

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: P962623

Luminaire Tested: **NAV-SB2C-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-830-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13803.7 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

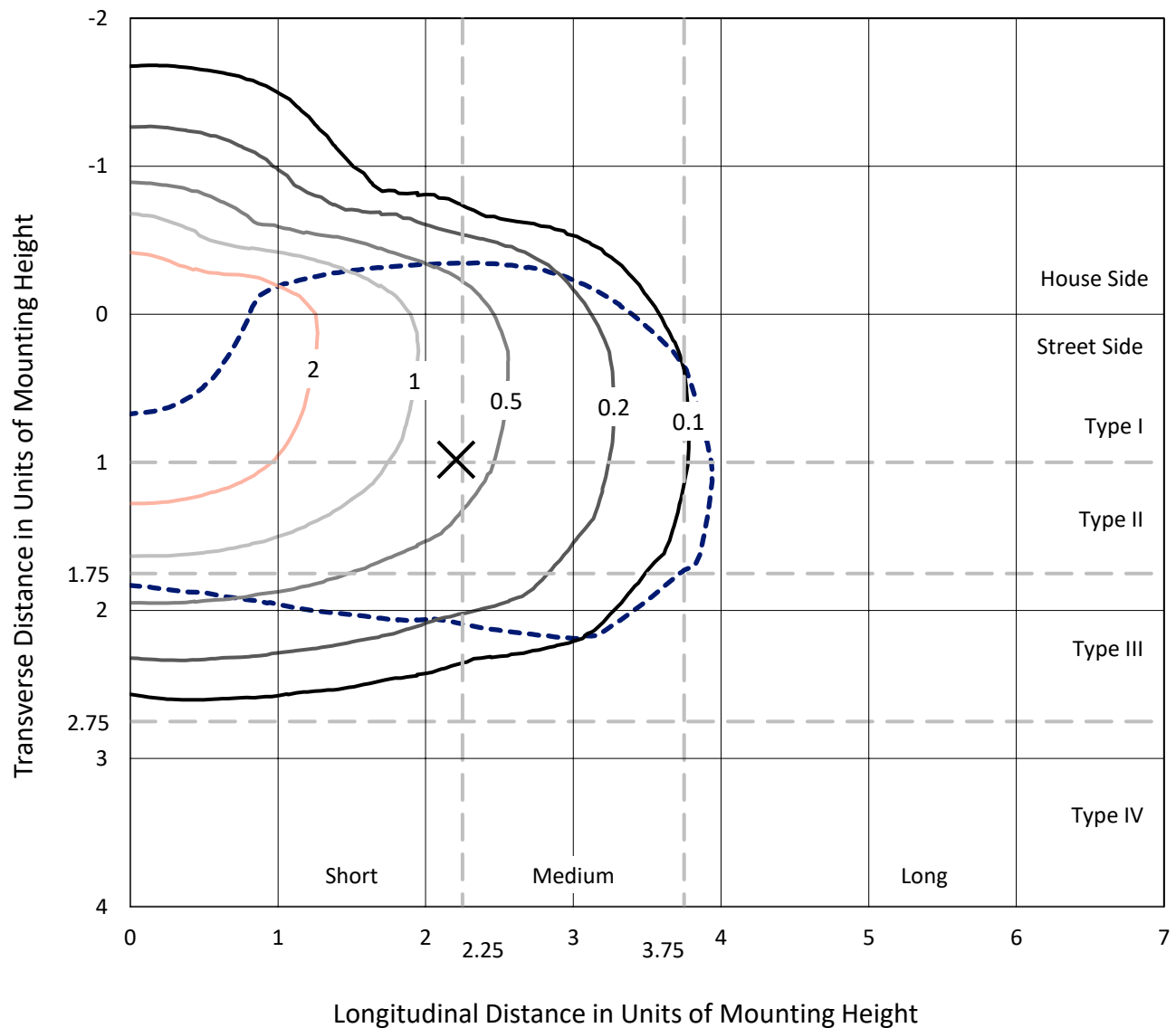
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P962623
CATALOG NUMBER: NAV-SB2C-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

