

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: P883300

Luminaire Tested: **NAV-SB3C-827-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883300
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-SB3C-827-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 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: 13819 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

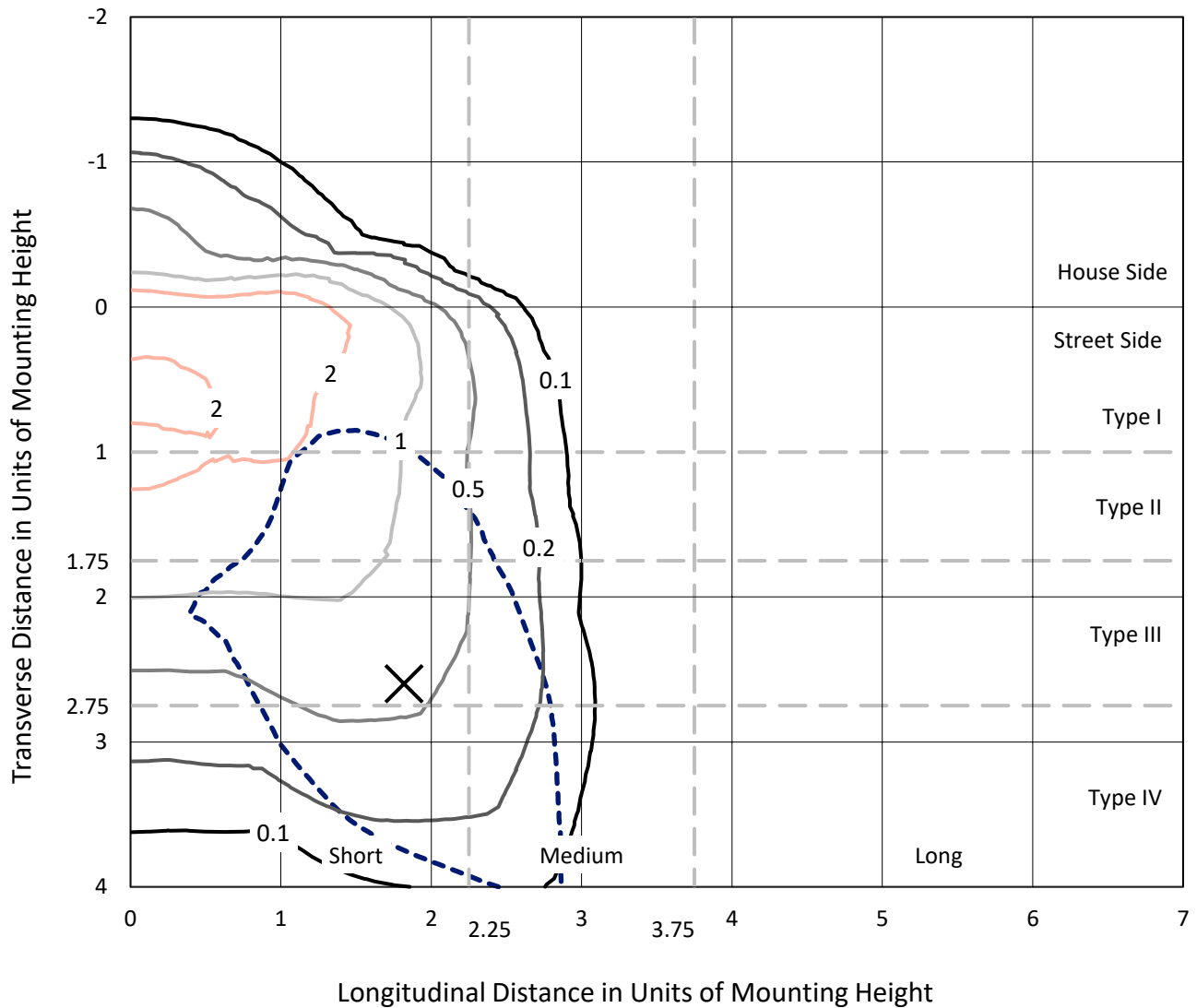
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

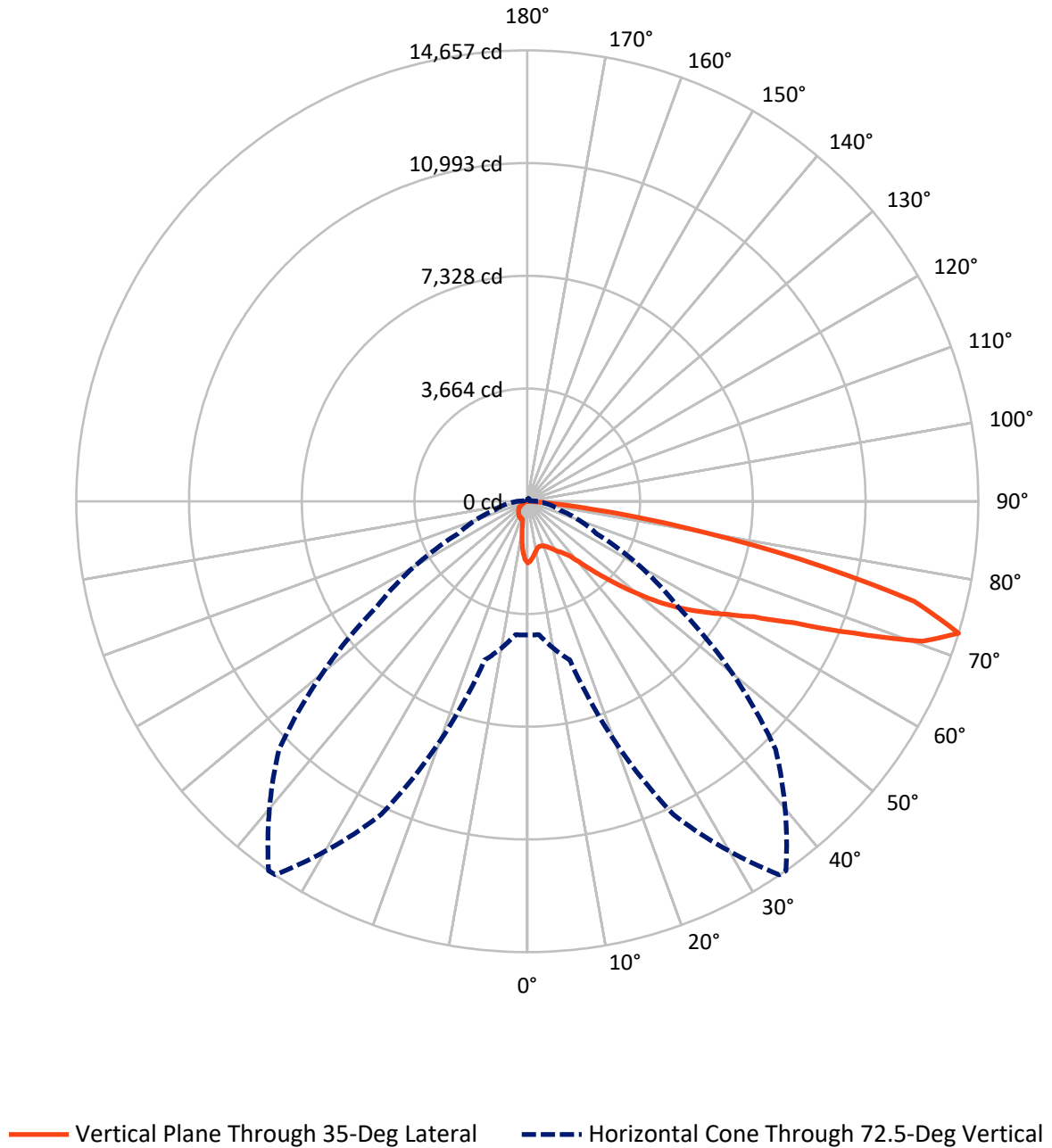
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1555.3	0.0	1555.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	12263.7	0.0	12263.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	13819.0	0.0	13819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	1.2
10°-20°	385.0	2.8
20°-30°	625.4	4.5
30°-40°	1043.6	7.6
40°-50°	1974.4	14.3
50°-60°	3137.4	22.7
60°-70°	3881.1	28.1
70°-80°	2412.5	17.5
80°-90°	195.0	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°	13819.0	100.0
0°-180°	13819.0	100.0

Coefficient of Utilization



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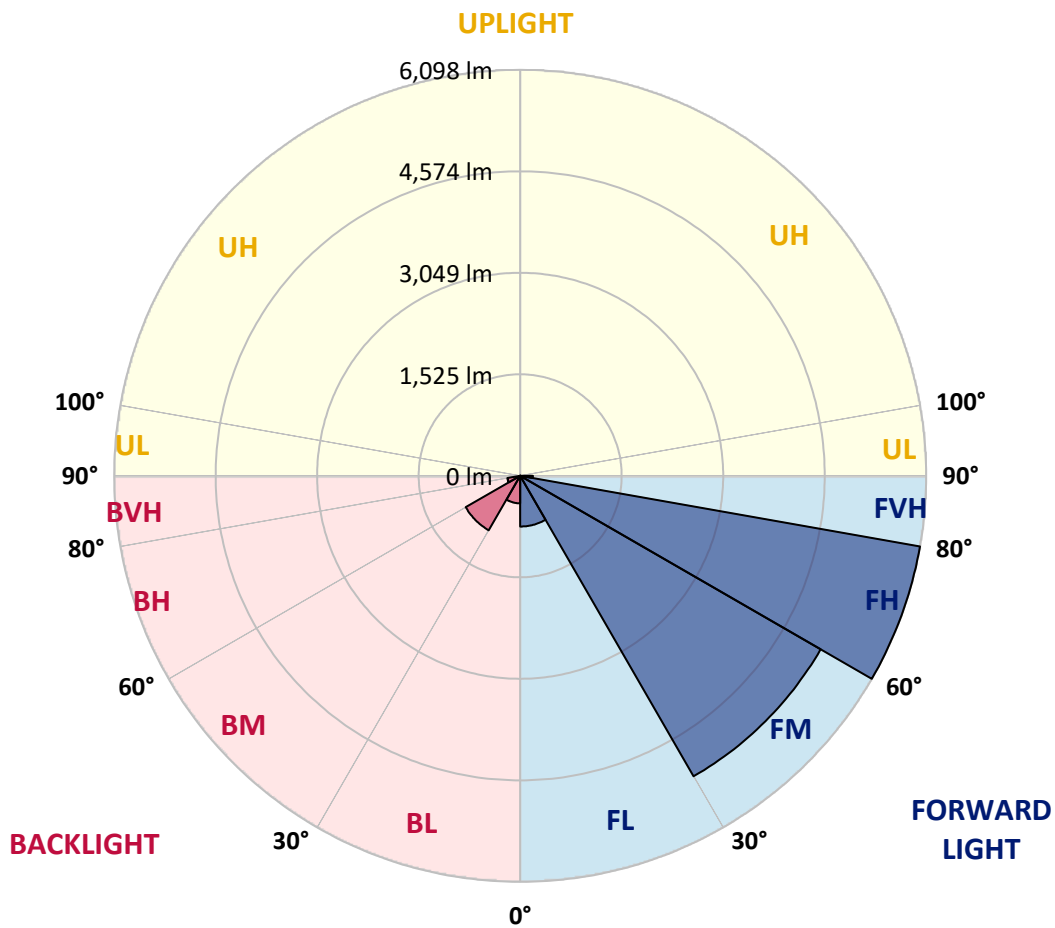
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	761.8	5.5			
FM (30°-60°)	5211.1	37.7			
FH (60°-80°)	6098.5	44.1			G3/7500
FVH (80°-90°)	192.3	1.4			G2/225
BL (0°-30°)	413.3	3.0	B1/500		
BM (30°-60°)	944.2	6.8	B1/1000		
