

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: P882549

Luminaire Tested: **NAV-SB2C-722-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882549  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2C-722-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12171 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

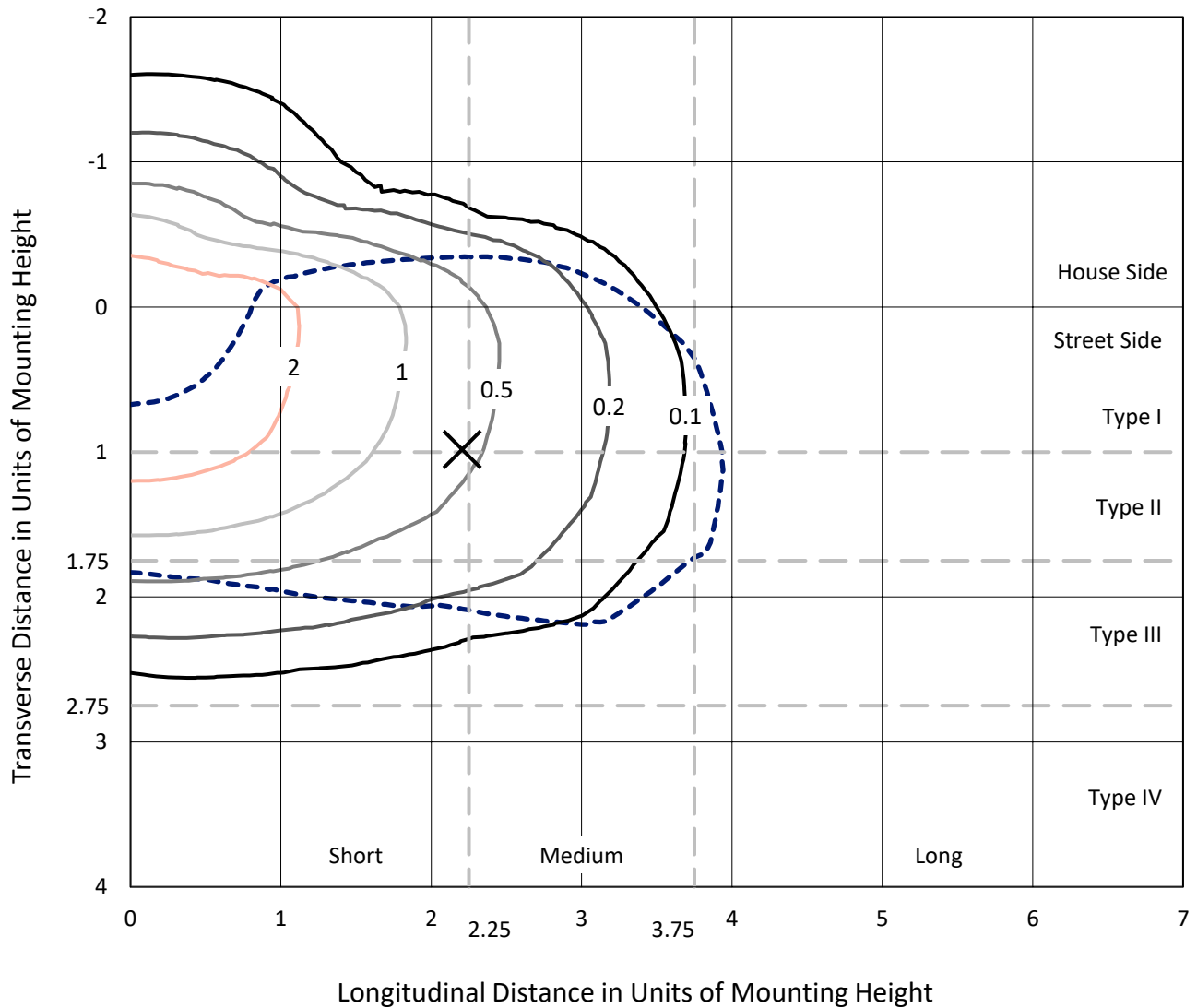
Input Watts (W): 100.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.857  
Voltage Rise (V): NR  
Power Factor: 0.994  
Total Harmonic Distortion (THDi): 9.472  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

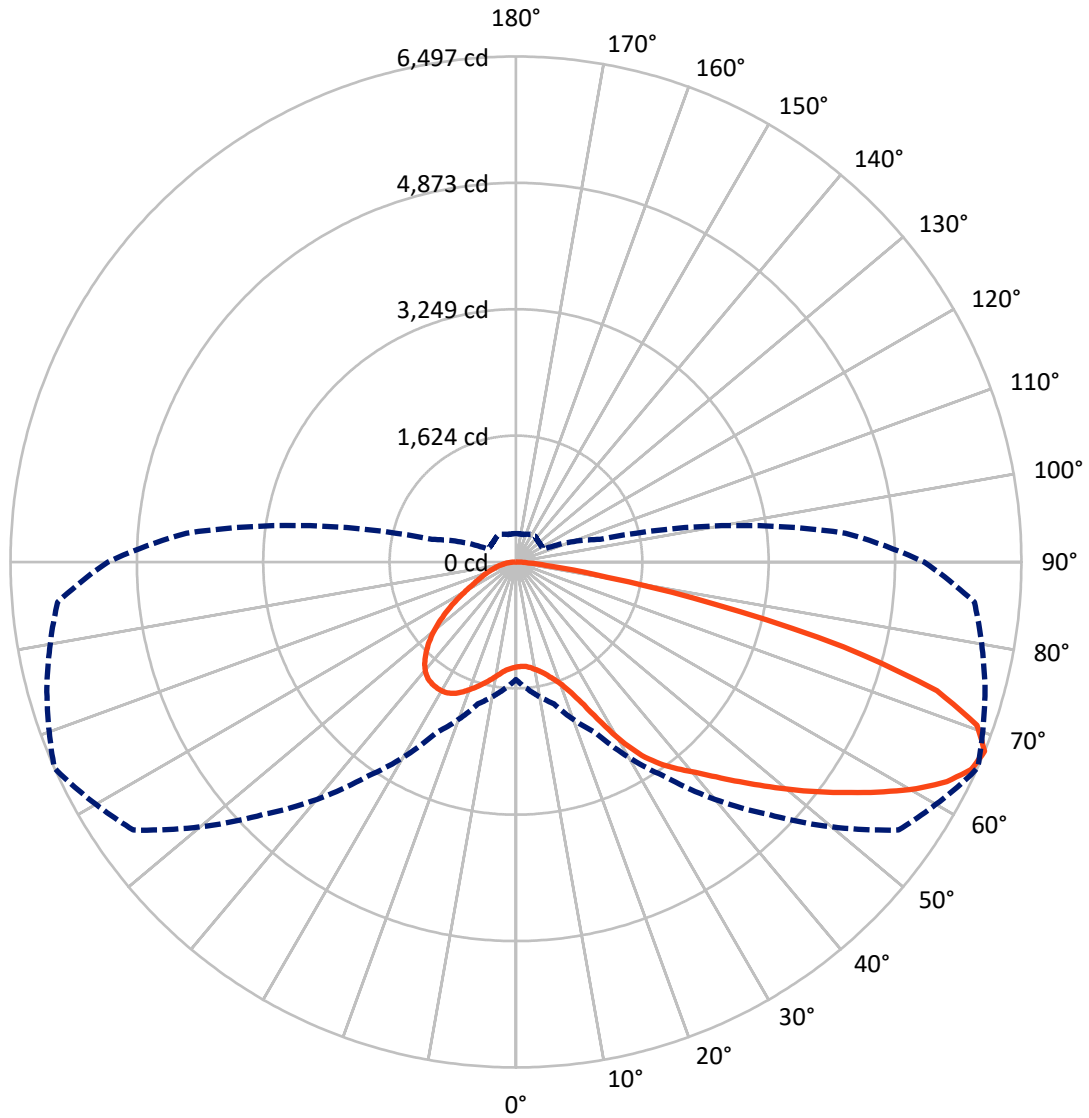
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3026.3	0.0	3026.3
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	9144.7	0.0	9144.7
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	12171.0	0.0	12171.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.8	1.1
10°-20°	442.2	3.6
20°-30°	852.3	7.0
30°-40°	1494.4	12.3
40°-50°	2221.7	18.3
50°-60°	2816.2	23.1
60°-70°	2755.6	22.6
70°-80°	1314.4	10.8
80°-90°	140.5	1.2
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°	12171.0	100.0
0°-180°	12171.0	100.0

**Coefficient of Utilization**



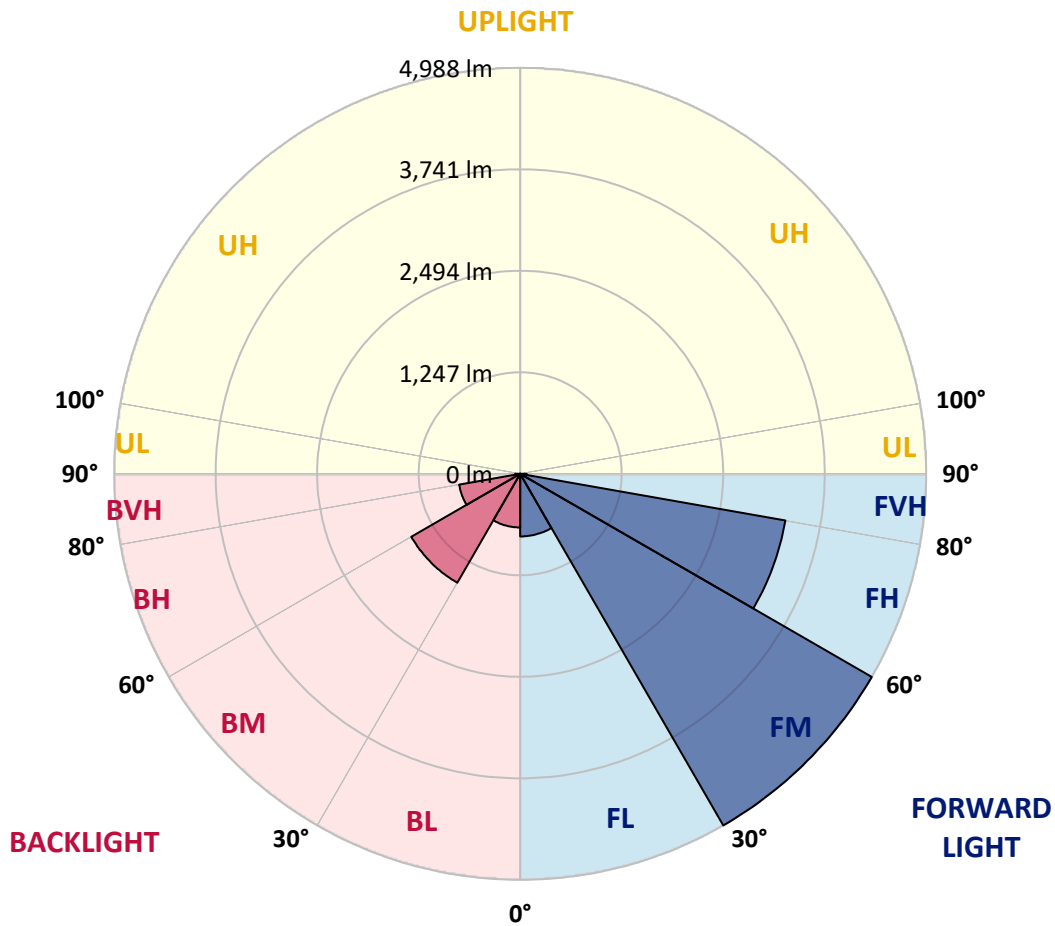
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	769.1	6.3			
FM (30°-60°)	4987.6	41.0			
FH (60°-80°)	3308.4	27.2			G2/5000
FVH (80°-90°)	79.6	0.7			G1/100
BL (0°-30°)	659.2	5.4	B2/1000		
BM (30°-60°)	1544.7	12.7	B2/2500		
