

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: P962583

Luminaire Tested: **NAV-SB2C-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962583
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-827-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 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: 9747.8 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - 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



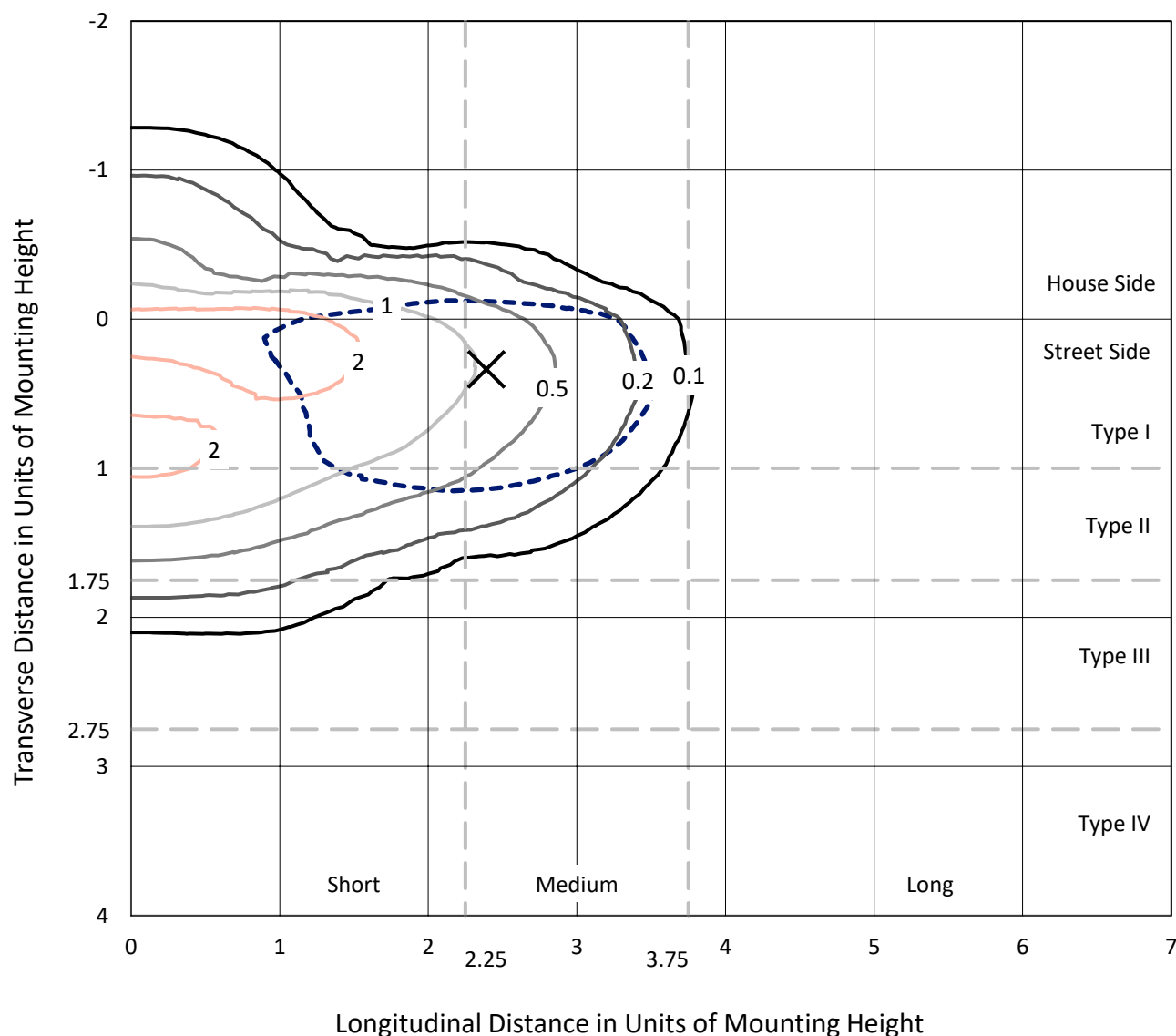
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

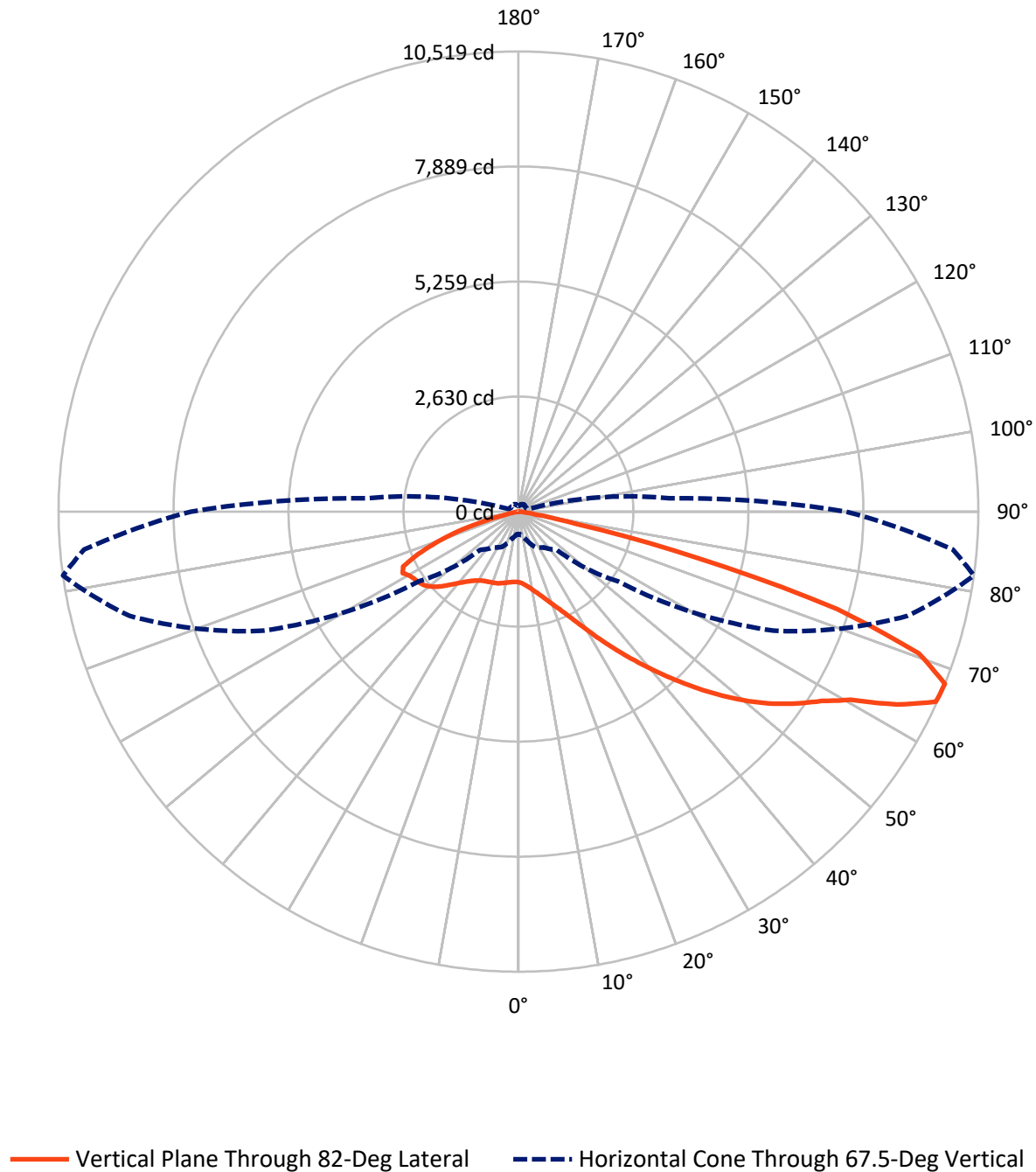


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1765.7	0.0	1765.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	7982.0	0.0	7982.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	9747.8	0.0	9747.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.9	1.5
10°-20°	373.9	3.8
20°-30°	598.8	6.1
30°-40°	1058.9	10.9
40°-50°	1855.3	19.0
50°-60°	2474.4	25.4
60°-70°	2303.6	23.6
70°-80°	884.1	9.1
80°-90°	54.9	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°	9747.8	100.0
0°-180°	9747.8	100.0

Coefficient of Utilization



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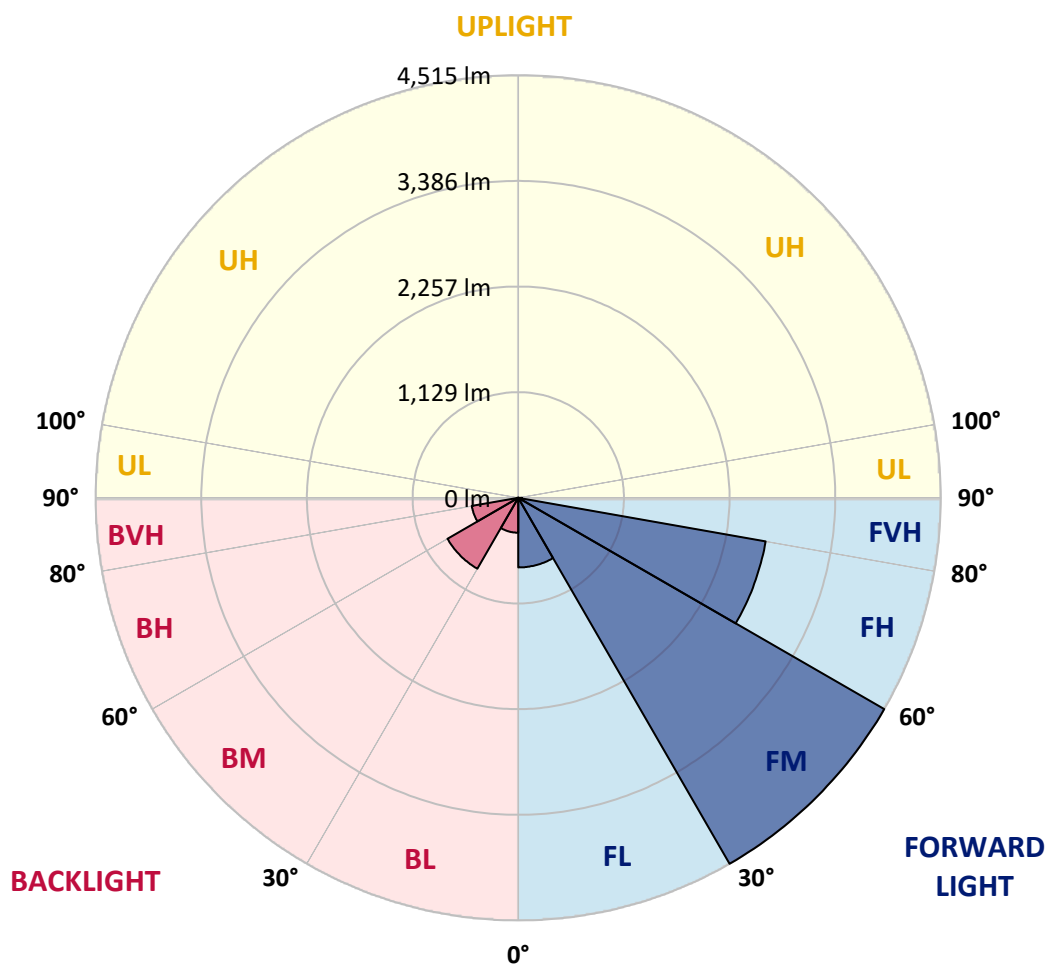
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	743.6	7.6			
FM	(30°-60°)	4514.8	46.3			
FH	(60°-80°)	2683.7	27.5			G2/5000
FVH	(80°-90°)	39.9	0.4			G1/100
BL	(0°-30°)	372.9	3.8	B1/500		
