

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: P882570

Luminaire Tested: **NAV-SB2C-730-U-T4FT-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882570  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2C-730-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

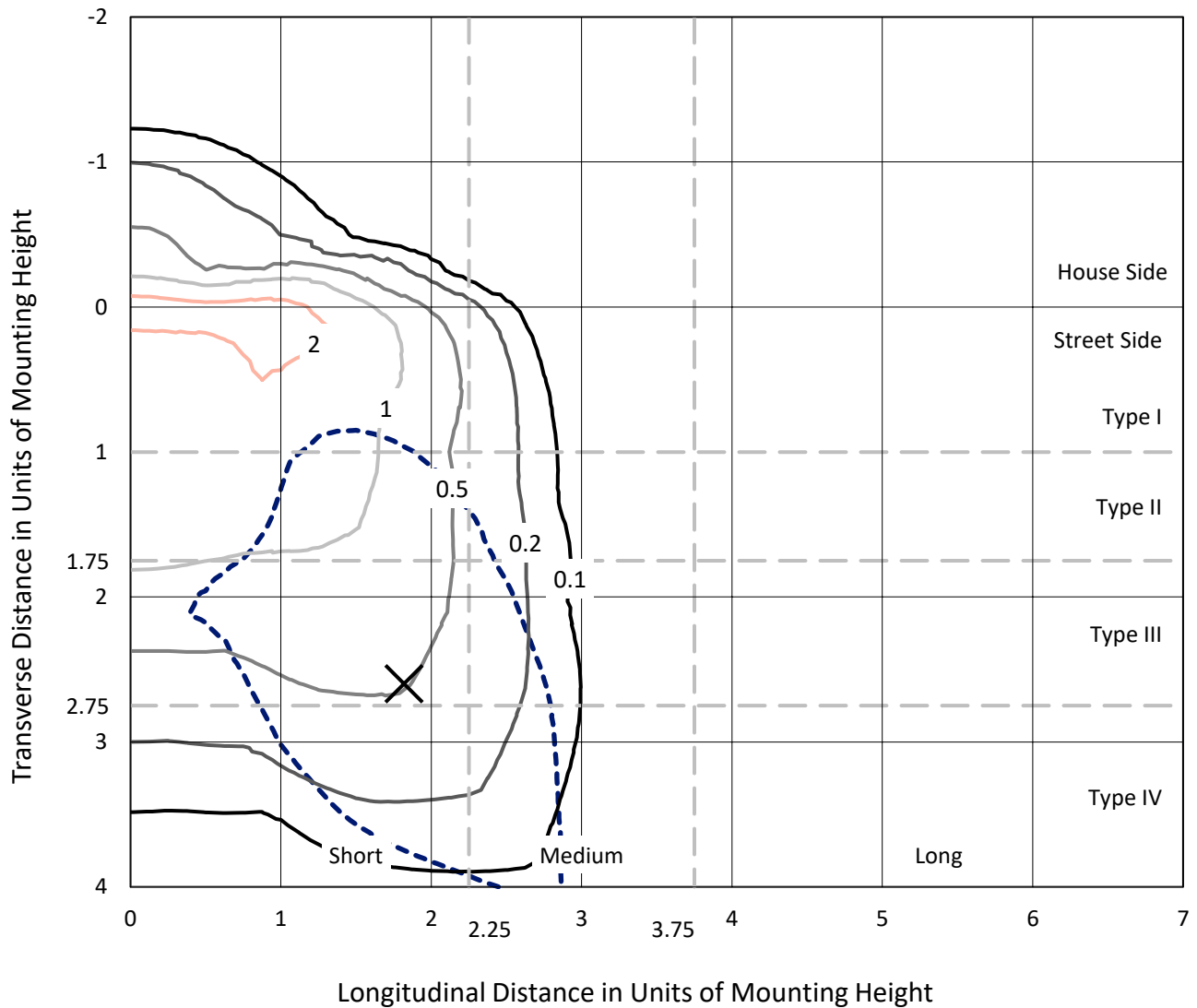
Lumens per Lamp: N/A  
Luminaire Lumens: 11376 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 100.9  
Input Voltage (V): 120.0  
Input Current (Ain): 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

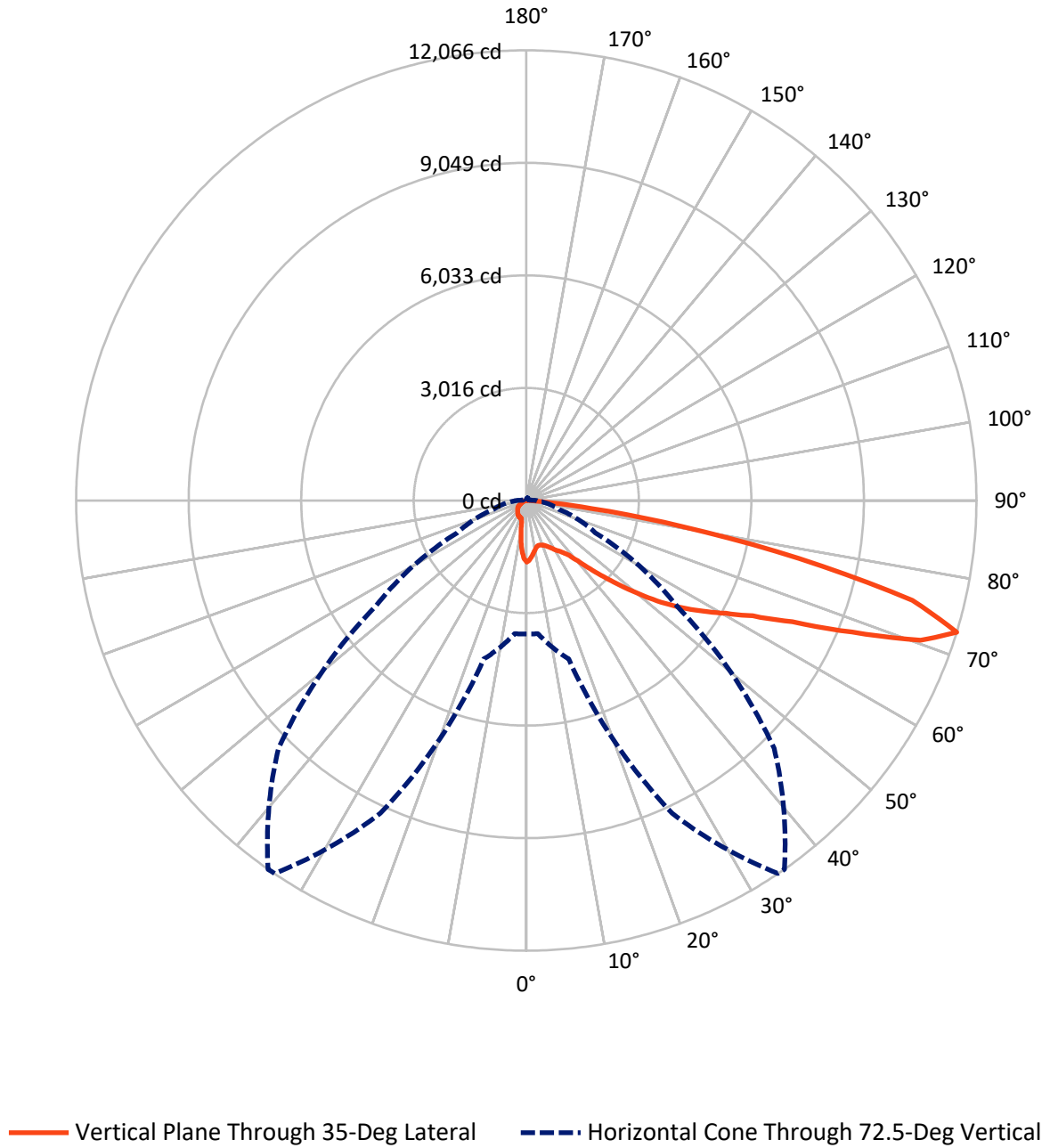
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1280.3	0.0	1280.3
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	10095.7	0.0	10095.7
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	11376.0	0.0	11376.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.5	1.2
10°-20°	317.0	2.8
20°-30°	514.9	4.5
30°-40°	859.1	7.6
40°-50°	1625.4	14.3
50°-60°	2582.7	22.7
60°-70°	3195.0	28.1
70°-80°	1986.0	17.5
80°-90°	160.5	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°	11376.0	100.0
0°-180°	11376.0	100.0

**Coefficient of Utilization**



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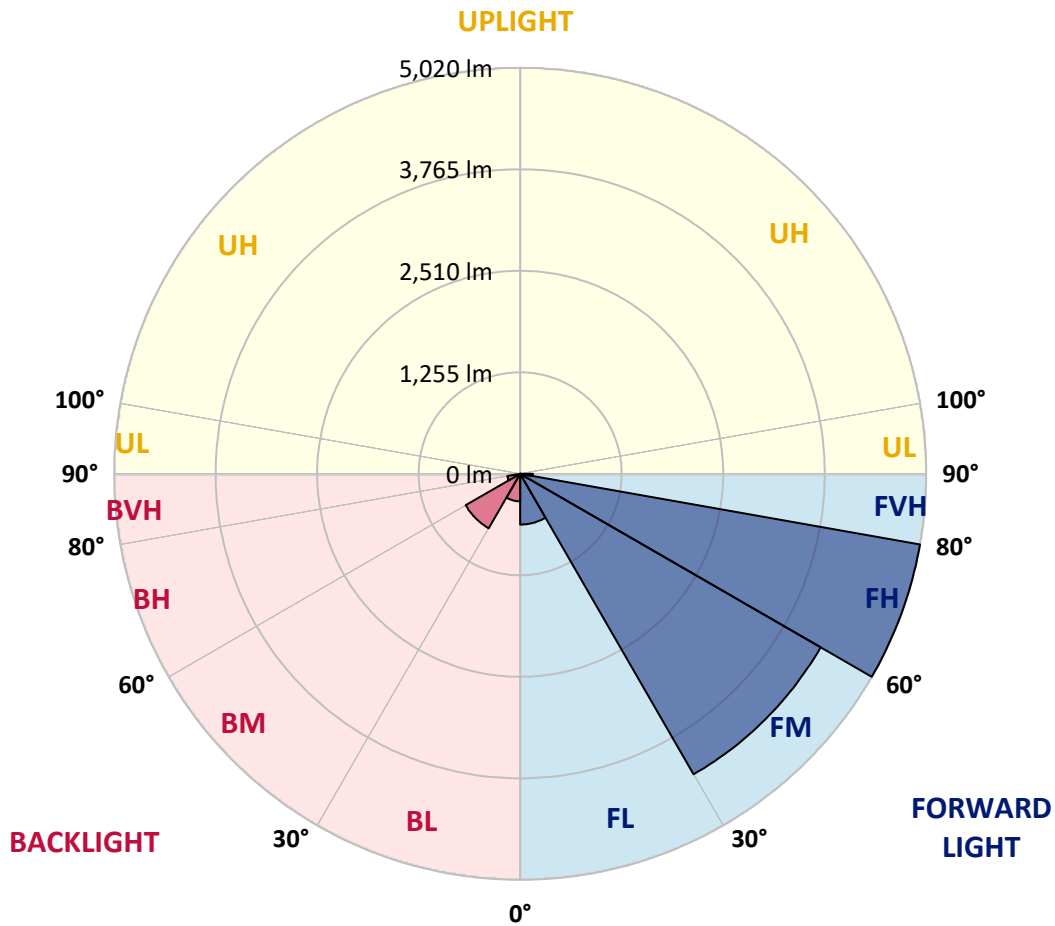
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.1	5.5			
FM (30°-60°)	4289.9	37.7			
FH (60°-80°)	5020.4	44.1			G3/7500
FVH (80°-90°)	158.3	1.4			G2/225
BL (0°-30°)	340.2	3.0	B1/500		
