

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: P961519

Luminaire Tested: **NAV-SB2A-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-827-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

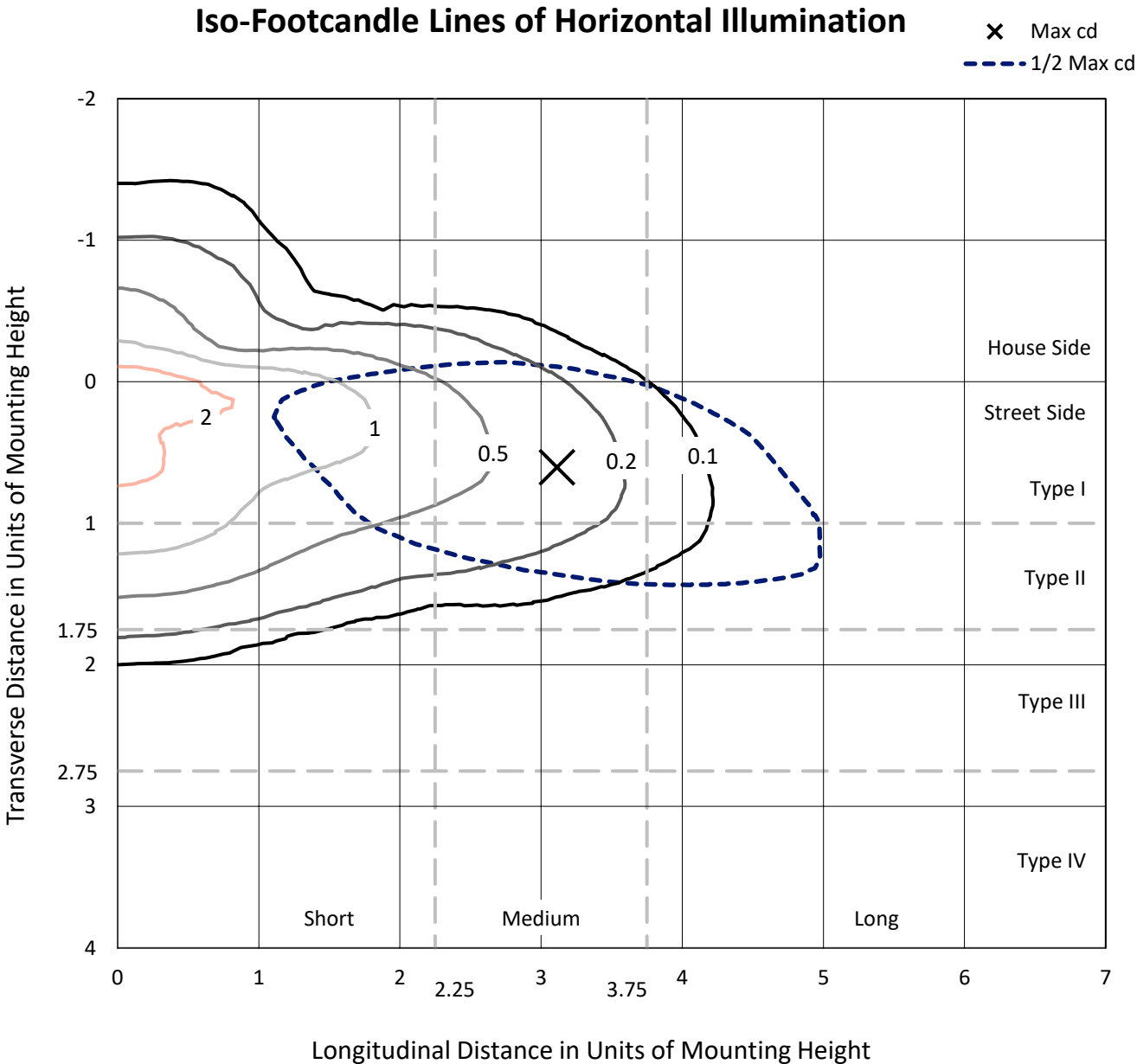
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7946.8 lumens
Efficiency: N/A
Efficacy: 138.7 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): 57.3
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



