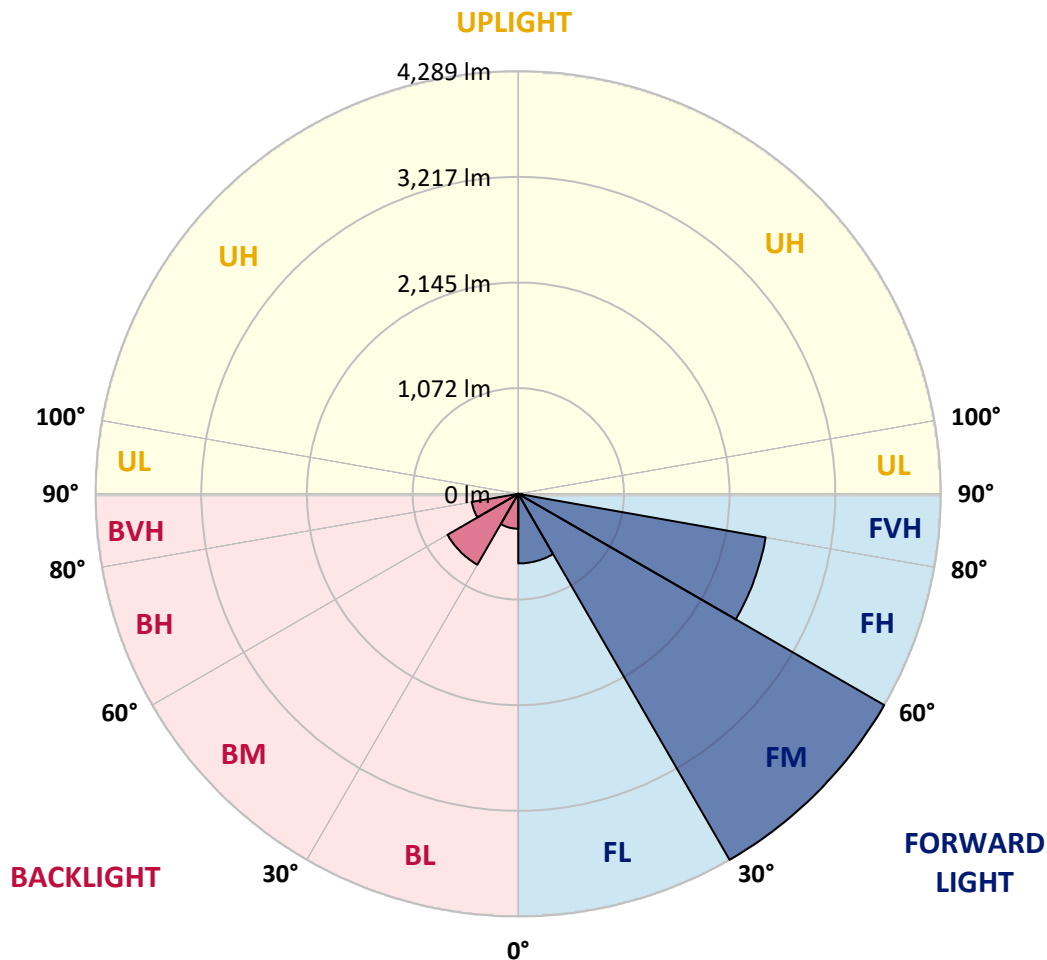


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	706.5	7.6			
FM (30°-60°)	4289.3	46.3			
FH (60°-80°)	2549.7	27.5			G2/5000
FVH (80°-90°)	37.9	0.4			G1/100
BL (0°-30°)	354.3	3.8	B1/500		
BM (30°-60°)	830.2	9.0	B1/1000		
BH (60°-80°)	478.8	5.2	B1/500		G1/500
BVH (80°-90°)	14.2	0.2			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2
2.5°	1621.6	1630.9	1625.5	1622.9	1618.3	1611.6	1606.2	1589.6	1572.2	1560.9	1556.9
5°	1654.2	1663.6	1662.9	1665.5	1668.9	1670.9	1669.5	1650.9	1626.3	1606.9	1595.5
7.5°	1626.3	1636.9	1645.5	1658.9	1682.2	1706.9	1718.9	1714.9	1689.6	1662.9	1648.9
10°	1546.9	1558.2	1578.9	1610.3	1659.6	1712.9	1757.6	1778.3	1762.3	1732.9	1713.6
12.5°	1401.5	1412.9	1453.6	1521.5	1604.2	1696.9	1782.3	1837.6	1841.6	1812.3	1789.5
15°	1238.2	1249.5	1292.8	1378.2	1504.2	1652.9	1795.6	1900.2	1935.6	1910.3	1882.9
17.5°	1136.8	1146.9	1179.5	1248.1	1379.5	1564.9	1790.9	1967.0	2047.6	2027.7	1995.0
20°	1106.2	1114.8	1130.2	1178.1	1287.5	1473.5	1760.2	2029.6	2168.3	2157.0	2120.3
22.5°	1138.8	1146.9	1151.5	1172.8	1241.5	1413.6	1721.6	2093.7	2308.3	2309.6	2264.9
25°	1214.2	1222.2	1216.9	1230.2	1260.1	1394.8	1706.9	2169.0	2484.4	2499.1	2448.3
27.5°	1338.1	1338.9	1326.1	1325.5	1330.1	1422.9	1722.2	2249.7	2706.4	2733.7	2671.0
30°	1586.9	1576.9	1528.2	1475.6	1451.5	1506.9	1764.9	2345.0	2968.4	3017.1	2938.4
32.5°	1970.3	1955.6	1866.2	1740.2	1613.6	1642.3	1841.6	2453.6	3253.8	3341.8	3245.8
35°	2386.3	2382.3	2289.0	2101.7	1880.3	1835.0	1966.3	2596.3	3565.2	3705.2	3591.2
37.5°	2773.0	2771.1	2717.7	2497.0	2227.6	2103.6	2166.3	2783.1	3898.6	4101.2	3966.5
40°	3126.5	3132.4	3079.1	2881.7	2610.4	2448.3	2438.4	3013.7	4269.2	4532.7	4372.6
42.5°	3431.8	3438.5	3384.4	3238.5	2988.4	2829.7	2772.4	3296.5	4631.4	4996.1	4806.6
45°	3639.2	3680.5	3672.5	3555.8	3376.5	3211.7	3173.8	3651.2	5044.0	5487.4	5265.4
47.5°	3697.9	3735.8	3795.9	3811.9	3702.5	3540.5	3585.9	4078.6	5461.4	5979.5	5726.8