BM (30°-60°)	777.3	6.8	B1/1000		
BH (60°-80°)	160.7	1.4	B1/500		G1/500
BVH (80°-90°)	2.2	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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1648.8	1648.8	1648.8	1648.8	1648.8	1648.8	1648.8	1648.8	1648.8	1648.8	1648.8
2.5°	1575.4	1588.7	1591.2	1595.4	1595.4	1600.4	1608.8	1620.4	1639.6	1649.6	1656.3
5°	1452.0	1462.0	1474.6	1484.6	1503.7	1506.2	1538.7	1570.4	1614.6	1647.9	1671.3
7.5°	1327.8	1339.5	1356.2	1380.4	1405.4	1412.9	1462.0	1515.4	1585.4	1647.9	1687.1
10°	1240.3	1241.2	1256.2	1280.3	1320.3	1329.5	1389.5	1465.4	1552.9	1637.9	1702.1
12.5°	1191.1	1197.0	1203.6	1222.0	1260.3	1266.2	1330.3	1419.5	1520.4	1632.1	1719.6
15°	1191.1	1195.3	1199.5	1208.6	1239.5	1244.5	1301.2	1390.4	1503.7	1634.6	1748.0
17.5°	1203.6	1210.3	1207.0	1217.8	1250.3	1253.7	1303.7	1382.0	1502.9	1650.4	1791.3
20°	1233.7	1238.7	1232.0	1238.7	1271.2	1277.8	1329.5	1397.9	1517.1	1677.9	1845.5
22.5°	1281.2	1283.7	1267.8	1272.8	1306.2	1314.5	1374.5	1442.9	1551.2	1722.1	1918.0
25°	1341.2	1346.2	1322.0	1327.8	1359.5	1369.5	1438.7	1510.4	1605.4	1783.0	2010.5
27.5°	1410.4	1412.9	1392.0	1391.2	1432.0	1446.2	1516.2	1593.7	1677.9	1859.7	2127.2
30°	1489.6	1497.1	1477.1	1473.7	1525.4	1537.1	1606.3	1696.3	1784.6	1974.7	2293.1
32.5°	1552.1	1557.9	1546.2	1554.6	1607.1	1616.3	1715.4	1841.3	1952.2	2138.1	2519.0
35°	1642.1	1645.4	1618.8	1633.8	1693.8	1717.1	1864.7	2044.7	2163.1	2343.1	2814.1