BH (60°-80°)	195.2	1.4	B1/500		G1/500
BVH (80°-90°)	2.7	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°	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8
2.5°	1913.7	1929.9	1933.0	1938.0	1938.0	1944.1	1954.2	1968.4	1991.7	2003.8	2011.9
5°	1763.9	1776.0	1791.2	1803.4	1826.7	1829.7	1869.2	1907.7	1961.3	2001.8	2030.2
7.5°	1613.0	1627.2	1647.4	1676.8	1707.2	1716.3	1776.0	1840.8	1925.9	2001.8	2049.4
10°	1506.7	1507.7	1525.9	1555.3	1603.9	1615.0	1687.9	1780.1	1886.4	1989.7	2067.6
12.5°	1446.9	1454.0	1462.1	1484.4	1531.0	1538.1	1616.0	1724.4	1846.9	1982.6	2088.9
15°	1446.9	1452.0	1457.1	1468.2	1505.7	1511.7	1580.6	1688.9	1826.7	1985.6	2123.3
17.5°	1462.1	1470.2	1466.2	1479.3	1518.8	1522.9	1583.6	1678.8	1825.6	2004.9	2176.0
20°	1498.6	1504.7	1496.6	1504.7	1544.1	1552.2	1615.0	1698.1	1842.9	2038.3	2241.8
22.5°	1556.3	1559.3	1540.1	1546.2	1586.7	1596.8	1669.7	1752.7	1884.4	2091.9	2329.9
25°	1629.2	1635.3	1605.9	1613.0	1651.5	1663.6	1747.7	1834.8	1950.2	2165.9	2442.3
27.5°	1713.2	1716.3	1691.0	1690.0	1739.6	1756.8	1841.8	1936.0	2038.3	2259.0	2584.0
30°	1809.4	1818.6	1794.2	1790.2	1853.0	1867.2	1951.2	2060.6	2167.9	2398.7	2785.5
32.5°	1885.4	1892.5	1878.3	1888.4	1952.2	1963.3	2083.8	2236.7	2371.4	2597.2	3059.9
35°	1994.7	1998.8	1966.4	1984.6	2057.5	2085.9	2265.1	2483.8	2627.6	2846.3	3418.4
37.5°	2390.6	2390.6	2252.9	2162.8	2232.7	2258.0	2513.2	2794.7	2943.5	3180.4	3870.0