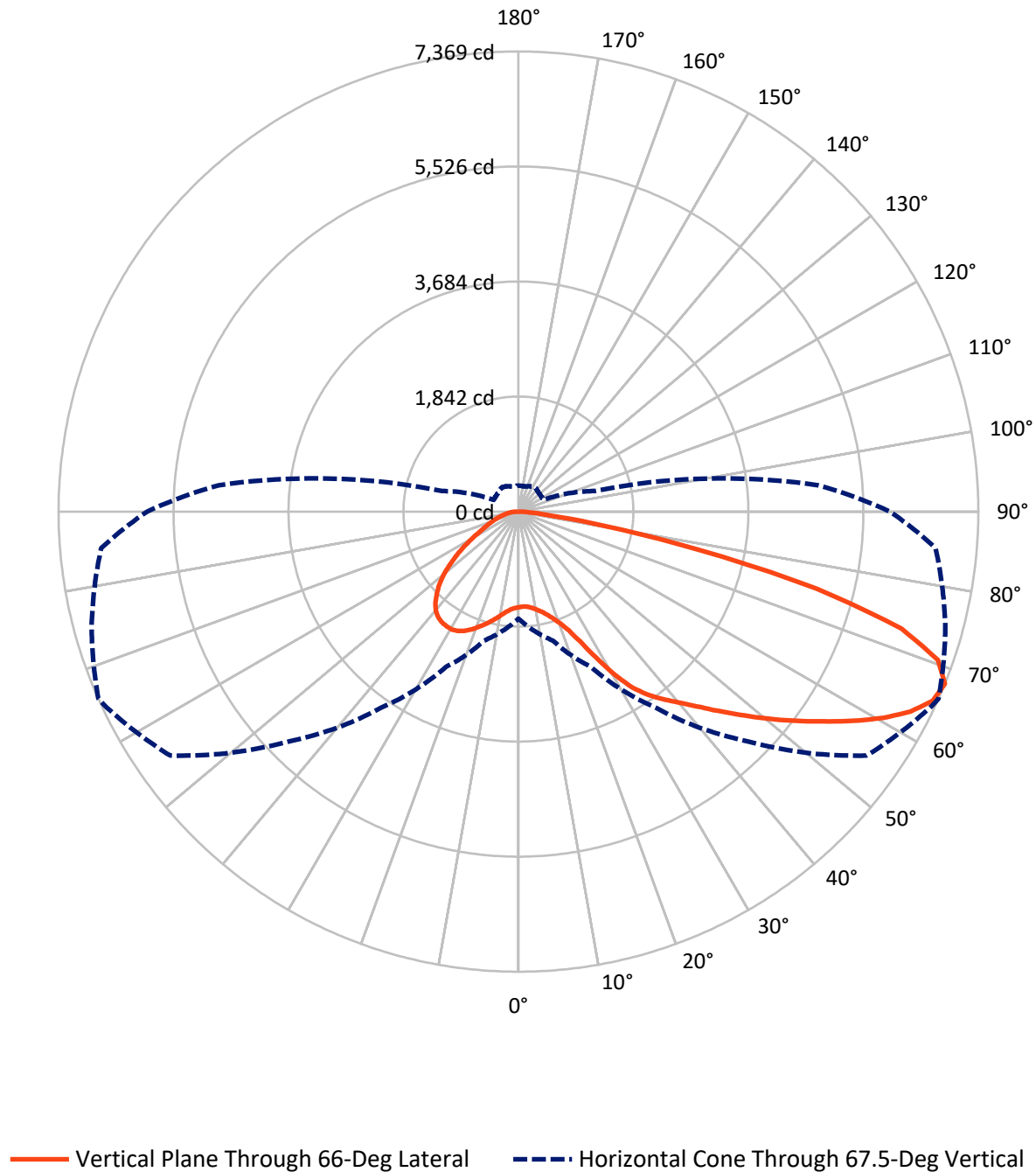
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type III - Short - N/A

REPORT NUMBER: P962623
CATALOG NUMBER: NAV-SB2C-830-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P962623

CATALOG NUMBER: NAV-SB2C-830-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3432.2	0.0	3432.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	10371.4	0.0	10371.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	13803.7	0.0	13803.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.8	1.1
10°-20°	501.5	3.6
20°-30°	966.6	7.0
30°-40°	1694.8	12.3
40°-50°	2519.7	18.3
50°-60°	3193.9	23.1
60°-70°	3125.2	22.6
70°-80°	1490.7	10.8
80°-90°	159.3	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°	13803.7	100.0
0°-180°	13803.7	100.0

