

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: P962521

Luminaire Tested: **NAV-SB2C-750-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962521
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-750-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 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: 11860.3 lumens
Efficiency: N/A
Efficacy: 117.5 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



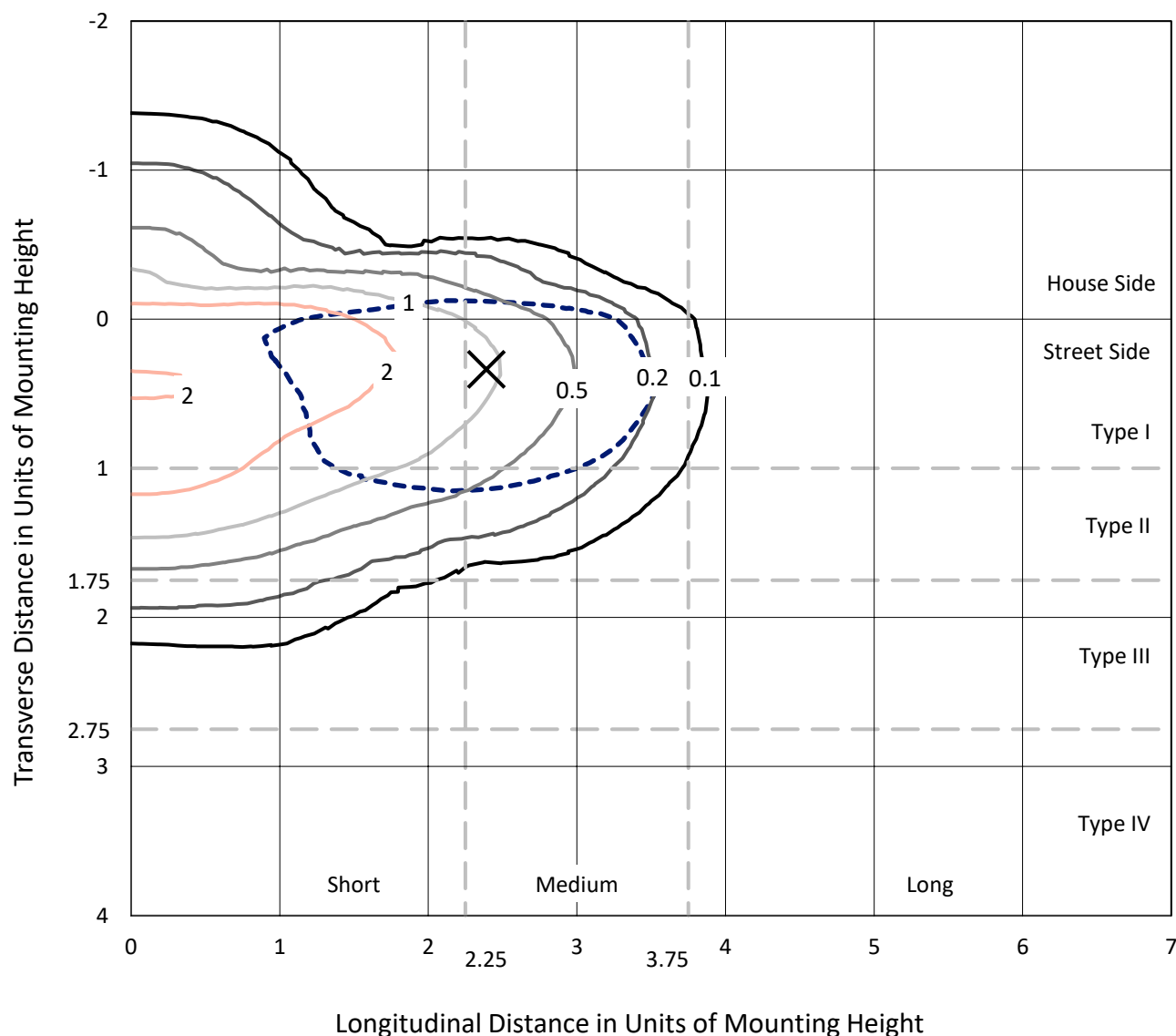
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

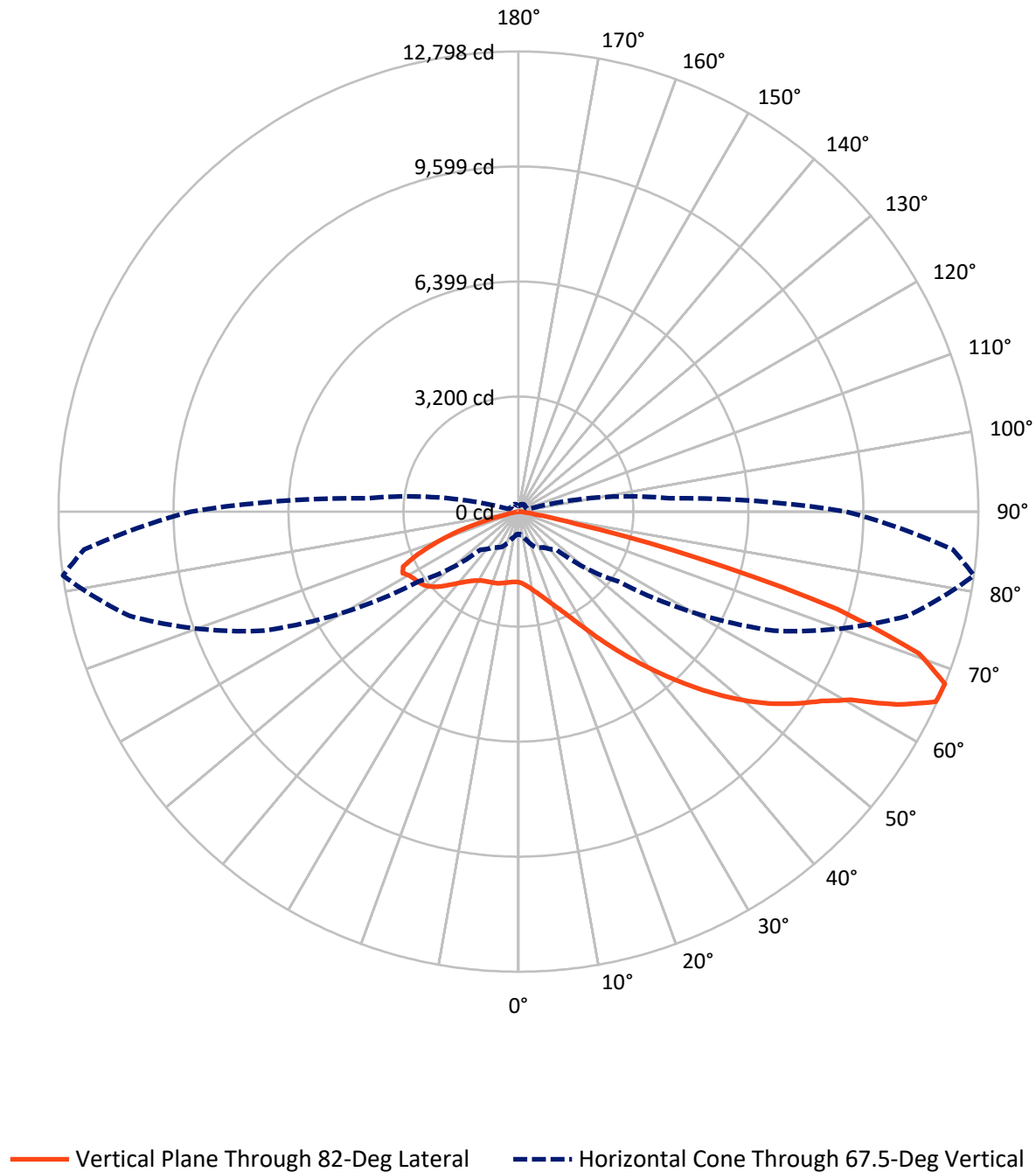
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	2148.4	0.0	2148.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9711.9	0.0	9711.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	11860.3	0.0	11860.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	1.5
10°-20°	454.9	3.8
20°-30°	728.6	6.1
30°-40°	1288.4	10.9
40°-50°	2257.4	19.0
50°-60°	3010.7	25.4
60°-70°	2802.8	23.6
70°-80°	1075.7	9.1
80°-90°	66.8	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°	11860.3	100.0
0°-180°	11860.3	100.0

Coefficient of Utilization



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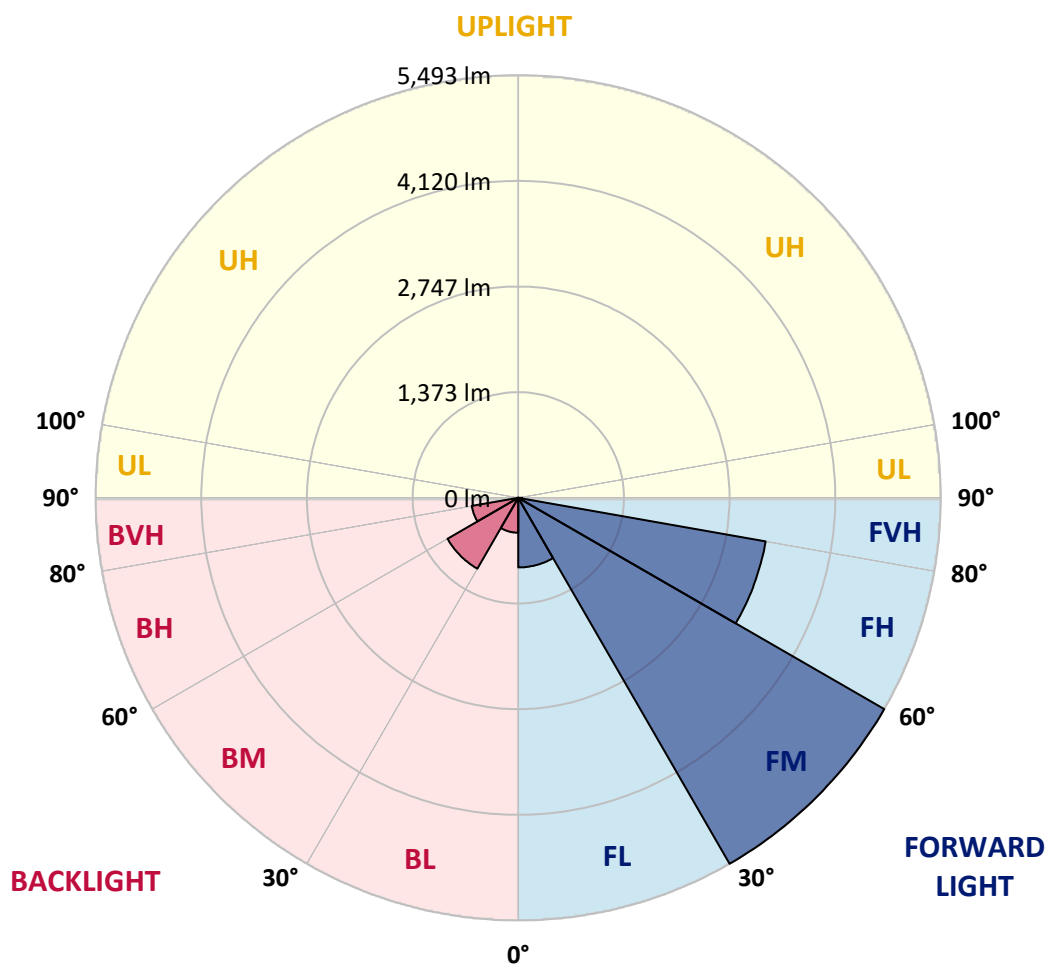
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	904.8	7.6			
FM	(30°-60°)	5493.2	46.3			
FH	(60°-80°)	3265.3	27.5			G2/5000
FVH	(80°-90°)	48.6	0.4			G1/100
BL	(0°-30°)	453.7	3.8	B1/500		
BM	(30°-60°)	1063.2	9.0	B2/2500		
