

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: P883320

Luminaire Tested: **NAV-SB3C-835-U-T4FT-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883320  
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-835-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

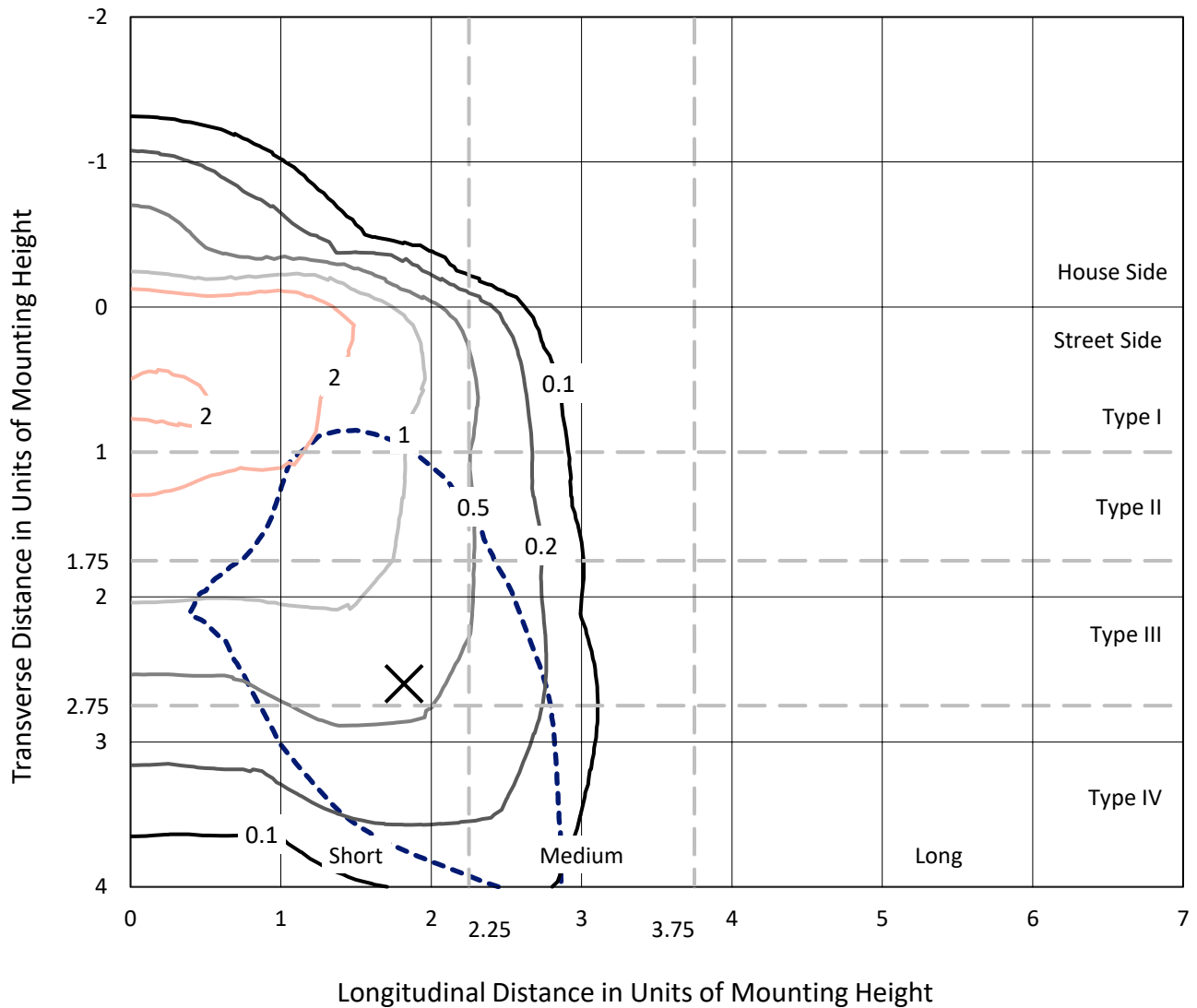
Lumens per Lamp: N/A  
Luminaire Lumens: 14350 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): 120.0  
Input Current (Ain): 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

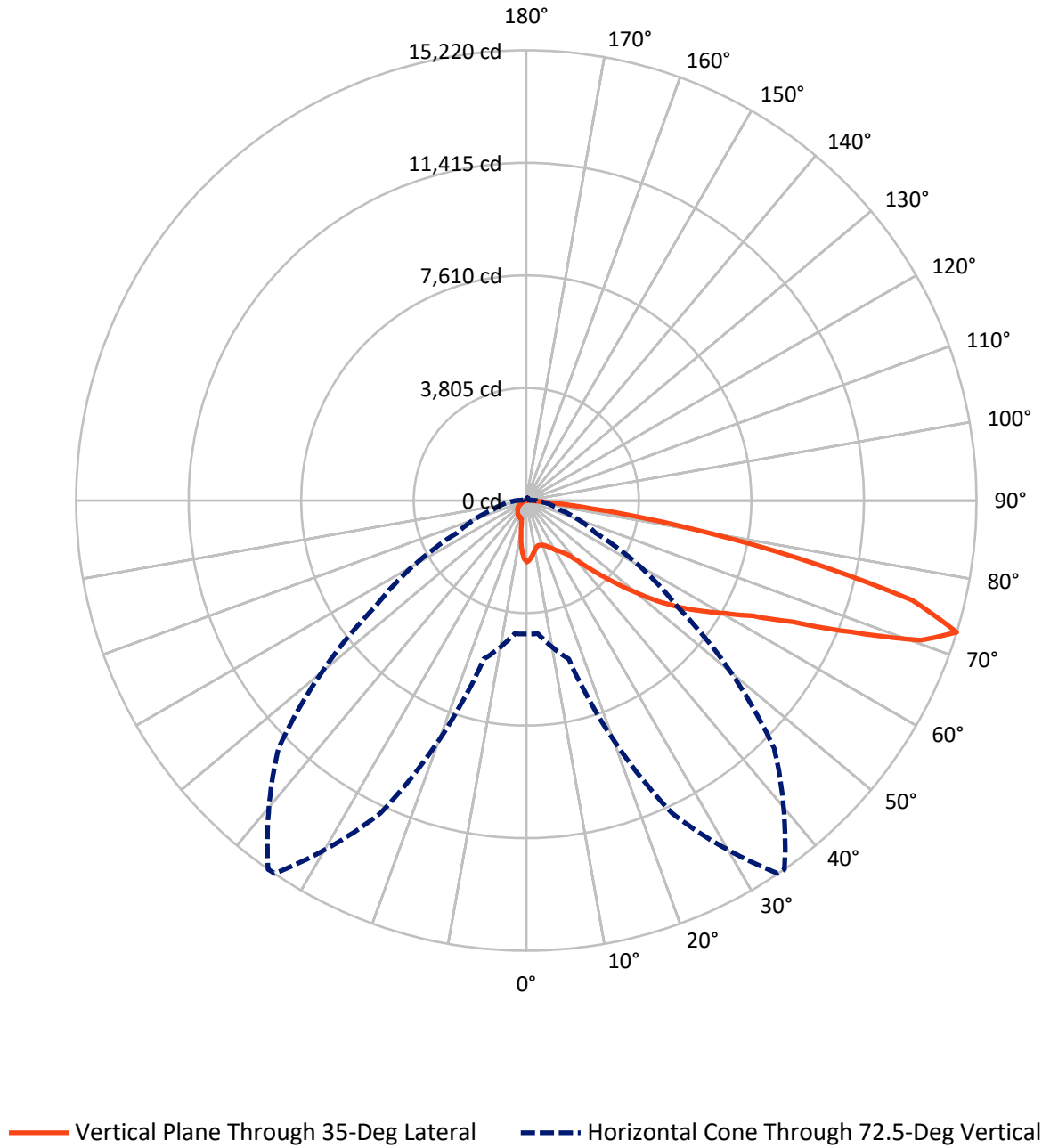
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1615.0	0.0	1615.0
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	12735.0	0.0	12735.0
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	14350.0	0.0	14350.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.9	1.2
10°-20°	399.8	2.8
20°-30°	649.5	4.5
30°-40°	1083.6	7.6
40°-50°	2050.3	14.3
50°-60°	3257.9	22.7
60°-70°	4030.3	28.1
70°-80°	2505.2	17.5
80°-90°	202.5	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°	14350.0	100.0
0°-180°	14350.0	100.0

**Coefficient of Utilization**



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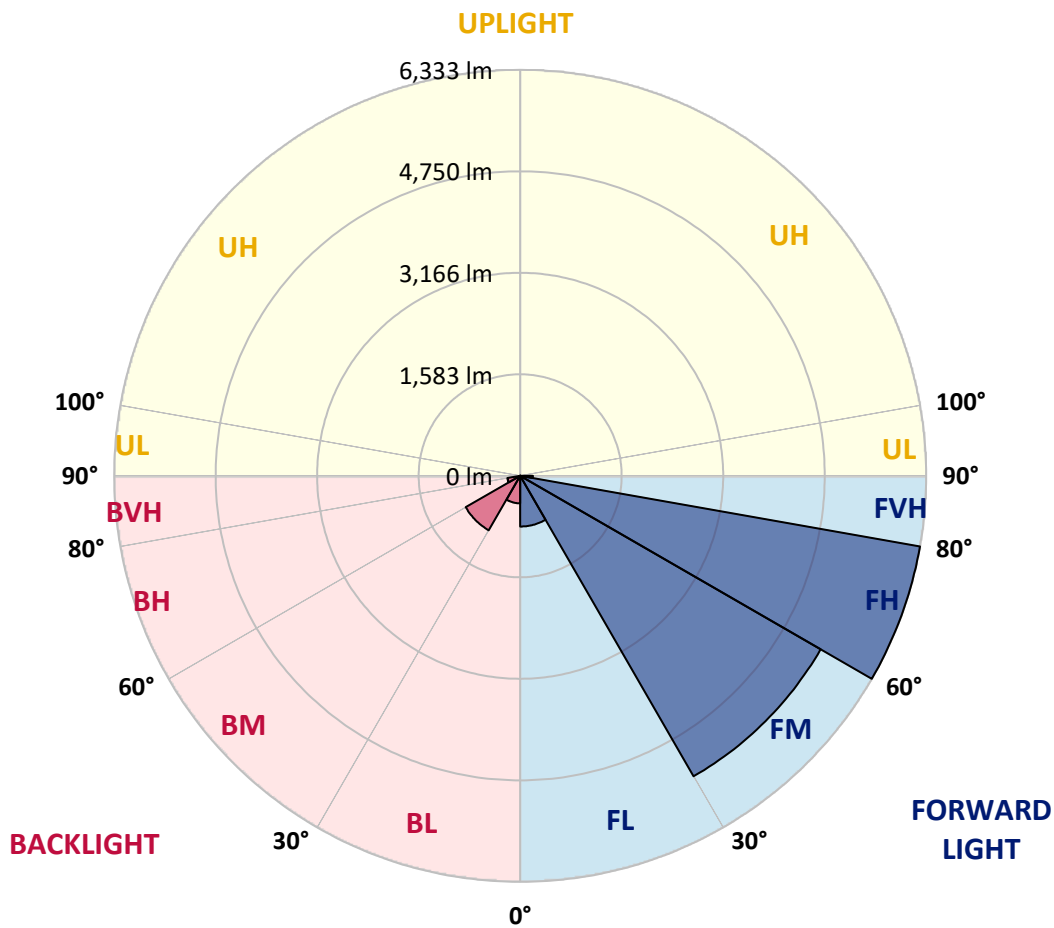
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	791.0	5.5			
FM (30°-60°)	5411.4	37.7			
FH (60°-80°)	6332.8	44.1			G3/7500
FVH (80°-90°)	199.7	1.4			G2/225
BL (0°-30°)	429.1	3.0	B1/500		