BM	(30°-60°)	873.8	9.0	B1/1000		
BH	(60°-80°)	504.0	5.2	B2/1000		G2/1000
BVH	(80°-90°)	15.0	0.2			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1614.9	1614.9	1614.9	1614.9	1614.9	1614.9	1614.9	1614.9	1614.9	1614.9	1614.9
2.5°	1706.8	1716.7	1711.0	1708.2	1703.3	1696.3	1690.6	1673.1	1654.9	1643.0	1638.8
5°	1741.2	1751.0	1750.3	1753.2	1756.6	1758.7	1757.4	1737.7	1711.7	1691.4	1679.5
7.5°	1711.7	1722.9	1732.0	1746.1	1770.7	1796.6	1809.2	1805.0	1778.4	1750.3	1735.6
10°	1628.2	1640.1	1661.9	1694.8	1746.8	1803.0	1850.0	1871.8	1854.9	1824.0	1803.7
12.5°	1475.2	1487.2	1529.9	1601.6	1688.6	1786.2	1876.0	1934.2	1938.4	1907.5	1883.6
15°	1303.3	1315.2	1360.8	1450.7	1583.3	1739.8	1890.0	2000.2	2037.4	2010.7	1981.9
17.5°	1196.6	1207.1	1241.5	1313.8	1452.0	1647.2	1885.1	2070.4	2155.3	2134.3	2099.8
20°	1164.3	1173.4	1189.6	1240.1	1355.2	1551.0	1852.8	2136.3	2282.3	2270.4	2231.7
22.5°	1198.7	1207.1	1212.1	1234.5	1306.8	1487.9	1812.1	2203.6	2429.7	2431.1	2384.0
25°	1278.0	1286.4	1280.8	1294.9	1326.5	1468.2	1796.6	2283.0	2615.0	2630.4	2577.1
27.5°	1408.6	1409.3	1395.9	1395.2	1400.1	1497.6	1812.8	2368.0	2848.7	2877.5	2811.5
30°	1670.3	1659.8	1608.5	1553.1	1527.9	1586.1	1857.7	2468.3	3124.5	3175.7	3092.9
32.5°	2073.9	2058.4	1964.4	1831.8	1698.4	1728.6	1938.4	2582.7	3424.8	3517.5	3416.4
35°	2511.8	2507.6	2409.4	2212.2	1979.1	1931.4	2069.7	2732.9	3752.6	3900.0	3780.0
37.5°	2918.9	2916.7	2860.6	2628.3	2344.8	2214.2	2280.2	2929.3	4103.5	4316.9	4175.1