BH	(60°-80°)	613.2	5.2	B2/1000		G2/1000
BVH	(80°-90°)	18.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1964.8	1964.8	1964.8	1964.8	1964.8	1964.8	1964.8	1964.8	1964.8	1964.8	1964.8
2.5°	2076.8	2088.6	2081.9	2078.4	2072.4	2063.9	2057.1	2035.8	2013.5	1999.0	1993.8
5°	2118.6	2130.5	2129.6	2133.0	2137.3	2139.9	2138.1	2114.3	2082.7	2057.9	2043.4
7.5°	2082.7	2096.3	2107.4	2124.5	2154.4	2186.0	2201.4	2196.3	2163.8	2129.6	2111.7
10°	1981.1	1995.6	2022.0	2062.2	2125.3	2193.7	2250.9	2277.3	2256.8	2219.3	2194.5
12.5°	1794.9	1809.4	1861.5	1948.6	2054.5	2173.2	2282.5	2353.4	2358.5	2320.9	2291.9
15°	1585.7	1600.2	1655.7	1765.0	1926.4	2116.8	2299.6	2433.7	2478.9	2446.5	2411.4
17.5°	1455.9	1468.7	1510.5	1598.5	1766.7	2004.1	2293.6	2519.0	2622.4	2596.7	2554.9
20°	1416.7	1427.7	1447.4	1508.9	1648.9	1887.1	2254.3	2599.3	2776.9	2762.4	2715.4
22.5°	1458.5	1468.7	1474.7	1502.0	1590.0	1810.3	2204.8	2681.3	2956.2	2957.9	2900.7
25°	1554.9	1565.2	1558.4	1575.4	1613.9	1786.4	2186.0	2777.7	3181.7	3200.5	3135.6
27.5°	1713.8	1714.6	1698.4	1697.6	1703.6	1822.2	2205.7	2881.1	3466.0	3501.0	3420.7
30°	2032.3	2019.5	1957.1	1889.7	1858.9	1929.9	2260.3	3003.2	3801.6	3863.9	3763.2
32.5°	2523.3	2504.5	2390.1	2228.7	2066.5	2103.2	2358.5	3142.3	4167.0	4279.8	4156.8
35°	3056.1	3051.0	2931.5	2691.5	2408.0	2349.9	2518.2	3325.1	4565.9	4745.1	4599.2
37.5°	3551.4	3548.9	3480.5	3197.9	2852.9	2694.1	2774.4	3564.2	4992.8	5252.4	5079.9