37.5°	1968.0	1968.0	1854.7	1780.5	1838.0	1858.8	2068.9	2300.6	2423.1	2618.2	3185.8
40°	2419.0	2411.5	2245.6	2093.9	2086.4	2127.2	2359.8	2623.2	2759.1	2948.3	3604.3
42.5°	2899.9	2888.3	2662.4	2512.3	2487.3	2501.5	2695.7	3020.8	3159.2	3350.9	4054.4
45°	3326.7	3323.4	3116.6	2914.9	2869.9	2914.9	3115.0	3485.9	3585.1	3786.8	4503.7
47.5°	3684.3	3684.3	3533.4	3401.7	3378.4	3405.1	3682.6	4001.9	3992.7	4251.1	4941.3
50°	4096.1	4092.7	3949.4	3892.7	3916.9	3954.4	4336.1	4545.4	4414.5	4707.1	5332.2
52.5°	4384.5	4404.5	4355.3	4346.1	4469.5	4534.5	4999.6	5077.2	4792.1	5139.7	5624.8
55°	4612.9	4636.2	4692.9	4757.1	4994.6	5079.7	5642.3	5581.5	5108.0	5514.8	5793.2
57.5°	4936.3	4902.9	4990.5	5117.2	5501.4	5604.0	6265.0	6057.4	5362.2	5819.0	5811.5
60°	5328.9	5333.9	5348.9	5508.9	6007.4	6139.1	6878.5	6507.5	5525.6	6005.7	5608.1
62.5°	5800.7	5808.2	5839.0	6084.9	6686.7	6810.9	7532.0	6876.0	5600.6	5953.2	5083.0
65°	5768.2	5799.8	6144.1	6985.2	7719.5	7842.0	8294.7	7134.4	5487.3	5473.1	4138.6
67.5°	5254.7	5306.4	5882.4	8060.4	9276.6	9413.3	9216.6	7185.2	4998.0	4256.1	2699.9
70°	4581.2	4599.5	5292.2	9027.4	11079.6	11217.9	10041.8	6625.9	3792.7	2374.0	1209.5
72.5°	3577.6	3581.8	4394.5	9251.6	12058.1	12065.7	9394.1	4918.8	2039.7	911.9	420.1
75°	2555.7	2530.7	2943.3	7502.8	10608.6	10693.6	7042.7	2307.3	779.4	430.9	209.2
77.5°	1370.4	1397.9	1665.4	4449.5	7328.6	7473.6	3842.7	665.2	396.8	293.4	138.4