BH (60°-80°)	761.6	6.3	B2/1000		G2/1000
BVH (80°-90°)	60.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1349.9	1349.9	1349.9	1349.9	1349.9	1349.9	1349.9	1349.9	1349.9	1349.9	1349.9
2.5°	1335.9	1343.5	1341.6	1338.4	1337.8	1339.1	1341.0	1342.9	1342.3	1345.4	1350.6
5°	1332.0	1339.7	1339.1	1339.1	1341.6	1346.7	1349.9	1353.1	1349.9	1353.8	1360.8
7.5°	1334.6	1340.3	1342.9	1345.4	1351.8	1361.4	1369.1	1376.1	1372.3	1376.8	1385.7
10°	1367.2	1371.7	1374.2	1374.2	1378.7	1389.6	1397.2	1410.0	1406.8	1413.9	1425.4
12.5°	1426.7	1431.1	1431.1	1428.6	1431.8	1438.8	1441.4	1455.4	1449.7	1461.2	1472.7
15°	1499.6	1508.5	1501.5	1497.0	1498.3	1505.3	1504.7	1515.5	1509.8	1519.4	1529.6
17.5°	1580.1	1591.6	1580.1	1579.5	1576.9	1584.6	1585.3	1594.8	1584.6	1591.6	1598.7
20°	1675.4	1691.4	1681.8	1685.0	1679.3	1682.5	1685.6	1699.7	1683.7	1688.8	1686.9
22.5°	1809.7	1828.9	1818.7	1830.8	1827.0	1824.4	1823.8	1848.7	1823.8	1825.7	1807.1
25°	2005.4	2028.4	2010.5	2027.1	2027.1	2035.4	2045.0	2077.0	2035.4	2023.3	1975.3
27.5°	2294.4	2317.4	2282.3	2292.5	2289.3	2309.8	2299.5	2378.8	2334.1	2314.2	2217.7
30°	2642.3	2683.2	2616.7	2614.2	2611.0	2643.6	2658.3	2710.7	2665.3	2645.5	2529.1
32.5°	3018.3	3061.2	2981.9	2958.8	2946.7	2966.5	2954.4	2996.6	2965.2	2934.5	2790.7
35°	3416.1	3458.3	3382.8	3338.0	3289.4	3247.9	3204.4	3215.3	3185.8	3139.2	2990.2
37.5°	3792.1	3869.4	3789.5	3741.5	3652.0	3570.8	3449.3	3398.8	3371.3	3328.5	3178.2
40°	4175.1	4219.2	4158.5	4117.6	4020.4	3893.1	3698.7	3591.9	3554.8	3513.3	3386.0
