

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: P959454

Luminaire Tested: **NAV-SB1A-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-830-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

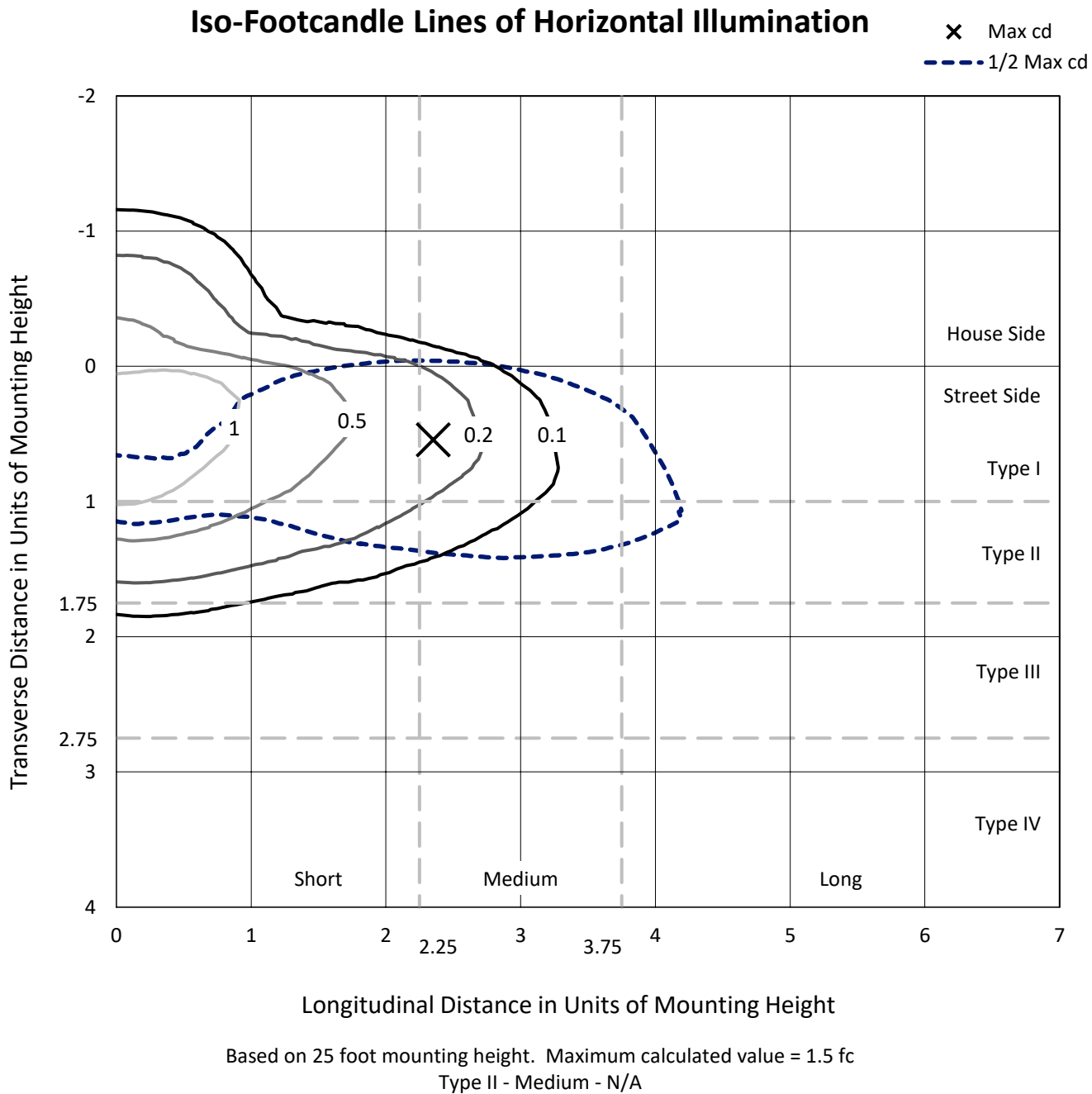
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4209.7 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 30.9
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

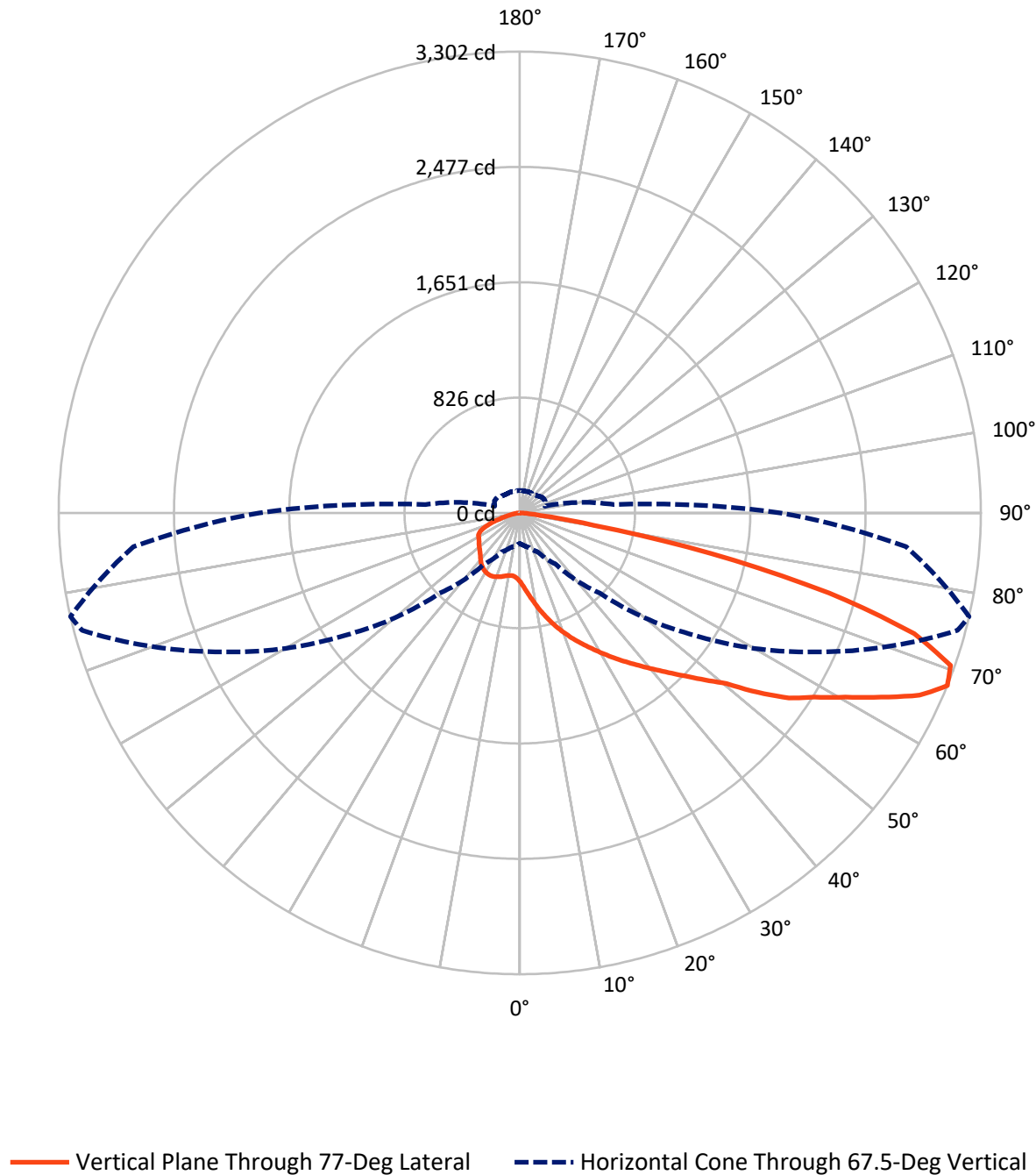


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	796.3	0.0	796.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	3413.4	0.0	3413.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	4209.7	0.0	4209.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	1.3
10°-20°	190.2	4.5
20°-30°	359.1	8.5
30°-40°	578.5	13.7
40°-50°	791.3	18.8
50°-60°	892.6	21.2
60°-70°	833.1	19.8
70°-80°	456.7	10.8
80°-90°	55.1	1.3
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°	4209.7	100.0
0°-180°	4209.7	100.0

Coefficient of Utilization



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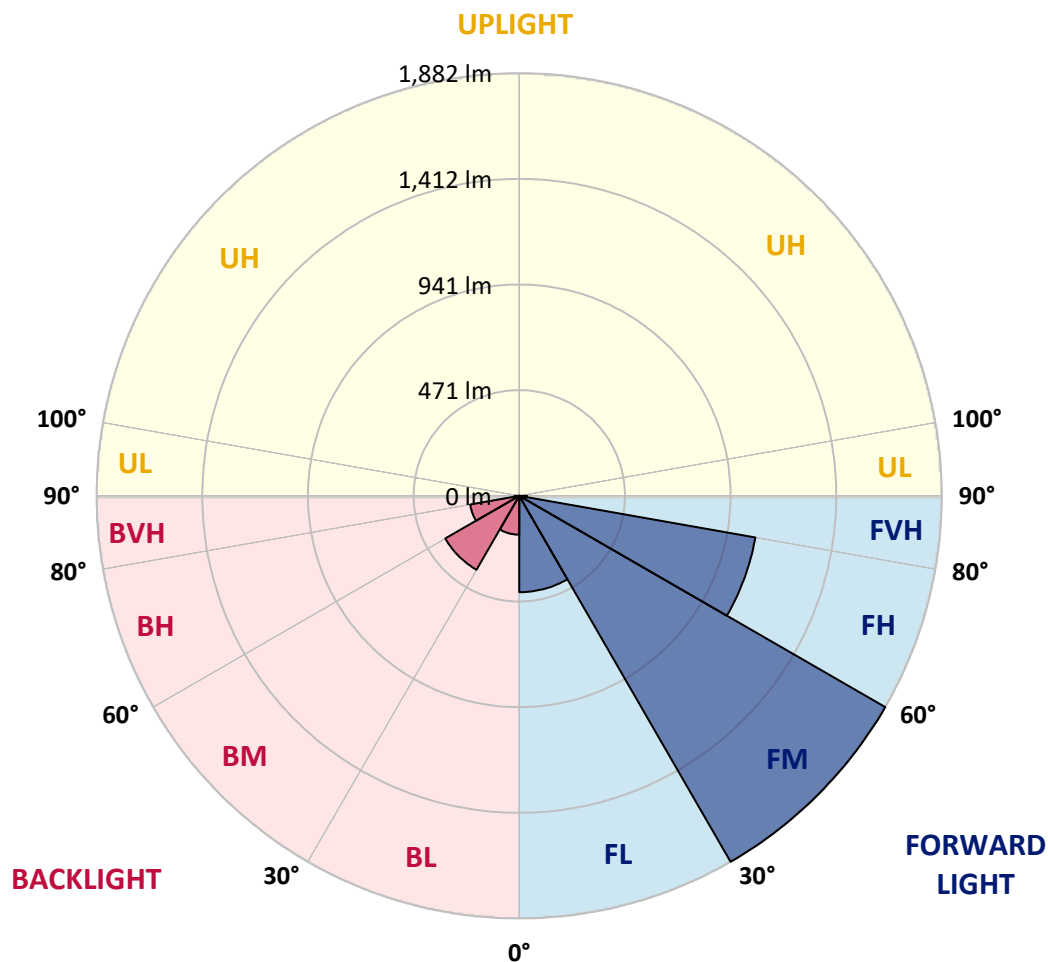
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	429.1	10.2			
FM	(30°-60°)	1882.1	44.7			
FH	(60°-80°)	1067.7	25.4			G1/1800
FVH	(80°-90°)	34.4	0.8			G1/100
BL	(0°-30°)	173.1	4.1	B1/500		
BM	(30°-60°)	380.4	9.0	B1/1000		