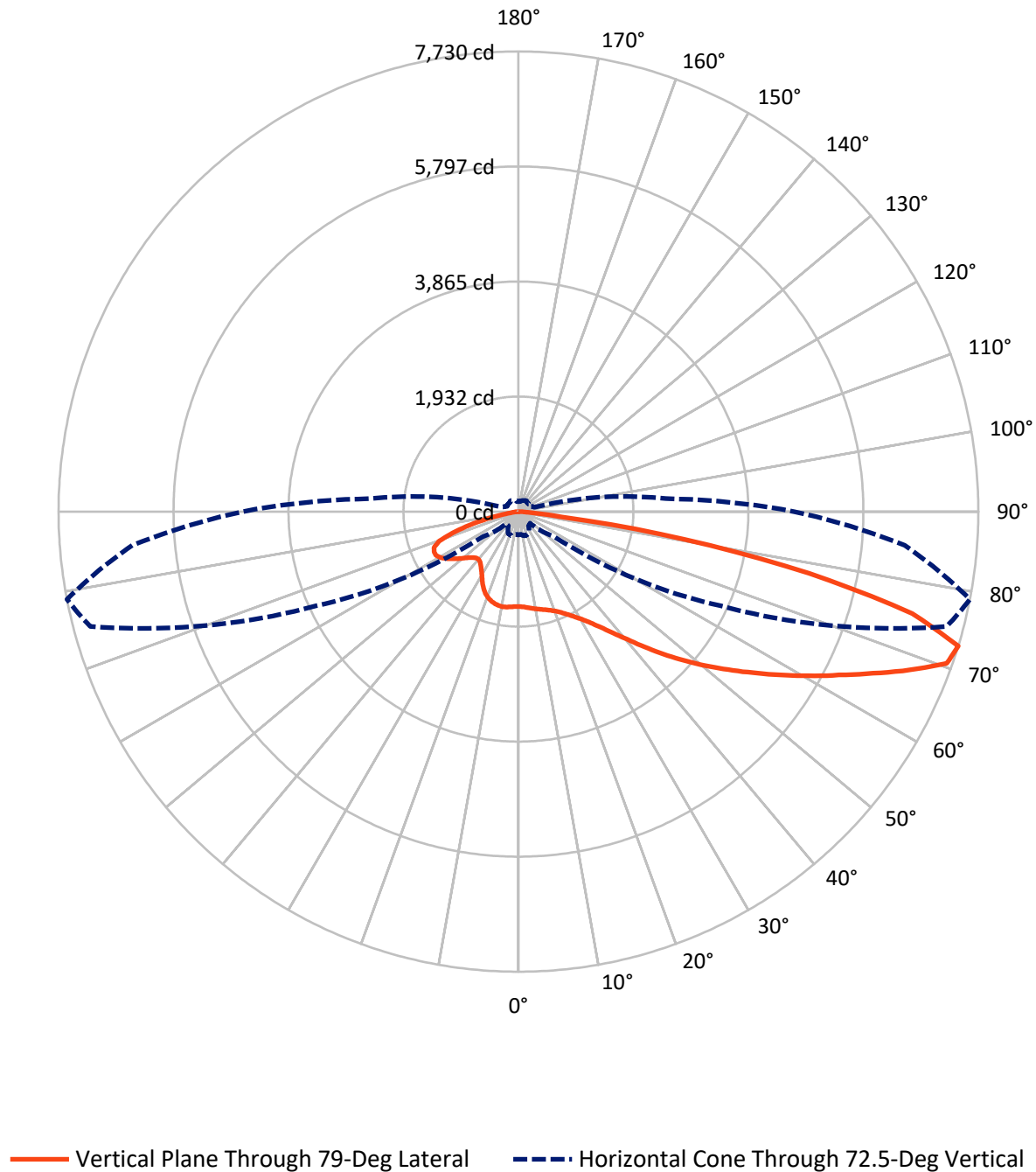
REPORT NUMBER: P961519
CATALOG NUMBER: NAV-SB2A-827-U-SL2



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

REPORT NUMBER: P961519
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Luminous Intensity Polar Plot



REPORT NUMBER: P961519

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1748.7	0.0	1748.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	6198.1	0.0	6198.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	7946.8	0.0	7946.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	1.8
10°-20°	378.6	4.8
20°-30°	610.9	7.7
30°-40°	916.8	11.5
40°-50°	1300.6	16.4
50°-60°	1642.5	20.7
60°-70°	1668.2	21.0
70°-80°	1136.9	14.3
80°-90°	147.5	1.9
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°	7946.8	100.0
0°-180°	7946.8	100.0