Coefficient of Utilization



REPORT NUMBER: P962623

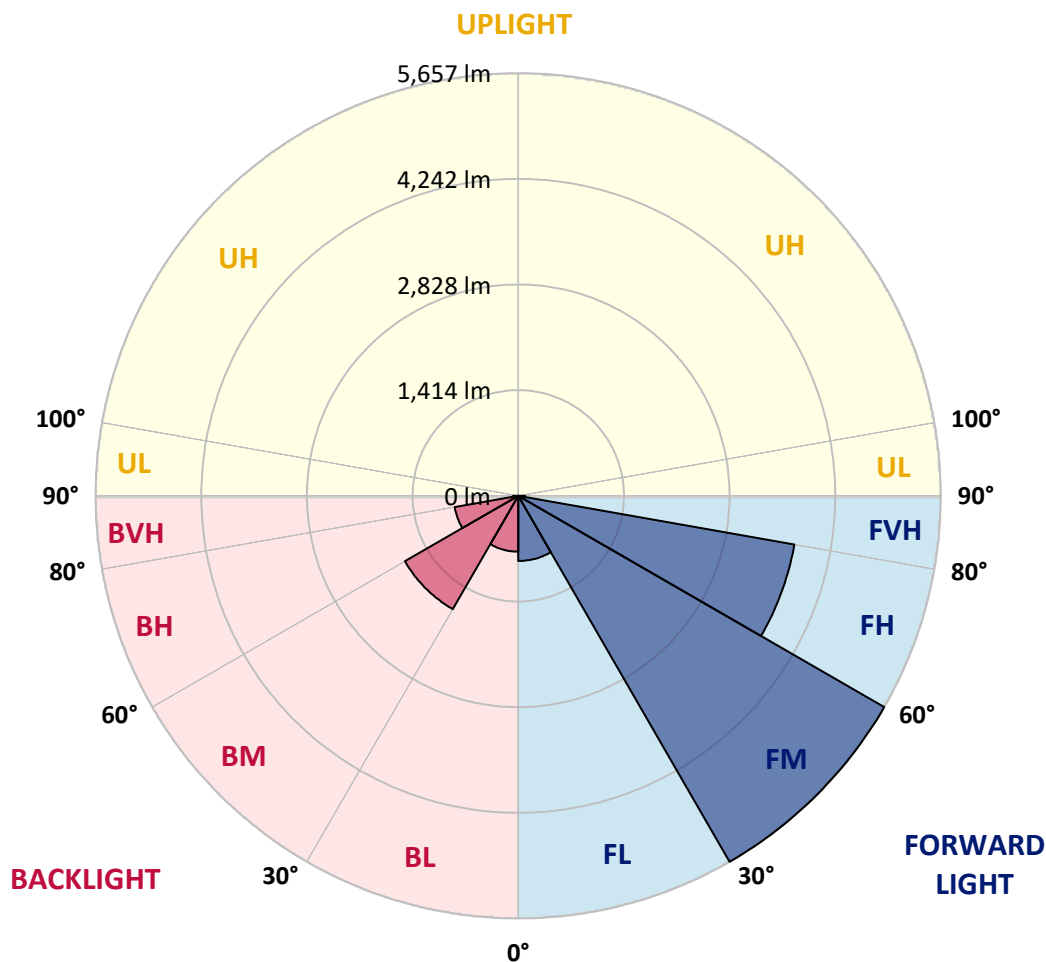
CATALOG NUMBER: NAV-SB2C-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	872.3	6.3			
FM	(30°-60°)	5656.6	41.0			
FH	(60°-80°)	3752.2	27.2			G2/5000
FVH	(80°-90°)	90.3	0.7			G1/100
BL	(0°-30°)	747.7	5.4	B2/1000		
BM	(30°-60°)	1751.9	12.7	B2/2500		
BH	(60°-80°)	863.7	6.3	B2/1000		G2/1000
BVH	(80°-90°)	69.0	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