BH	(60°-80°)	222.2	5.3	B1/500		G1/500
BVH	(80°-90°)	20.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9
2.5°	618.5	622.8	617.4	617.4	599.1	589.6	571.3	557.4	532.4	528.1	511.6
5°	731.0	736.5	728.9	725.6	704.1	684.3	653.6	623.4	578.9	574.3	535.5
7.5°	818.2	825.1	818.4	814.9	795.7	773.6	737.7	695.6	632.7	623.9	567.5
10°	889.2	890.3	888.1	889.4	874.4	856.2	819.5	770.3	691.9	679.7	606.5
12.5°	929.4	934.4	938.7	946.6	943.9	932.6	899.6	840.9	754.5	738.8	648.8
15°	948.3	957.0	966.8	984.8	999.4	1002.1	977.0	916.8	818.2	799.2	691.7
17.5°	955.0	963.3	978.8	1004.8	1036.1	1057.2	1045.9	990.5	881.2	859.5	736.7
20°	989.1	991.6	1000.9	1025.6	1059.5	1094.5	1103.0	1061.3	943.5	919.0	783.2
22.5°	1062.2	1057.4	1060.0	1071.3	1095.6	1129.6	1148.9	1123.9	1007.6	979.4	830.0
25°	1182.7	1168.9	1155.0	1142.0	1154.4	1173.4	1195.4	1186.4	1074.8	1038.9	877.5
27.5°	1335.1	1318.1	1287.5	1244.7	1229.7	1236.5	1246.2	1244.5	1136.9	1100.6	926.4
30°	1485.0	1465.2	1428.7	1366.8	1327.3	1309.4	1302.1	1297.0	1204.5	1165.8	975.7
32.5°	1604.7	1589.2	1553.3	1484.0	1426.6	1396.2	1371.7	1353.8	1275.1	1236.5	1027.9
35°	1709.5	1694.9	1653.8	1578.3	1515.9	1483.5	1451.4	1413.4	1348.6	1309.4	1083.9
37.5°	1805.1	1790.6	1734.3	1655.6	1592.8	1570.4	1541.7	1477.2	1422.2	1385.3	1143.2
40°	1865.5	1862.3	1809.6	1720.6	1655.4	1644.3	1634.8	1551.3	1504.0	1469.6	1208.4