Coefficient of Utilization



REPORT NUMBER: P961519

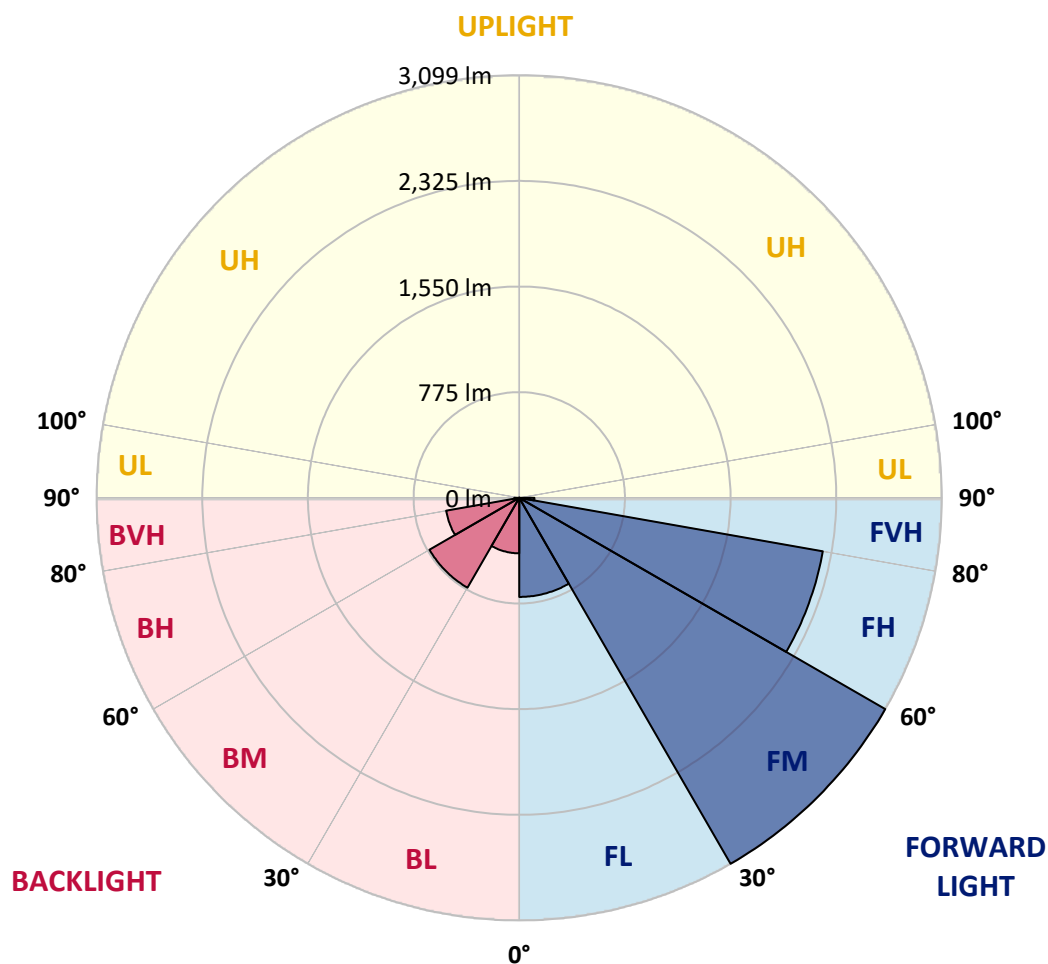
CATALOG NUMBER: NAV-SB2A-827-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	726.9	9.1			
FM	(30°-60°)	3099.4	39.0			
FH	(60°-80°)	2260.6	28.4			G2/5000
FVH	(80°-90°)	111.1	1.4			G2/225
BL	(0°-30°)	407.3	5.1	B1/500		
BM	(30°-60°)	760.5	9.6	B1/1000		
BH	(60°-80°)	544.5	6.9	B2/1000		G2/1000
BVH	(80°-90°)	36.4	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 II Medium