80°	423.4	446.8	682.7	2037.2	4151.1	4238.6	1424.5	295.9	276.7	209.2	90.9
82.5°	133.4	138.4	318.4	856.1	1722.9	1763.0	412.6	167.5	189.2	138.4	53.3
85°	38.3	39.2	141.7	319.3	425.9	434.3	115.9	65.0	108.4	85.9	27.5
87.5°	4.2	13.3	53.3	53.3	37.5	36.7	12.5	14.2	30.8	10.8	5.0
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°	1648.8	1648.8	1648.8	1648.8	1648.8	1648.8	1648.8	1648.8	1648.8	1648.8	1648.8
2.5°	1652.1	1652.9	1642.1	1623.8	1603.8	1587.1	1566.2	1549.6	1537.9	1534.6	1540.4
5°	1663.8	1657.9	1627.1	1571.2	1504.6	1447.0	1382.9	1332.0	1298.7	1284.5	1289.5
7.5°	1681.3	1664.6	1597.1	1487.1	1359.5	1246.2	1131.1	1041.9	985.3	956.9	961.1
10°	1696.3	1662.9	1547.1	1365.4	1170.3	998.6	843.6	736.0	676.0	647.7	648.5
12.5°	1710.4	1662.1	1482.1	1221.2	956.9	746.9	602.7	549.3	532.6	526.8	525.1
15°	1737.1	1664.6	1400.4	1056.1	744.4	564.3	511.8	511.0	514.3	512.6	511.8
17.5°	1773.8	1667.1	1307.8	881.1	574.3	497.6	495.1	502.6	507.6	505.1	504.3
20°	1821.3	1677.1	1209.5	707.7	493.5	481.0	486.8	493.5	497.6	493.5	492.6
22.5°	1888.0	1694.6	1102.0	568.5	467.6	471.0	476.0	483.5	487.6	481.8	481.0
25°	1969.7	1722.1	996.1	494.3	455.1	459.3	466.8	475.1	480.1	474.3	473.5
27.5°	2075.5	1766.3	898.6	477.6	442.6	445.1	456.0	468.5	475.1	467.6	467.6
30°	2228.9	1838.8	814.4	485.1	435.1	429.3	444.3	461.8	469.3	462.6	461.8
32.5°	2432.3	1941.3	762.7	496.8	431.8	410.9	425.1	447.6	460.1	456.0	456.0
35°	2699.0	2097.2	742.7	510.1	429.3	391.8	401.8	425.9	447.6	451.8	451.8