42.5°	1881.0	1888.2	1846.4	1773.1	1711.0	1702.1	1724.5	1635.2	1595.6	1562.8	1282.3
45°	1843.8	1864.5	1837.1	1787.3	1750.6	1745.8	1804.0	1726.9	1697.1	1667.2	1371.3
47.5°	1749.7	1784.7	1773.4	1766.5	1761.3	1781.9	1874.0	1824.2	1812.1	1786.0	1473.1
50°	1559.7	1626.1	1645.8	1689.7	1740.1	1809.9	1937.7	1930.5	1946.4	1920.0	1596.9
52.5°	1231.4	1322.8	1437.5	1547.4	1675.4	1800.5	2007.7	2083.0	2149.9	2135.6	1793.9
55°	1016.5	1057.6	1145.8	1347.5	1549.8	1761.3	2039.1	2206.2	2352.1	2339.3	1943.1
57.5°	851.4	888.1	942.4	1110.9	1359.9	1671.9	2058.7	2281.4	2490.4	2489.2	2090.5
60°	674.2	713.2	768.9	888.1	1138.1	1517.6	2054.4	2367.0	2667.2	2678.0	2270.2
62.5°	474.4	517.2	578.9	690.1	911.3	1317.7	1965.7	2428.9	2875.1	2904.6	2486.3
65°	311.8	340.1	386.6	482.7	679.1	1060.7	1796.4	2437.0	3097.7	3147.6	2689.3
67.5°	218.6	229.5	256.9	309.0	447.6	813.3	1526.7	2353.8	3246.1	3302.3	2777.3
70°	170.6	176.0	189.9	210.7	281.2	546.9	1169.9	2137.3	3214.3	3273.0	2685.4
72.5°	147.3	152.5	157.7	160.4	188.6	337.6	792.5	1787.1	2915.5	2955.3	2335.0
75°	133.7	135.0	139.3	138.4	143.8	219.0	457.5	1302.1	2300.3	2286.7	1723.6
77.5°	112.3	114.1	121.3	120.1	127.8	149.8	237.5	840.3	1491.4	1398.3	959.4
80°	95.2	96.0	103.8	102.6	111.0	108.4	121.3	428.3	632.5	535.9	276.6
82.5°	33.0	40.9	79.3	81.7	84.8	65.6	70.0	174.7	193.2	148.0	58.0
85°	16.1	17.1	40.4	57.4	57.2	33.0	34.1	62.3	60.9	47.8	19.4