40°	4004.0	4011.6	3943.4	3690.6	3343.0	3135.6	3122.8	3859.6	5467.6	5804.9	5600.0
42.5°	4395.1	4403.6	4334.4	4147.5	3827.2	3624.0	3550.6	4221.8	5931.3	6398.4	6155.8
45°	4660.7	4713.6	4703.3	4553.9	4324.2	4113.3	4064.6	4676.0	6459.9	7027.7	6743.4
47.5°	4735.8	4784.5	4861.3	4881.8	4741.8	4534.3	4592.3	5223.4	6994.4	7657.9	7334.2
50°	4550.5	4595.8	4755.4	4968.1	5065.3	5001.4	5105.5	5810.0	7541.7	8286.3	7914.0
52.5°	4185.0	4231.1	4432.6	4769.1	5166.1	5367.7	5620.4	6388.1	8072.0	8881.5	8463.1
55°	3656.5	3705.1	3963.9	4344.7	4974.0	5518.8	6050.0	6965.4	8557.9	9416.9	8958.4
57.5°	2937.4	2973.3	3242.3	3775.2	4490.7	5368.5	6366.8	7595.6	9015.6	9942.9	9449.4
60°	1914.5	1946.1	2258.6	2852.9	3689.8	4866.4	6429.9	8298.3	9623.5	10626.9	10111.1
62.5°	1273.2	1294.6	1479.8	1916.1	2598.5	3902.4	6060.2	8859.3	10515.1	11817.2	11246.0
65°	873.5	894.9	1080.1	1384.2	1678.7	2581.4	4997.1	8785.1	11322.9	12762.6	12087.1
67.5°	623.4	641.2	798.4	1085.3	1215.1	1499.5	3387.4	7835.5	11206.7	12798.4	12132.3
70°	446.6	456.8	586.6	845.4	965.8	900.9	1883.7	5992.8	9812.3	11818.1	11208.4
72.5°	312.5	315.9	407.3	643.8	777.9	657.5	896.6	3995.4	7421.3	9276.0	8689.3
75°	211.8	216.1	274.1	472.2	624.2	502.1	474.8	2142.5	4356.7	5134.5	4602.6
77.5°	129.8	131.5	176.7	322.8	467.1	382.5	305.7	907.7	1685.6	1654.9	1410.7
80°	73.4	73.4	112.7	200.7	318.5	246.8	214.3	386.0	533.7	468.8	413.3
82.5°	41.0	41.8	82.0	124.6	210.9	146.1	117.9	178.5	230.5	204.1	177.6