37.5°	3022.5	2313.9	748.5	516.0	421.8	375.9	380.9	401.8	430.1	443.4	446.8
40°	3390.1	2566.5	781.9	510.1	413.4	362.6	363.4	379.3	404.3	424.3	430.9
42.5°	3769.3	2861.6	843.6	488.5	405.9	350.9	348.4	359.3	375.9	390.1	395.9
45°	4130.2	3165.0	904.4	458.5	396.8	339.3	333.4	337.6	340.9	346.8	350.1
47.5°	4445.3	3378.4	886.9	430.9	384.3	325.9	315.9	314.2	304.2	303.4	302.6
50°	4662.9	3425.1	787.7	403.4	365.9	310.9	295.1	285.1	267.6	259.2	260.1
52.5°	4732.1	3240.8	643.5	375.9	335.9	290.9	268.4	252.6	230.9	223.4	222.6
55°	4640.4	2879.9	514.3	342.6	294.2	264.2	239.2	218.4	200.9	191.7	191.7
57.5°	4416.2	2420.6	406.8	303.4	250.1	234.2	209.2	188.4	173.4	164.2	162.5
60°	4044.4	1922.2	321.8	256.7	213.4	201.7	175.9	162.5	149.2	138.4	135.9
62.5°	3480.1	1372.0	252.6	203.4	178.4	165.0	150.0	140.0	124.2	109.2	106.7
65°	2715.7	839.4	195.1	149.2	143.4	136.7	127.5	118.4	99.2	84.2	81.7
67.5°	1712.9	397.6	139.2	112.5	113.4	110.0	105.9	98.4	84.2	70.9	69.2
70°	754.4	192.6	91.7	85.9	84.2	84.2	87.5	85.0	71.7	59.2	56.7
72.5°	256.7	103.4	68.4	65.0	60.8	60.0	73.4	70.9	57.5	45.8	43.3
75°	134.2	69.2	50.0	46.7	36.7	44.2	58.3	55.0	40.8	30.0	27.5
77.5°	87.5	49.2	34.2	30.0	20.8	29.2	43.3	38.3	24.2	15.0	13.3
80°	55.0	32.5	20.0	14.2	10.0	15.8	23.3	16.7	9.2	3.3	2.5
82.5°	29.2	16.7	7.5	5.0	4.2	5.0	5.8	4.2	1.7	0.0	0.0
85°	11.7	5.8	2.5	1.7	0.8	0.0	1.7	0.8	0.0	0.0	0.0
87.5°	4.2	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)