BM (30°-60°)	980.5	6.8	B1/1000		
BH (60°-80°)	202.7	1.4	B1/500		G1/500
BVH (80°-90°)	2.8	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°	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8
2.5°	1987.3	2004.1	2007.2	2012.5	2012.5	2018.8	2029.3	2044.0	2068.2	2080.8	2089.3
5°	1831.7	1844.3	1860.0	1872.7	1896.8	1900.0	1941.0	1981.0	2036.7	2078.7	2108.2
7.5°	1675.0	1689.7	1710.7	1741.2	1772.8	1782.2	1844.3	1911.6	1999.9	2078.7	2128.2
10°	1564.6	1565.6	1584.6	1615.0	1665.5	1677.1	1752.8	1848.5	1958.9	2066.1	2147.1
12.5°	1502.5	1509.9	1518.3	1541.4	1589.8	1597.2	1678.1	1790.6	1917.9	2058.8	2169.2
15°	1502.5	1507.8	1513.1	1524.6	1563.5	1569.8	1641.3	1753.8	1896.8	2061.9	2204.9
17.5°	1518.3	1526.7	1522.5	1536.2	1577.2	1581.4	1644.5	1743.3	1895.8	2081.9	2259.6
20°	1556.2	1562.5	1554.1	1562.5	1603.5	1611.9	1677.1	1763.3	1913.7	2116.6	2327.9
22.5°	1616.1	1619.3	1599.3	1605.6	1647.6	1658.2	1733.9	1820.1	1956.8	2172.3	2419.4
25°	1691.8	1698.1	1667.6	1675.0	1714.9	1727.6	1814.8	1905.3	2025.1	2249.1	2536.1
27.5°	1779.1	1782.2	1755.9	1754.9	1806.4	1824.3	1912.6	2010.4	2116.6	2345.8	2683.3
30°	1879.0	1888.4	1863.2	1859.0	1924.2	1938.9	2026.2	2139.7	2251.2	2490.9	2892.6
32.5°	1957.8	1965.2	1950.5	1961.0	2027.2	2038.8	2163.9	2322.7	2462.5	2697.0	3177.5
35°	2071.4	2075.6	2041.9	2060.9	2136.6	2166.0	2352.1	2579.2	2728.5	2955.7	3549.7
37.5°	2482.5	2482.5	2339.5	2245.9	2318.5	2344.8	2609.7	2902.0	3056.6	3302.6	4018.7