87.5°	2.6	3.3	4.8	22.3	17.8	8.7	11.7	12.2	12.6	10.9	4.3
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°	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9
2.5°	499.4	488.5	465.7	444.6	428.0	412.3	403.3	395.8	391.3	390.5	390.5
5°	512.8	490.5	449.0	414.0	391.1	374.2	365.3	359.7	356.8	355.1	354.9
7.5°	532.2	499.4	440.2	400.5	376.6	364.4	359.9	359.0	358.7	359.0	359.7
10°	558.9	513.9	439.4	397.2	377.2	370.5	370.3	370.5	371.4	371.6	371.8
12.5°	587.8	528.9	442.9	400.1	385.5	381.8	381.2	380.9	381.6	382.0	382.2
15°	619.3	548.7	448.7	406.1	394.6	390.7	390.0	388.8	388.6	388.3	388.1
17.5°	651.7	568.3	455.2	412.7	400.5	395.0	392.7	389.6	387.2	386.6	387.2
20°	684.5	587.6	459.8	415.9	400.9	393.3	388.6	383.3	379.1	376.8	377.7
22.5°	719.4	607.8	462.7	415.0	397.0	386.6	377.9	371.8	365.5	361.4	361.6
25°	753.6	625.4	462.4	410.5	389.4	376.2	365.1	357.2	348.5	344.2	344.2
27.5°	786.4	641.2	456.9	402.4	378.5	363.8	350.5	341.1	332.7	328.5	328.3
30°	820.3	654.5	448.5	390.7	365.7	349.4	334.9	326.8	319.2	315.3	315.1
32.5°	854.0	666.7	436.5	376.2	351.0	335.3	320.9	313.5	309.0	309.0	309.2
35°	889.6	675.2	420.7	359.2	335.3	320.3	309.0	304.6	304.2	301.7	300.9
37.5°	927.2	680.6	401.4	341.8	319.9	305.8	302.3	297.0	292.7	287.1	286.2
40°	966.8	686.0	378.1	323.8	303.6	295.7	294.2	287.3	274.9	261.0	259.0