REPORT NUMBER: P961519

CATALOG NUMBER: NAV-SB2A-827-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2
2.5°	1596.1	1588.5	1593.2	1591.5	1593.6	1596.1	1596.9	1598.2	1602.4	1602.0	1601.6
5°	1592.7	1585.2	1591.5	1589.4	1594.8	1600.7	1605.8	1610.4	1617.1	1620.0	1615.8
7.5°	1585.6	1580.6	1586.8	1593.2	1603.2	1612.0	1619.2	1629.7	1639.4	1641.0	1644.0
10°	1544.0	1540.2	1554.9	1571.3	1599.0	1623.0	1638.6	1650.8	1661.2	1663.0	1667.2
12.5°	1500.7	1496.1	1512.5	1534.7	1579.7	1623.0	1655.8	1671.8	1681.0	1686.4	1692.8
15°	1493.5	1489.7	1499.0	1518.3	1555.7	1611.6	1667.6	1697.0	1705.0	1711.2	1713.8
17.5°	1528.0	1520.9	1524.6	1531.4	1553.2	1601.2	1676.8	1725.6	1737.8	1744.4	1744.4
20°	1607.8	1597.8	1591.9	1578.4	1574.6	1602.8	1676.0	1760.0	1776.0	1784.4	1786.5
22.5°	1714.2	1707.4	1694.8	1660.8	1623.8	1623.4	1692.0	1804.2	1834.0	1842.0	1837.0
25°	1842.8	1832.7	1816.8	1770.6	1699.4	1664.2	1718.8	1860.5	1910.5	1912.6	1897.9
27.5°	1990.8	1975.7	1953.9	1892.9	1797.0	1728.0	1760.0	1925.3	1998.3	1997.5	1967.3
30°	2146.8	2131.6	2108.5	2034.5	1913.9	1814.2	1817.2	1995.0	2102.6	2098.0	2046.3
32.5°	2260.6	2249.4	2244.8	2187.6	2048.4	1915.9	1882.8	2072.3	2231.2	2227.0	2154.8
35°	2348.1	2333.4	2338.8	2309.8	2195.1	2029.9	1963.1	2164.4	2387.6	2387.2	2297.2
37.5°	2434.7	2421.7	2426.3	2407.0	2330.8	2174.5	2061.0	2277.0	2581.4	2590.7	2469.6
40°	2513.7	2499.9	2518.3	2500.3	2436.4	2328.4	2172.4	2404.4	2805.8	2823.6	2678.1
42.5°	2561.3	2550.3	2581.0	2581.4	2528.1	2458.3	2294.8	2544.9	3065.7	3105.1	2934.5
45°	2577.7	2573.9	2620.1	2629.7	2609.1	2533.5	2404.9	2697.8	3345.6	3416.2	3226.7
47.5°	2559.9	2552.9	2616.7	2652.5	2668.8	2568.8	2496.1	2863.4	3631.5	3734.9	3545.3
50°	2470.9	2457.0	2551.9	2627.2	2685.6	2591.9	2588.1	3054.7	3956.4	4069.5	3865.6
52.5°	2310.7	2300.2	2408.2	2538.9	2648.7	2603.3	2691.5	3263.6	4264.9	4411.2	4193.9
55°	2106.0	2092.1	2211.0	2381.7	2556.6	2599.5	2795.0	3497.4	4629.0	4777.3	4533.2
57.5°	1781.4	1753.7	1904.2	2106.0	2406.5	2594.9	2902.6	3729.8	4998.8	5176.7	4895.0
60°	1308.1	1267.0	1451.5	1690.6	2113.1	2549.9	3035.8	3990.4	5442.7	5603.0	5290.1
62.5°	761.7	737.7	858.3	1081.6	1592.7	2285.0	3110.7	4293.5	5879.1	6047.2	5678.6
65°	591.4	584.8	595.2	612.4	886.5	1710.8	2879.8	4589.0	6433.9	6551.7	6083.4
67.5°	541.0	536.0	540.6	508.2	449.8	952.9	2278.4	4663.9	7028.3	7099.8	6437.7
70°	480.9	475.0	490.2	462.4	353.9	433.4	1472.1	4392.3	7501.3	7635.3	6707.2
72.5°	391.8	385.1	420.4	407.7	298.1	278.3	739.4	3747.1	7451.6	7729.9	6514.3
75°	300.9	297.1	339.3	349.7	242.9	219.0	354.8	2785.2	6557.5	6837.9	5614.2
77.5°	233.7	230.7	252.3	290.5	195.9	169.8	218.1	1766.8	4941.7	4990.9	3869.0
80°	175.3	166.9	186.7	224.9	152.6	124.0	148.0	1030.3	3123.7	2831.6	1684.0
82.5°	109.7	105.5	121.9	150.1	107.6	85.4	96.2	569.2	1251.8	737.3	324.9
85°	62.6	61.0	66.4	85.8	58.4	49.2	55.0	251.3	228.7	157.2	98.0
87.5°	25.2	24.4	30.2	38.2	21.4	18.0	19.4	60.6	50.4	46.6	32.4
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: P961519