40°	3051.3	3041.9	2832.6	2641.3	2631.8	2683.3	2976.7	3309.0	3480.3	3719.0	4546.5
42.5°	3658.0	3643.3	3358.4	3169.1	3137.6	3155.4	3400.4	3810.5	3985.0	4226.9	5114.3
45°	4196.4	4192.2	3931.4	3677.0	3620.2	3677.0	3929.3	4397.2	4522.3	4776.8	5681.1
47.5°	4647.5	4647.5	4457.2	4291.0	4261.6	4295.2	4645.4	5048.1	5036.5	5362.5	6233.1
50°	5166.9	5162.7	4981.8	4910.3	4940.8	4988.1	5469.7	5733.6	5568.6	5937.6	6726.2
52.5°	5530.7	5555.9	5493.9	5482.3	5638.0	5720.0	6306.7	6404.5	6044.9	6483.3	7095.3
55°	5818.8	5848.2	5919.7	6000.7	6300.4	6407.6	7117.4	7040.6	6443.4	6956.5	7307.7
57.5°	6226.8	6184.7	6295.1	6454.9	6939.7	7069.0	7902.8	7641.0	6764.1	7340.3	7330.8
60°	6722.0	6728.3	6747.2	6949.1	7577.9	7744.0	8676.7	8208.8	6970.2	7575.8	7074.3
62.5°	7317.1	7326.6	7365.5	7675.7	8434.8	8591.5	9501.0	8673.5	7064.8	7509.6	6411.8
65°	7276.1	7316.1	7750.3	8811.3	9737.6	9892.2	10463.1	8999.5	6921.8	6903.9	5220.5
67.5°	6628.4	6693.6	7420.2	10167.7	11701.7	11874.2	11626.0	9063.6	6304.6	5368.8	3405.7
70°	5778.8	5802.0	6675.7	11387.4	13976.1	14150.6	12667.0	8358.1	4784.2	2994.6	1525.7
72.5°	4512.9	4518.1	5543.3	11670.2	15210.5	15219.9	11850.0	6204.7	2572.9	1150.3	529.9
75°	3223.8	3192.2	3712.7	9464.2	13382.0	13489.2	8883.8	2910.5	983.1	543.6	263.9
77.5°	1728.6	1763.3	2100.8	5612.7	9244.5	9427.4	4847.2	839.1	500.5	370.1	174.5
80°	534.1	563.6	861.1	2569.8	5236.3	5346.7	1797.0	373.3	349.1	263.9	114.6