42.5°	4457.1	4499.3	4466.7	4438.6	4362.5	4214.8	3963.4	3829.8	3776.1	3729.4	3621.3
45°	4680.9	4712.3	4691.8	4702.0	4669.4	4526.2	4237.8	4084.9	4029.3	3972.4	3887.3
47.5°	4771.1	4804.4	4837.0	4897.7	4953.3	4847.8	4532.6	4361.2	4302.4	4244.2	4160.4
50°	4760.9	4794.8	4889.4	5018.6	5191.2	5156.1	4843.4	4655.4	4601.0	4534.5	4457.1
52.5°	4679.0	4717.4	4838.9	5053.7	5328.7	5386.9	5159.9	4959.1	4907.9	4828.7	4751.3
55°	4464.2	4487.2	4669.4	4973.8	5361.3	5548.1	5470.0	5282.7	5231.5	5120.9	5036.5
57.5°	4065.8	4099.0	4364.4	4758.3	5279.5	5657.4	5742.5	5622.9	5573.6	5414.4	5326.2
60°	3545.9	3598.9	3902.7	4396.4	5071.0	5656.8	5989.9	5957.3	5916.4	5703.4	5611.4
62.5°	2957.6	3018.9	3311.2	3884.8	4706.5	5496.3	6144.7	6237.4	6216.3	5970.1	5852.4
65°	2271.4	2313.6	2604.6	3222.9	4139.3	5151.6	6162.6	6428.6	6432.4	6172.8	5978.4
67.5°	1512.4	1633.9	1886.4	2418.5	3379.6	4588.2	6005.3	6459.9	6497.0	6242.5	5915.1
70°	738.0	897.8	1145.3	1571.8	2418.5	3724.3	5594.1	6202.9	6285.4	6039.2	5537.8
72.5°	306.3	358.1	493.0	775.7	1388.3	2513.1	4767.9	5505.9	5658.7	5351.1	4656.0
75°	206.5	223.8	282.0	397.8	632.4	1239.3	3438.4	4105.4	4351.6	4041.5	3303.5
77.5°	159.2	170.1	205.3	278.2	376.0	468.7	1840.4	2474.1	2601.4	2408.3	1718.9
80°	125.3	133.6	153.5	202.7	266.7	250.7	627.3	1121.0	1194.5	1002.1	552.5
82.5°	108.7	111.9	110.0	137.5	177.1	146.4	205.9	413.7	456.6	331.2	180.3
85°	78.7	87.6	91.4	85.0	94.0	74.2	84.4	146.4	161.1	143.9	101.7