40°	2938.4	2929.3	2727.8	2543.5	2534.4	2584.0	2866.5	3186.5	3351.6	3581.4	4378.3
42.5°	3522.7	3508.5	3234.1	3051.8	3021.5	3038.7	3274.6	3669.5	3837.6	4070.5	4925.1
45°	4041.1	4037.1	3785.9	3540.9	3486.2	3540.9	3783.9	4234.5	4355.0	4600.0	5470.8
47.5°	4475.5	4475.5	4292.2	4132.2	4103.9	4136.3	4473.5	4861.3	4850.1	5164.0	6002.4
50°	4975.7	4971.7	4797.5	4728.6	4758.0	4803.6	5267.3	5521.5	5362.5	5717.9	6477.3
52.5°	5326.0	5350.3	5290.6	5279.5	5429.3	5508.3	6073.3	6167.5	5821.2	6243.4	6832.7
55°	5603.5	5631.8	5700.7	5778.7	6067.2	6170.5	6854.0	6780.1	6204.9	6699.1	7037.3
57.5°	5996.4	5955.9	6062.2	6216.1	6682.9	6807.4	7610.4	7358.2	6513.8	7068.7	7059.5
60°	6473.3	6479.3	6497.6	6692.0	7297.5	7457.5	8355.6	7905.0	6712.2	7295.5	6812.5
62.5°	7046.4	7055.5	7093.0	7391.7	8122.7	8273.6	9149.5	8352.6	6803.4	7231.7	6174.6
65°	7006.9	7045.4	7463.6	8485.2	9377.3	9526.1	10075.9	8666.5	6665.7	6648.4	5027.3
67.5°	6383.2	6445.9	7145.6	9791.4	11268.7	11434.8	11195.8	8728.2	6071.3	5170.1	3279.7
70°	5565.0	5587.3	6428.7	10966.0	13458.9	13627.0	12198.3	8048.8	4607.1	2883.8	1469.2
72.5°	4345.9	4351.0	5338.2	11238.4	14647.6	14656.8	11411.5	5975.1	2477.7	1107.7	510.3
75°	3104.5	3074.1	3575.3	9114.0	12886.8	12990.1	8555.1	2802.8	946.7	523.5	254.2
77.5°	1664.6	1698.1	2023.1	5405.0	8902.4	9078.6	4667.9	808.0	482.0	356.4	168.1
80°	514.4	542.7	829.3	2474.7	5042.5	5148.8	1730.5	359.5	336.2	254.2	110.4