82.5°	168.2	174.5	401.7	1079.9	2173.4	2223.8	520.5	211.3	238.7	174.5	67.3
85°	48.4	49.4	178.7	402.7	537.3	547.8	146.2	82.0	136.7	108.3	34.7
87.5°	5.3	16.8	67.3	67.3	47.3	46.3	15.8	17.9	38.9	13.7	6.3
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°	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8
2.5°	2084.0	2085.1	2071.4	2048.3	2023.0	2002.0	1975.7	1954.7	1940.0	1935.7	1943.1
5°	2098.7	2091.4	2052.5	1982.0	1897.9	1825.3	1744.4	1680.2	1638.2	1620.3	1626.6
7.5°	2120.8	2099.8	2014.6	1875.8	1714.9	1571.9	1426.8	1314.3	1242.8	1207.1	1212.3
10°	2139.7	2097.7	1951.5	1722.3	1476.3	1259.7	1064.1	928.4	852.7	817.0	818.0
12.5°	2157.6	2096.6	1869.5	1540.4	1207.1	942.1	760.2	692.9	671.9	664.5	662.4
15°	2191.3	2099.8	1766.5	1332.2	939.0	711.8	645.6	644.5	648.8	646.7	645.6
17.5°	2237.5	2102.9	1649.7	1111.4	724.5	627.7	624.6	634.0	640.3	637.2	636.1
20°	2297.4	2115.5	1525.7	892.7	622.5	606.7	614.1	622.5	627.7	622.5	621.4
22.5°	2381.6	2137.6	1390.0	717.1	589.9	594.1	600.4	609.8	615.1	607.7	606.7
25°	2484.6	2172.3	1256.5	623.5	574.1	579.4	588.8	599.3	605.6	598.3	597.2
27.5°	2618.1	2228.1	1133.5	602.5	558.3	561.5	575.2	590.9	599.3	589.9	589.9
30°	2811.6	2319.5	1027.3	612.0	548.9	541.5	560.4	582.5	592.0	583.6	582.5
32.5°	3068.2	2448.9	962.1	626.7	544.7	518.4	536.2	564.6	580.4	575.2	575.2
35°	3404.6	2645.5	936.9	643.5	541.5	494.2	506.8	537.3	564.6	569.9	569.9