87.5°	32.0	47.3	58.2	55.0	34.5	21.1	26.2	42.8	49.2	53.7	33.3
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°	1349.9	1349.9	1349.9	1349.9	1349.9	1349.9	1349.9	1349.9	1349.9	1349.9	1349.9
2.5°	1351.2	1355.7	1358.9	1362.7	1365.3	1369.1	1376.8	1381.3	1381.9	1385.1	1384.5
5°	1363.4	1369.7	1376.8	1387.0	1398.5	1408.1	1422.8	1433.1	1436.9	1440.1	1439.5
7.5°	1389.6	1398.5	1411.3	1429.2	1445.8	1458.6	1476.5	1488.7	1500.8	1505.3	1506.0
10°	1428.6	1441.4	1459.9	1484.2	1502.1	1518.7	1537.3	1547.5	1559.7	1564.8	1567.3
12.5°	1477.2	1490.6	1514.9	1548.8	1565.4	1576.9	1583.3	1580.8	1583.3	1587.8	1589.1
15°	1532.8	1547.5	1575.0	1611.5	1623.0	1612.7	1598.7	1585.9	1584.0	1585.3	1589.7
17.5°	1598.7	1609.6	1641.5	1672.2	1663.9	1621.7	1591.0	1570.5	1560.3	1557.1	1561.6
20°	1690.8	1690.8	1717.0	1736.2	1680.5	1608.9	1561.0	1527.7	1506.6	1497.6	1495.7
22.5°	1802.7	1792.4	1809.1	1795.6	1677.3	1573.1	1506.6	1449.0	1417.1	1404.3	1402.4
25°	1944.6	1932.5	1928.0	1844.9	1654.3	1516.2	1408.1	1338.4	1310.3	1303.2	1304.5
27.5°	2158.9	2128.2	2070.0	1871.7	1612.1	1426.7	1293.0	1228.4	1212.4	1213.1	1215.0
30°	2444.1	2382.7	2240.1	1876.2	1543.0	1300.0	1175.3	1129.3	1121.6	1124.8	1135.7
32.5°	2708.2	2650.0	2414.0	1855.7	1436.9	1176.0	1069.8	1039.1	1027.6	1031.5	1036.6
35°	2915.4	2899.4	2575.2	1827.0	1306.4	1059.6	975.2	949.0	926.6	921.5	925.3
37.5°	3111.0	3104.6	2696.0	1786.7	1177.3	977.1	899.1	864.6	832.0	814.0	814.7
40°	3325.9	3319.5	2775.3	1724.7	1062.8	905.5	830.7	785.3	745.0	712.4	715.6