85°	17.1	18.8	50.4	58.9	100.8	72.6	47.9	75.1	85.4	76.0	55.6
87.5°	1.7	2.6	15.4	11.1	12.0	14.6	6.9	14.6	12.0	12.0	8.5
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°	1964.8	1964.8	1964.8	1964.8	1964.8	1964.8	1964.8	1964.8	1964.8	1964.8	1964.8
2.5°	1977.6	1964.8	1932.4	1894.8	1845.3	1821.4	1788.9	1766.7	1747.9	1749.7	1732.6
5°	2016.1	1983.7	1911.0	1820.5	1707.9	1627.6	1542.1	1483.3	1435.4	1425.2	1402.1
7.5°	2069.1	2017.8	1890.5	1727.4	1537.0	1392.8	1263.8	1181.0	1122.1	1103.2	1084.4
10°	2137.3	2063.0	1864.1	1610.5	1336.4	1152.8	1014.4	949.6	909.4	895.7	885.5
12.5°	2216.8	2115.1	1829.1	1467.9	1129.8	952.9	865.0	832.6	819.8	815.5	812.9
15°	2316.7	2180.1	1776.1	1298.8	954.7	830.9	793.2	789.0	790.7	789.0	788.1
17.5°	2435.4	2250.9	1689.9	1124.6	836.8	768.5	754.8	758.3	762.5	761.7	759.9
20°	2565.2	2320.9	1579.7	970.1	756.6	724.2	716.5	719.9	723.2	721.6	720.7
22.5°	2712.9	2396.0	1457.7	849.6	702.7	683.2	674.6	675.5	675.5	672.0	670.3
25°	2889.7	2478.9	1329.5	764.2	661.7	646.4	636.1	632.7	627.6	617.4	615.7
27.5°	3100.5	2566.8	1206.5	704.5	629.3	614.8	602.9	594.3	581.5	564.5	562.7
30°	3337.9	2673.6	1102.4	666.9	603.7	589.2	575.5	562.7	544.0	522.5	520.9
32.5°	3617.1	2788.0	1026.4	642.2	580.7	565.3	549.1	533.7	513.2	491.9	492.7
35°	3950.1	2926.4	982.0	625.0	562.7	542.2	524.3	507.3	491.9	473.0	471.4
37.5°	4311.4	3073.3	968.3	616.5	550.7	519.2	498.7	486.8	485.0	474.0	473.0