40°	3290.8	3297.1	3240.9	3033.3	2747.6	2577.1	2566.5	3172.2	4493.7	4771.0	4602.5
42.5°	3612.2	3619.3	3562.4	3408.7	3145.5	2978.4	2918.2	3469.7	4874.8	5258.7	5059.4
45°	3830.5	3874.0	3865.6	3742.8	3554.0	3380.7	3340.7	3843.1	5309.2	5775.9	5542.2
47.5°	3892.2	3932.3	3995.4	4012.3	3897.2	3726.6	3774.4	4293.0	5748.5	6293.9	6027.9
50°	3739.9	3777.1	3908.4	4083.2	4163.1	4110.6	4196.1	4775.2	6198.4	6810.4	6504.4
52.5°	3439.6	3477.5	3643.2	3919.6	4246.0	4411.6	4619.4	5250.3	6634.2	7299.5	6955.6
55°	3005.2	3045.2	3257.9	3570.8	4088.1	4535.8	4972.4	5724.7	7033.6	7739.6	7362.7
57.5°	2414.3	2443.7	2664.8	3102.7	3690.8	4412.3	5232.7	6242.7	7409.7	8171.9	7766.2
60°	1573.5	1599.4	1856.3	2344.8	3032.6	3999.7	5284.7	6820.2	7909.4	8734.0	8310.2
62.5°	1046.4	1063.9	1216.3	1574.9	2135.6	3207.3	4980.8	7281.3	8642.1	9712.4	9242.8
65°	717.9	735.5	887.8	1137.6	1379.8	2121.5	4107.0	7220.3	9306.1	10489.3	9934.2
67.5°	512.3	527.1	656.2	892.0	998.7	1232.4	2784.1	6439.9	9210.5	10518.8	9971.4
70°	367.1	375.5	482.2	694.7	793.8	740.5	1548.2	4925.3	8064.5	9713.1	9212.0
72.5°	256.9	259.6	334.8	529.2	639.4	540.4	736.9	3283.8	6099.5	7623.8	7141.7
75°	174.0	177.5	225.3	388.1	513.0	412.7	390.2	1760.8	3580.6	4220.0	3782.8
77.5°	106.7	108.0	145.2	265.3	383.9	314.4	251.2	746.0	1385.4	1360.1	1159.4
80°	60.4	60.4	92.7	164.9	261.8	202.8	176.2	317.2	438.6	385.3	339.7
82.5°	33.7	34.4	67.3	102.5	173.3	120.0	96.9	146.7	189.5	167.7	146.0