50°	3553.2	3588.5	3713.2	3879.2	3955.2	3905.2	3986.5	4536.6	5888.8	6470.2	6179.5
52.5°	3267.8	3303.8	3461.1	3723.8	4033.9	4191.2	4388.6	4988.1	6302.8	6934.9	6608.3
55°	2855.0	2893.1	3095.1	3392.4	3883.8	4309.3	4724.0	5438.8	6682.3	7353.0	6995.0
57.5°	2293.6	2321.6	2531.6	2947.7	3506.5	4191.9	4971.4	5930.9	7039.6	7763.8	7378.4
60°	1494.9	1519.6	1763.6	2227.6	2881.1	3799.9	5020.7	6479.5	7514.4	8297.8	7895.1
62.5°	994.1	1010.9	1155.5	1496.2	2029.0	3047.1	4732.0	6917.6	8210.5	9227.3	8781.2
65°	682.1	698.7	843.5	1080.9	1310.9	2015.7	3901.9	6859.6	8841.2	9965.4	9438.0
67.5°	486.8	500.7	623.4	847.5	948.8	1170.9	2645.0	6118.2	8750.5	9993.3	9473.4
70°	348.7	356.7	458.1	660.1	754.1	703.5	1470.9	4679.3	7661.8	9228.0	8751.9
72.5°	244.1	246.7	318.1	502.8	607.4	513.4	700.1	3119.8	5794.8	7243.0	6785.0
75°	165.3	168.7	214.0	368.7	487.4	392.1	370.7	1672.9	3401.8	4009.2	3593.9
77.5°	101.4	102.7	138.1	252.0	364.7	298.7	238.7	708.8	1316.2	1292.2	1101.5
80°	57.3	57.3	88.0	156.7	248.7	192.7	167.4	301.3	416.8	366.0	322.7
82.5°	32.0	32.7	64.0	97.4	164.7	114.0	92.0	139.4	180.0	159.4	138.7
85°	13.3	14.7	39.4	46.0	78.7	56.7	37.3	58.6	66.6	59.3	43.4
87.5°	1.3	2.0	12.0	8.7	9.3	11.4	5.3	11.4	9.3	9.3	6.7
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°	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2	1534.2
2.5°	1544.3	1534.2	1508.9	1479.6	1440.8	1422.2	1396.9	1379.5	1364.9	1366.2	1352.9
5°	1574.2	1548.9	1492.2	1421.6	1333.5	1270.8	1204.2	1158.1	1120.8	1112.8	1094.8
7.5°	1615.6	1575.5	1476.2	1348.9	1200.2	1087.5	986.8	922.1	876.2	861.4	846.8
10°	1668.9	1610.9	1455.5	1257.5	1043.4	900.2	792.1	741.5	710.1	699.5	691.5
12.5°	1730.9	1651.6	1428.2	1146.2	882.1	744.2	675.5	650.1	640.1	636.7	634.8
15°	1808.9	1702.2	1386.8	1014.1	745.5	648.7	619.4	616.1	617.5	616.1	615.4
17.5°	1901.6	1757.6	1319.5	878.1	653.4	600.0	589.4	592.0	595.4	594.7	593.4
20°	2003.0	1812.3	1233.5	757.5	590.7	565.4	559.4	562.1	564.8	563.4	562.7