40°	4706.8	3247.4	978.6	611.4	537.9	497.0	474.8	472.2	476.5	456.8	457.7
42.5°	5125.2	3454.0	995.7	605.5	520.0	474.8	453.5	453.5	450.0	422.7	422.7
45°	5577.7	3692.3	1012.7	590.9	498.7	452.5	436.3	430.4	415.8	389.4	388.6
47.5°	6033.8	3934.8	1025.5	564.5	473.0	433.8	419.2	405.6	384.3	360.4	359.5
50°	6466.6	4152.6	1011.9	525.1	444.0	415.8	400.5	381.7	358.6	342.5	339.9
52.5°	6853.5	4341.3	953.9	479.1	413.3	397.1	383.5	363.8	345.0	327.9	326.2
55°	7190.0	4494.1	851.4	435.5	386.0	380.9	367.2	342.5	316.8	302.3	300.5
57.5°	7512.7	4610.2	723.2	399.6	361.2	363.0	342.5	320.2	296.3	281.0	279.2
60°	7942.2	4765.6	593.5	366.3	334.8	339.9	317.6	301.5	271.5	251.9	249.4
62.5°	8628.8	5007.3	471.4	325.3	304.0	305.7	296.3	276.6	240.8	217.7	216.1
65°	9173.5	4918.6	371.5	281.0	269.0	271.5	271.5	250.2	211.8	185.3	182.8
67.5°	9112.0	4211.5	296.3	237.4	235.6	237.4	243.3	225.4	187.9	166.6	163.1
70°	8393.9	3349.9	237.4	197.2	204.9	200.7	217.7	205.8	169.1	147.7	145.1
72.5°	6849.3	2413.2	181.0	163.1	157.1	164.0	196.4	185.3	140.9	117.0	114.4
75°	4002.3	1287.7	134.9	128.9	113.6	136.6	174.1	158.0	107.6	86.2	83.6
77.5°	1303.1	449.2	99.0	94.8	84.6	110.2	148.6	133.2	87.9	68.3	65.7
80°	349.2	135.8	67.4	62.3	54.6	82.0	117.9	105.9	63.1	44.4	43.6
82.5°	140.0	57.2	39.3	35.1	29.9	56.4	93.1	85.4	46.9	28.2	28.2
85°	45.3	18.8	14.6	11.1	13.6	35.1	55.6	58.0	33.3	14.6	11.1
87.5°	5.9	2.6	2.6	3.4	2.6	5.9	17.1	16.2	9.4	1.7	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)