CATALOG NUMBER: NAV-SB2A-827-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2
2.5°	1599.9	1599.9	1594.0	1584.8	1574.2	1567.5	1556.6	1553.6	1542.3	1538.9	1544.4
5°	1619.2	1615.8	1597.8	1571.7	1536.0	1503.2	1467.1	1444.3	1412.3	1401.1	1409.5
7.5°	1643.6	1634.4	1603.2	1546.1	1471.3	1397.7	1321.2	1263.2	1207.7	1188.0	1190.4
10°	1665.8	1652.8	1599.9	1499.8	1370.3	1243.0	1121.0	1035.8	971.0	944.5	950.4
12.5°	1688.2	1664.2	1577.6	1422.9	1227.0	1054.2	924.3	857.9	818.1	786.1	796.5
15°	1709.2	1675.6	1543.1	1319.9	1069.8	894.5	798.7	745.7	713.8	692.7	696.5
17.5°	1733.6	1685.2	1491.4	1189.2	920.1	783.9	705.8	673.8	667.5	665.0	666.7
20°	1767.6	1694.0	1423.3	1042.9	810.1	695.7	655.4	652.4	652.0	650.7	654.9
22.5°	1804.2	1704.6	1333.3	910.1	716.3	640.6	633.4	627.6	623.8	623.4	628.0
25°	1847.5	1707.9	1220.7	801.2	636.4	614.6	606.2	597.4	594.8	594.8	597.4
27.5°	1889.5	1696.6	1089.6	706.6	591.4	590.6	579.6	576.8	576.4	577.6	581.0
30°	1931.5	1675.2	959.3	619.2	565.4	565.4	561.6	563.6	565.4	569.6	572.6
32.5°	1988.3	1652.4	850.3	554.4	542.6	538.4	542.2	546.4	548.2	553.6	558.2
35°	2071.5	1636.4	763.8	519.2	519.2	513.6	515.8	515.0	511.2	508.6	514.6
37.5°	2181.6	1635.6	692.3	502.8	499.4	498.6	499.0	493.5	478.8	461.1	461.6
40°	2314.0	1658.3	637.2	491.4	488.8	493.9	491.4	476.7	436.3	405.6	404.8
42.5°	2491.9	1723.0	602.0	477.5	485.1	491.4	481.3	430.4	403.1	382.5	381.7
45°	2701.2	1828.1	583.8	462.8	478.0	485.5	436.8	414.5	392.6	367.8	366.1
47.5°	2938.3	1960.5	579.6	449.0	462.0	466.6	417.8	407.7	382.9	356.1	353.9
50°	3196.4	2117.3	591.0	432.6	438.8	422.9	411.5	402.3	376.7	350.1	347.2
52.5°	3463.3	2290.1	613.8	410.3	415.7	398.1	409.0	401.0	372.9	337.1	334.6
55°	3725.6	2464.1	635.6	384.2	392.2	375.8	401.9	396.0	355.6	315.3	313.1
57.5°	3992.1	2637.3	657.0	361.1	369.5	354.3	390.5	382.5	336.3	295.1	294.3
60°	4269.1	2805.4	667.1	338.8	344.7	334.6	373.3	359.4	314.5	274.5	273.3
62.5°	4528.4	2945.4	650.7	316.5	320.3	316.1	350.5	332.1	292.5	251.3	250.9
65°	4788.7	3028.7	600.2	294.7	295.5	293.5	318.7	302.7	266.9	231.2	228.7
67.5°	5024.5	3075.3	520.0	271.1	269.1	268.1	288.7	270.7	242.1	211.0	208.5
70°	5074.6	2956.8	397.2	243.3	243.3	241.3	256.0	237.5	214.8	189.6	188.7
72.5°	4634.8	2487.3	282.1	211.9	215.2	211.0	223.2	207.7	187.1	170.3	165.2
75°	3737.4	1823.9	205.1	179.5	185.4	178.2	189.6	178.7	161.0	160.6	144.6
77.5°	2567.9	1127.8	148.8	148.0	152.2	142.9	155.9	150.1	134.1	127.0	119.0
80°	1095.8	449.8	108.4	114.3	114.3	105.9	121.1	122.8	108.9	105.5	105.5
82.5°	218.1	127.8	76.1	78.6	74.0	71.4	85.8	95.0	131.2	145.9	146.3
85°	65.6	47.0	45.8	42.8	37.8	38.2	50.4	95.4	117.7	67.2	58.0
87.5°	18.0	11.8	12.2	9.6	8.0	10.6	17.2	72.3	39.5	16.8	14.2
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)