82.5°	162.0	168.1	386.8	1039.9	2093.0	2141.6	501.2	203.5	229.9	168.1	64.8
85°	46.6	47.6	172.1	387.8	517.4	527.5	140.7	79.0	131.6	104.3	33.4
87.5°	5.1	16.2	64.8	64.8	45.6	44.6	15.2	17.2	37.5	13.2	6.1
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°	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8
2.5°	2006.9	2007.9	1994.7	1972.5	1948.2	1927.9	1902.6	1882.3	1868.2	1864.1	1871.2
5°	2021.1	2014.0	1976.5	1908.7	1827.7	1757.8	1679.8	1618.1	1577.6	1560.3	1566.4
7.5°	2042.3	2022.1	1940.1	1806.4	1651.5	1513.8	1374.0	1265.7	1196.8	1162.4	1167.5
10°	2060.6	2020.0	1879.3	1658.6	1421.6	1213.0	1024.7	894.1	821.2	786.8	787.8
12.5°	2077.8	2019.0	1800.3	1483.4	1162.4	907.3	732.1	667.3	647.0	639.9	637.9
15°	2110.2	2022.1	1701.1	1282.9	904.2	685.5	621.7	620.7	624.7	622.7	621.7
17.5°	2154.7	2025.1	1588.7	1070.3	697.7	604.5	601.5	610.6	616.6	613.6	612.6
20°	2212.4	2037.3	1469.2	859.7	599.4	584.2	591.3	599.4	604.5	599.4	598.4
22.5°	2293.4	2058.5	1338.6	690.6	568.0	572.1	578.2	587.3	592.3	585.3	584.2
25°	2392.7	2091.9	1210.0	600.4	552.9	557.9	567.0	577.2	583.2	576.1	575.1
27.5°	2521.3	2145.6	1091.5	580.2	537.7	540.7	553.9	569.1	577.2	568.0	568.0
30°	2707.6	2233.7	989.3	589.3	528.6	521.5	539.7	561.0	570.1	562.0	561.0
32.5°	2954.6	2358.2	926.5	603.5	524.5	499.2	516.4	543.7	558.9	553.9	553.9
35°	3278.7	2547.6	902.2	619.7	521.5	475.9	488.1	517.4	543.7	548.8	548.8