42.5°	3567.6	3529.9	2813.0	1635.8	965.6	844.7	775.0	713.7	660.6	630.5	632.4
45°	3831.7	3746.7	2812.4	1522.6	883.7	789.1	715.6	628.6	579.4	551.2	549.9
47.5°	4111.8	3953.9	2777.9	1397.2	804.5	727.7	623.5	557.0	524.4	507.1	503.3
50°	4400.8	4147.6	2719.0	1253.4	723.2	658.0	565.9	520.5	495.6	479.6	473.8
52.5°	4672.6	4323.5	2648.1	1090.3	640.8	590.2	540.4	505.2	479.0	461.1	453.4
55°	4925.2	4475.0	2547.7	923.4	573.6	544.8	528.2	498.8	468.7	447.6	439.3
57.5°	5149.7	4573.5	2374.4	766.7	525.6	513.5	515.4	487.9	453.4	435.5	424.0
60°	5336.4	4645.8	2117.9	621.6	486.6	482.8	495.6	467.5	427.2	406.7	397.8
62.5°	5448.3	4644.5	1803.3	509.0	453.4	454.7	469.4	441.9	400.9	381.8	376.0
65°	5438.7	4530.7	1458.0	435.5	421.4	422.7	441.9	413.7	379.2	367.7	367.1
67.5°	5246.2	4253.1	1118.4	387.5	386.2	392.0	414.4	394.6	365.8	364.5	366.4
70°	4725.1	3677.0	805.7	349.2	349.8	358.1	387.5	382.4	358.7	361.3	360.7
72.5°	3788.9	2803.4	541.0	308.9	309.5	322.9	361.9	372.8	351.7	385.6	390.7
75°	2523.4	1748.3	347.9	266.0	266.7	283.9	339.6	354.3	332.5	384.3	387.5
77.5°	1212.4	785.9	252.0	223.8	223.8	239.8	293.5	317.2	283.3	298.6	273.7
80°	418.9	295.4	198.2	180.3	176.5	187.4	247.5	275.0	244.3	225.1	211.0
82.5°	165.0	153.5	159.2	140.0	127.3	134.3	192.5	227.0	179.7	162.4	161.8
85°	94.6	99.8	112.5	92.7	73.5	82.5	141.3	163.1	135.6	119.6	122.1
87.5°	25.6	35.2	51.8	48.0	33.3	35.2	67.1	90.2	78.0	60.1	62.0
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)