37.5°	3812.6	2918.9	944.2	650.9	532.0	474.2	480.5	506.8	542.6	559.4	563.6
40°	4276.3	3237.5	986.3	643.5	521.5	457.4	458.4	478.4	510.0	535.2	543.6
42.5°	4754.7	3609.7	1064.1	616.2	512.1	442.7	439.5	453.2	474.2	492.1	499.4
45°	5210.0	3992.4	1140.8	578.3	500.5	427.9	420.6	425.8	430.0	437.4	441.6
47.5°	5607.5	4261.6	1118.8	543.6	484.7	411.1	398.5	396.4	383.8	382.7	381.7
50°	5881.9	4320.5	993.6	508.9	461.6	392.2	372.2	359.6	337.5	327.0	328.1
52.5°	5969.2	4088.1	811.7	474.2	423.7	367.0	338.6	318.6	291.3	281.8	280.7
55°	5853.5	3632.8	648.8	432.2	371.2	333.3	301.8	275.5	253.4	241.8	241.8
57.5°	5570.7	3053.5	513.1	382.7	315.4	295.5	263.9	237.6	218.7	207.1	205.0
60°	5101.7	2424.7	405.9	323.9	269.2	254.5	221.9	205.0	188.2	174.5	171.4
62.5°	4389.9	1730.7	318.6	256.6	225.0	208.2	189.3	176.6	156.7	137.7	134.6
65°	3425.7	1058.8	246.0	188.2	180.9	172.4	160.9	149.3	125.1	106.2	103.0
67.5°	2160.8	501.5	175.6	141.9	143.0	138.8	133.5	124.1	106.2	89.4	87.3
70°	951.6	242.9	115.7	108.3	106.2	106.2	110.4	107.2	90.4	74.7	71.5
72.5°	323.9	130.4	86.2	82.0	76.8	75.7	92.5	89.4	72.6	57.8	54.7
75°	169.3	87.3	63.1	58.9	46.3	55.7	73.6	69.4	51.5	37.9	34.7
77.5°	110.4	62.0	43.1	37.9	26.3	36.8	54.7	48.4	30.5	18.9	16.8
80°	69.4	41.0	25.2	17.9	12.6	20.0	29.4	21.0	11.6	4.2	3.2
82.5°	36.8	21.0	9.5	6.3	5.3	6.3	7.4	5.3	2.1	0.0	0.0
85°	14.7	7.4	3.2	2.1	1.1	0.0	2.1	1.1	0.0	0.0	0.0
87.5°	5.3	1.1	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)