85°	14.0	15.5	41.4	48.4	82.8	59.7	39.3	61.8	70.2	62.4	45.6
87.5°	1.4	2.2	12.6	9.1	9.8	11.9	5.6	11.9	9.8	9.8	7.0
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°	1614.9	1614.9	1614.9	1614.9	1614.9	1614.9	1614.9	1614.9	1614.9	1614.9	1614.9
2.5°	1625.4	1614.9	1588.2	1557.3	1516.6	1497.0	1470.3	1452.0	1436.6	1438.0	1423.9
5°	1657.0	1630.3	1570.6	1496.3	1403.6	1337.6	1267.5	1219.0	1179.8	1171.4	1152.4
7.5°	1700.5	1658.3	1553.8	1419.7	1263.3	1144.6	1038.6	970.6	922.2	906.7	891.3
10°	1756.6	1695.6	1532.1	1323.6	1098.3	947.4	833.7	780.4	747.4	736.2	727.7
12.5°	1821.9	1738.4	1503.3	1206.4	928.5	783.2	710.9	684.3	673.7	670.2	668.1
15°	1904.0	1791.7	1459.8	1067.4	784.6	682.9	652.0	648.5	649.8	648.5	647.8
17.5°	2001.6	1850.0	1388.9	924.2	687.8	631.6	620.4	623.2	626.7	626.0	624.6
20°	2108.2	1907.5	1298.4	797.2	621.8	595.1	588.9	591.6	594.4	593.1	592.3
22.5°	2229.7	1969.3	1198.0	698.3	577.6	561.5	554.4	555.1	555.1	552.4	550.9
25°	2374.9	2037.4	1092.8	628.1	543.9	531.3	522.9	520.1	515.9	507.4	506.0
27.5°	2548.3	2109.7	991.7	579.0	517.2	505.3	495.5	488.4	478.0	463.9	462.5
30°	2743.4	2197.4	906.0	548.1	496.2	484.2	473.0	462.5	447.1	429.5	428.1
32.5°	2972.9	2291.4	843.6	527.8	477.2	464.6	451.3	438.6	421.8	404.3	405.0
35°	3246.6	2405.2	807.1	513.7	462.5	445.7	430.9	416.9	404.3	388.8	387.4
37.5°	3543.4	2525.8	795.8	506.8	452.6	426.7	409.9	400.1	398.6	389.5	388.8