37.5°	3671.5	2810.9	909.3	626.8	512.4	456.7	462.7	488.1	522.5	538.7	542.7
40°	4118.1	3117.7	949.8	619.7	502.2	440.5	441.5	460.7	491.1	515.4	523.5
42.5°	4578.8	3476.1	1024.7	593.4	493.1	426.3	423.2	436.4	456.7	473.9	481.0
45°	5017.2	3844.7	1098.6	556.9	482.0	412.1	405.0	410.1	414.1	421.2	425.3
47.5°	5400.0	4103.9	1077.4	523.5	466.8	395.9	383.8	381.7	369.6	368.6	367.6
50°	5664.2	4160.6	956.9	490.1	444.5	377.7	358.4	346.3	325.0	314.9	315.9
52.5°	5748.3	3936.8	781.7	456.7	408.1	353.4	326.0	306.8	280.5	271.4	270.4
55°	5636.9	3498.4	624.7	416.2	357.4	321.0	290.6	265.3	244.0	232.9	232.9
57.5°	5364.5	2940.5	494.1	368.6	303.8	284.5	254.2	228.8	210.6	199.5	197.4
60°	4912.9	2335.0	390.8	311.9	259.2	245.0	213.6	197.4	181.2	168.1	165.0
62.5°	4227.4	1666.7	306.8	247.1	216.7	200.5	182.3	170.1	150.9	132.6	129.6
65°	3298.9	1019.6	236.9	181.2	174.2	166.1	154.9	143.8	120.5	102.3	99.2
67.5°	2080.8	483.0	169.1	136.7	137.7	133.7	128.6	119.5	102.3	86.1	84.0
70°	916.4	233.9	111.4	104.3	102.3	102.3	106.3	103.3	87.1	71.9	68.9
72.5°	311.9	125.6	83.0	79.0	73.9	72.9	89.1	86.1	69.9	55.7	52.7
75°	163.0	84.0	60.8	56.7	44.6	53.7	70.9	66.8	49.6	36.5	33.4
77.5°	106.3	59.7	41.5	36.5	25.3	35.4	52.7	46.6	29.4	18.2	16.2
80°	66.8	39.5	24.3	17.2	12.2	19.2	28.4	20.3	11.1	4.1	3.0
82.5°	35.4	20.3	9.1	6.1	5.1	6.1	7.1	5.1	2.0	0.0	0.0
85°	14.2	7.1	3.0	2.0	1.0	0.0	2.0	1.0	0.0	0.0	0.0
87.5°	5.1	1.0	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)