42.5°	1014.7	689.7	353.9	305.8	286.4	283.8	286.0	274.0	254.2	243.8	244.1
45°	1070.4	695.8	331.8	287.9	268.8	268.8	277.9	262.3	246.0	239.4	240.6
47.5°	1142.6	709.9	311.2	268.3	252.5	256.9	260.1	248.2	239.0	231.0	230.7
50°	1246.9	743.8	289.9	248.6	240.2	248.8	244.3	237.3	226.6	220.2	219.5
52.5°	1376.4	763.8	271.0	230.7	229.5	238.2	231.6	225.1	217.1	208.4	206.6
55°	1464.6	767.5	255.1	217.7	222.3	221.4	219.0	213.2	208.8	197.3	197.5
57.5°	1563.2	774.9	242.1	209.9	217.7	208.2	207.3	202.3	196.7	188.8	186.2
60°	1681.3	786.4	230.7	206.8	213.8	199.5	195.2	193.2	187.6	183.6	184.7
62.5°	1809.9	796.8	219.2	207.3	209.3	191.0	184.5	183.9	180.4	179.1	179.1
65°	1897.7	768.3	204.9	206.8	202.1	182.3	174.0	173.8	171.0	170.6	170.4
67.5°	1867.0	678.2	185.5	200.8	194.7	173.6	164.5	163.6	159.9	160.1	160.1
70°	1713.6	549.6	158.9	185.8	185.5	165.8	154.5	151.7	146.7	147.5	148.4
72.5°	1426.0	407.2	123.0	160.8	171.0	158.7	143.0	138.4	132.1	132.9	132.7
75°	1029.8	276.9	89.5	122.4	148.8	150.2	131.7	123.8	116.2	117.6	118.0
77.5°	527.0	156.9	65.8	84.4	117.0	136.4	121.5	111.0	109.3	121.5	119.7
80°	171.9	78.6	45.6	59.1	76.7	111.7	106.5	94.5	94.1	97.0	83.2
82.5°	51.2	33.2	29.3	38.8	42.3	85.6	91.9	71.4	61.5	64.8	66.9
85°	17.6	16.1	16.7	19.4	20.2	50.2	64.4	47.4	44.8	49.3	48.7
87.5°	4.1	5.6	4.8	4.3	4.3	12.2	25.0	19.8	27.4	18.2	17.6
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)