40°	3868.3	2669.0	804.3	502.5	442.2	408.5	390.2	388.1	391.7	375.5	376.2
42.5°	4212.2	2838.8	818.4	497.5	427.4	390.2	372.7	372.7	369.8	347.4	347.4
45°	4584.2	3034.6	832.3	485.6	409.9	372.0	358.6	353.7	341.7	320.0	319.3
47.5°	4959.1	3234.0	842.9	463.9	388.8	356.5	344.6	333.3	315.8	296.1	295.5
50°	5314.8	3412.9	831.7	431.6	364.9	341.7	329.1	313.8	294.8	281.5	279.3
52.5°	5632.8	3568.0	783.9	393.7	339.7	326.4	315.1	299.0	283.5	269.5	268.1
55°	5909.2	3693.7	699.7	357.9	317.2	313.0	301.8	281.5	260.3	248.5	247.0
57.5°	6174.6	3789.1	594.4	328.4	296.8	298.3	281.5	263.2	243.5	230.9	229.5
60°	6527.6	3916.8	487.8	301.0	275.1	279.3	261.1	247.7	223.1	207.0	204.9
62.5°	7091.9	4115.5	387.4	267.4	249.9	251.2	243.5	227.3	197.9	179.0	177.5
65°	7539.6	4042.4	305.2	230.9	221.1	223.1	223.1	205.6	174.0	152.3	150.2
67.5°	7489.1	3461.3	243.5	195.1	193.7	195.1	200.0	185.3	154.4	136.8	134.1
70°	6898.9	2753.3	195.1	162.2	168.4	164.9	179.0	169.1	139.0	121.5	119.3
72.5°	5629.2	1983.4	148.8	134.1	129.1	134.8	161.4	152.3	115.8	96.1	94.0
75°	3289.4	1058.3	110.9	106.0	93.4	112.3	143.2	129.9	88.5	70.9	68.8
77.5°	1070.9	369.2	81.4	77.9	69.5	90.5	122.1	109.5	72.3	56.2	54.0
80°	287.0	111.6	55.5	51.2	44.9	67.3	96.9	87.0	52.0	36.5	35.8
82.5°	115.1	47.0	32.3	28.8	24.6	46.3	76.5	70.2	38.6	23.2	23.2
85°	37.2	15.5	11.9	9.1	11.3	28.8	45.6	47.8	27.4	11.9	9.1
87.5°	4.9	2.2	2.2	2.8	2.2	4.9	14.0	13.3	7.7	1.4	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)