REPORT NUMBER: P962623

CATALOG NUMBER: NAV-SB2C-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1531.0	1531.0	1531.0	1531.0	1531.0	1531.0	1531.0	1531.0	1531.0	1531.0	1531.0
2.5°	1515.1	1523.8	1521.6	1517.9	1517.2	1518.6	1520.9	1523.0	1522.3	1525.9	1531.8
5°	1510.7	1519.4	1518.6	1518.6	1521.6	1527.4	1531.0	1534.6	1531.0	1535.3	1543.3
7.5°	1513.6	1520.2	1523.0	1525.9	1533.2	1544.1	1552.8	1560.8	1556.4	1561.5	1571.6
10°	1550.6	1555.6	1558.6	1558.6	1563.6	1575.9	1584.6	1599.2	1595.5	1603.5	1616.6
12.5°	1618.1	1623.1	1623.1	1620.2	1623.8	1631.8	1634.7	1650.7	1644.1	1657.2	1670.2
15°	1700.7	1710.8	1702.9	1697.8	1699.2	1707.2	1706.5	1718.8	1712.4	1723.2	1734.8
17.5°	1792.1	1805.1	1792.1	1791.4	1788.5	1797.1	1798.0	1808.8	1797.1	1805.1	1813.1
20°	1900.1	1918.3	1907.4	1911.0	1904.6	1908.1	1911.7	1927.7	1909.6	1915.4	1913.3
22.5°	2052.5	2074.2	2062.6	2076.4	2072.0	2069.2	2068.4	2096.7	2068.4	2070.6	2049.6
25°	2274.4	2300.5	2280.2	2299.1	2299.1	2308.5	2319.4	2355.7	2308.5	2294.7	2240.3
27.5°	2602.2	2628.3	2588.4	2600.0	2596.4	2619.6	2608.0	2697.9	2647.2	2624.7	2515.1
30°	2996.8	3043.1	2967.8	2964.8	2961.2	2998.2	3014.8	3074.4	3022.8	3000.4	2868.4
32.5°	3423.2	3471.8	3381.9	3355.7	3342.0	3364.5	3350.6	3398.5	3363.0	3328.2	3165.0
35°	3874.3	3922.2	3836.6	3785.8	3730.7	3683.5	3634.2	3646.5	3613.2	3560.2	3391.3
37.5°	4300.8	4388.5	4297.8	4243.5	4141.9	4049.8	3912.0	3854.7	3823.6	3775.0	3604.5
40°	4735.2	4785.2	4716.3	4669.9	4559.7	4415.4	4194.9	4073.8	4031.7	3984.6	3840.3
42.5°	5055.0	5102.9	5065.9	5034.0	4947.7	4780.2	4495.1	4343.5	4282.7	4229.7	4107.1
45°	5308.9	5344.3	5321.2	5332.8	5295.8	5133.3	4806.2	4632.9	4569.9	4505.3	4408.8
47.5°	5411.1	5448.8	5485.8	5554.7	5617.8	5498.1	5140.6	4946.2	4879.5	4813.5	4718.5
50°	5399.5	5437.9	5545.2	5691.8	5887.6	5847.7	5493.1	5279.9	5218.2	5142.7	5055.0
52.5°	5306.6	5350.2	5488.0	5731.7	6043.5	6109.5	5852.0	5624.4	5566.4	5476.4	5388.6
55°	5063.0	5089.1	5295.8	5641.0	6080.5	6292.3	6203.8	5991.3	5933.3	5807.9	5712.1
57.5°	4611.2	4648.9	4949.8	5396.6	5987.7	6416.3	6512.7	6377.1	6321.3	6140.7	6040.6
60°	4021.5	4081.8	4426.3	4986.1	5751.3	6415.6	6793.5	6756.5	6710.1	6468.6	6364.1
62.5°	3354.3	3423.9	3755.4	4406.0	5337.9	6233.5	6969.0	7074.1	7050.2	6770.9	6637.5
65°	2576.1	2624.0	2953.9	3655.3	4694.6	5842.6	6989.3	7290.9	7295.3	7000.9	6780.4
67.5°	1715.2	1853.0	2139.5	2742.9	3833.0	5203.7	6810.8	7326.5	7368.6	7079.9	6708.6
70°	836.9	1018.2	1298.9	1782.7	2742.9	4223.9	6344.5	7035.0	7128.5	6849.3	6280.7
72.5°	347.4	406.1	559.1	879.8	1574.5	2850.2	5407.5	6244.4	6417.7	6068.9	5280.6
75°	234.2	253.8	319.8	451.1	717.3	1405.6	3899.7	4656.2	4935.4	4583.6	3746.7
77.5°	180.6	192.9	232.8	315.5	426.4	531.6	2087.3	2806.0	2950.4	2731.3	1949.4
80°	142.2	151.6	174.0	229.9	302.5	284.3	711.5	1271.4	1354.7	1136.5	626.6
82.5°	123.3	126.9	124.7	155.9	200.9	166.0	233.5	469.2	517.8	375.7	204.5
85°	89.2	99.3	103.7	96.5	106.6	84.2	95.7	166.0	182.8	163.2	115.3
87.5°	36.3	53.7	66.0	62.4	39.2	23.9	29.7	48.6	55.9	60.9	37.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P962623