22.5°	2118.3	1870.9	1138.2	663.4	548.8	533.4	526.7	527.4	527.4	524.7	523.4
25°	2256.3	1935.6	1038.1	596.8	516.7	504.7	496.7	494.0	490.1	482.1	480.7
27.5°	2421.0	2004.3	942.2	550.1	491.4	480.1	470.8	464.0	454.1	440.7	439.4
30°	2606.4	2087.6	860.8	520.7	471.4	460.0	449.4	439.4	424.8	408.1	406.7
32.5°	2824.4	2177.0	801.4	501.4	453.4	441.4	428.8	416.8	400.7	384.1	384.7
35°	3084.4	2285.0	766.8	488.1	439.4	423.4	409.4	396.1	384.1	369.4	368.1
37.5°	3366.5	2399.6	756.1	481.4	430.1	405.4	389.4	380.1	378.7	370.0	369.4
40°	3675.1	2535.6	764.1	477.4	420.0	388.1	370.7	368.7	372.1	356.7	357.4
42.5°	4001.9	2697.1	777.5	472.7	406.1	370.7	354.0	354.0	351.4	330.0	330.0
45°	4355.2	2883.0	790.8	461.4	389.4	353.4	340.7	336.1	324.7	304.0	303.4
47.5°	4711.3	3072.4	800.7	440.7	369.4	338.8	327.4	316.7	300.0	281.4	280.7
50°	5049.4	3242.5	790.1	410.1	346.8	324.7	312.7	298.1	280.0	267.3	265.4
52.5°	5351.4	3389.8	744.8	374.0	322.7	310.1	299.4	284.0	269.4	256.0	254.7
55°	5614.1	3509.2	664.7	340.1	301.3	297.4	286.7	267.3	247.3	236.1	234.7
57.5°	5866.2	3599.8	564.8	312.0	282.1	283.4	267.3	250.0	231.3	219.4	218.0
60°	6201.6	3721.2	463.4	286.1	261.4	265.4	248.0	235.3	212.1	196.7	194.6
62.5°	6737.6	3909.9	368.1	254.0	237.4	238.7	231.3	216.1	188.0	170.0	168.7
65°	7163.0	3840.6	290.1	219.4	210.0	212.1	212.1	195.4	165.3	144.7	142.7
67.5°	7115.0	3288.5	231.3	185.3	184.0	185.3	190.0	176.0	146.7	130.0	127.3
70°	6554.3	2615.7	185.3	154.1	160.0	156.7	170.0	160.7	132.0	115.3	113.4
72.5°	5348.0	1884.3	141.3	127.3	122.7	128.0	153.3	144.7	110.0	91.3	89.4
75°	3125.1	1005.4	105.4	100.7	88.7	106.7	136.0	123.3	84.0	67.3	65.3
77.5°	1017.5	350.8	77.4	74.0	66.0	86.0	116.0	104.0	68.7	53.3	51.4
80°	272.8	106.0	52.7	48.7	42.6	64.0	92.0	82.7	49.3	34.6	34.0
82.5°	109.4	44.7	30.6	27.4	23.4	44.0	72.7	66.6	36.7	22.0	22.0
85°	35.4	14.7	11.4	8.7	10.7	27.4	43.4	45.3	26.0	11.4	8.7
87.5°	4.7	2.0	2.0	2.7	2.0	4.7	13.3	12.7	7.4	1.3	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)