CATALOG NUMBER: NAV-SB2C-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1531.0	1531.0	1531.0	1531.0	1531.0	1531.0	1531.0	1531.0	1531.0	1531.0	1531.0
2.5°	1532.5	1537.5	1541.2	1545.5	1548.4	1552.8	1561.5	1566.5	1567.2	1570.9	1570.2
5°	1546.2	1553.5	1561.5	1573.1	1586.1	1597.1	1613.7	1625.3	1629.6	1633.2	1632.5
7.5°	1575.9	1586.1	1600.6	1620.9	1639.8	1654.4	1674.6	1688.4	1702.2	1707.2	1708.0
10°	1620.2	1634.7	1655.8	1683.4	1703.7	1722.5	1743.5	1755.1	1768.8	1774.7	1777.6
12.5°	1675.4	1690.5	1718.1	1756.5	1775.4	1788.5	1795.7	1792.8	1795.7	1800.8	1802.3
15°	1738.4	1755.1	1786.3	1827.7	1840.7	1829.1	1813.1	1798.7	1796.4	1798.0	1803.0
17.5°	1813.1	1825.4	1861.7	1896.6	1887.1	1839.3	1804.4	1781.2	1769.7	1766.0	1771.1
20°	1917.6	1917.6	1947.3	1969.0	1906.0	1824.7	1770.4	1732.7	1708.7	1698.5	1696.4
22.5°	2044.5	2032.9	2051.7	2036.5	1902.3	1784.1	1708.7	1643.4	1607.2	1592.6	1590.5
25°	2205.5	2191.8	2186.6	2092.3	1876.3	1719.5	1597.1	1517.9	1486.0	1478.0	1479.5
27.5°	2448.4	2413.7	2347.7	2122.8	1828.4	1618.1	1466.5	1393.2	1375.0	1375.8	1378.0
30°	2771.9	2702.3	2540.6	2127.9	1750.1	1474.5	1333.0	1280.8	1272.1	1275.7	1288.0
32.5°	3071.4	3005.4	2737.9	2104.7	1629.6	1333.7	1213.4	1178.5	1165.5	1169.8	1175.7
35°	3306.4	3288.3	2920.6	2072.0	1481.7	1201.7	1106.0	1076.2	1050.9	1045.1	1049.4
37.5°	3528.4	3521.1	3057.7	2026.3	1335.2	1108.2	1019.7	980.5	943.5	923.2	923.9
40°	3772.0	3764.8	3147.6	1956.0	1205.4	1026.9	942.1	890.6	844.9	807.9	811.6
42.5°	4046.2	4003.4	3190.4	1855.1	1095.1	958.1	879.0	809.3	749.2	715.1	717.3
45°	4345.7	4249.2	3189.7	1726.8	1002.3	894.9	811.6	712.9	657.1	625.1	623.7
47.5°	4663.3	4484.3	3150.5	1584.6	912.4	825.3	707.1	631.7	594.7	575.1	570.8
50°	4991.2	4704.0	3083.8	1421.5	820.3	746.3	641.9	590.4	562.1	544.0	537.4
52.5°	5299.5	4903.4	3003.2	1236.6	726.7	669.4	612.8	573.0	543.2	523.0	514.2
55°	5585.9	5075.3	2889.4	1047.2	650.6	617.9	599.0	565.7	531.6	507.7	498.3
57.5°	5840.4	5187.0	2692.9	869.6	596.1	582.4	584.6	553.4	514.2	493.9	480.8
60°	6052.2	5269.0	2402.1	705.0	552.0	547.6	562.1	530.1	484.5	461.2	451.1
62.5°	6179.1	5267.5	2045.2	577.3	514.2	515.7	532.4	501.1	454.7	433.0	426.4
65°	6168.2	5138.4	1653.5	493.9	478.0	479.4	501.1	469.2	430.1	417.0	416.3
67.5°	5950.0	4823.6	1268.4	439.5	438.1	444.5	470.0	447.5	414.8	413.4	415.5
70°	5358.9	4170.2	913.8	396.0	396.7	406.1	439.5	433.7	406.8	409.8	409.1
72.5°	4297.1	3179.5	613.6	350.3	351.1	366.2	410.5	422.8	398.9	437.4	443.1
75°	2861.8	1982.9	394.5	301.7	302.5	322.1	385.1	401.8	377.1	435.8	439.5
77.5°	1375.0	891.3	285.8	253.8	253.8	271.9	332.9	359.8	321.3	338.7	310.4
80°	475.1	335.1	224.8	204.5	200.2	212.5	280.6	311.9	277.1	255.3	239.3
82.5°	187.2	174.0	180.6	158.9	144.3	152.3	218.3	257.5	203.8	184.2	183.5
85°	107.3	113.2	127.6	105.2	83.4	93.6	160.3	184.9	153.8	135.6	138.5
87.5°	29.0	39.9	58.7	54.4	37.7	39.9	76.2	102.3	88.5	68.2	70.3
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)