

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: P883230

Luminaire Tested: **NAV-SB3C-722-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883230
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-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 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: 13553 lumens
Efficiency: N/A
Efficacy: 90.9 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

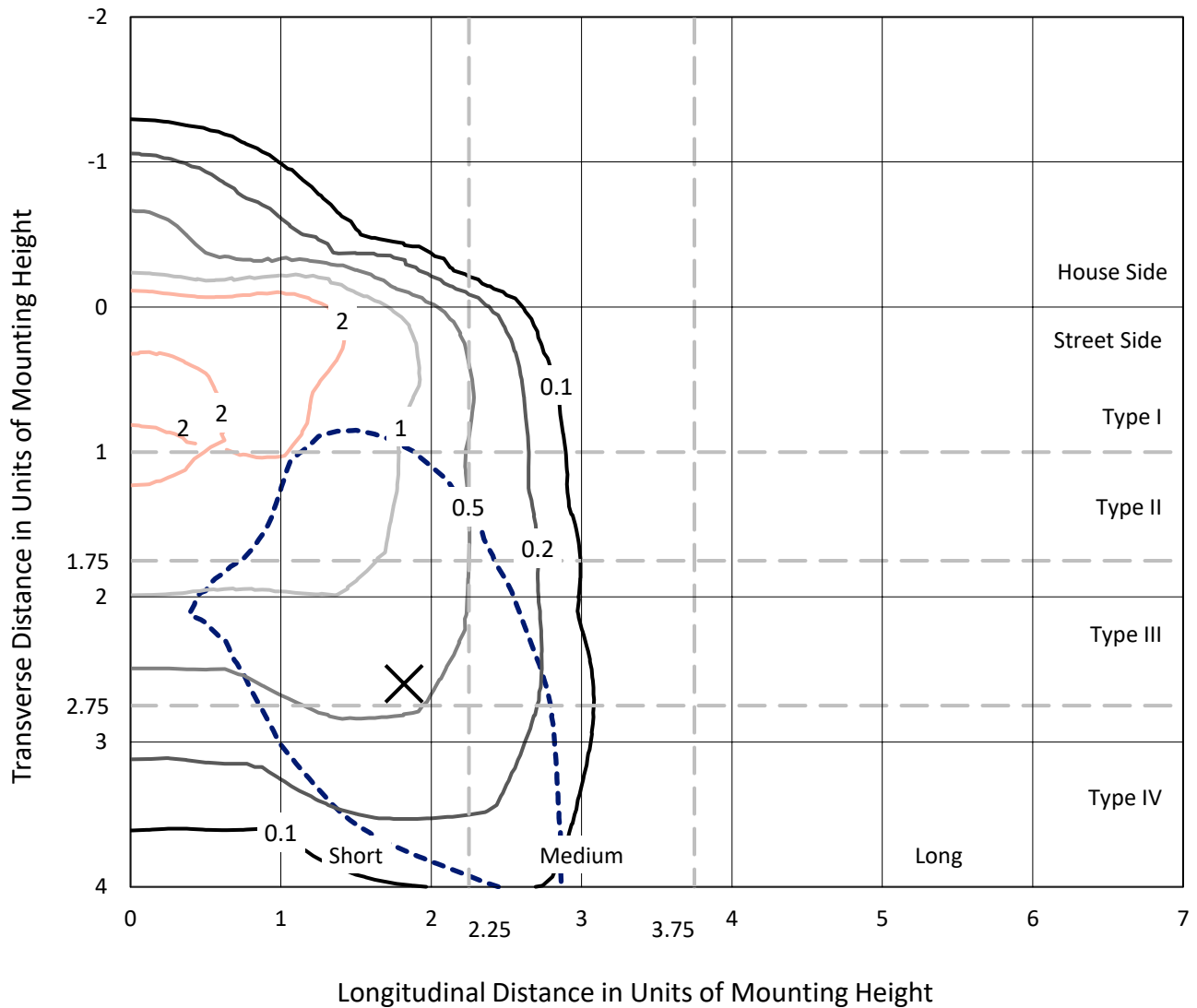
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P883230
 CATALOG NUMBER: NAV-SB3C-722-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

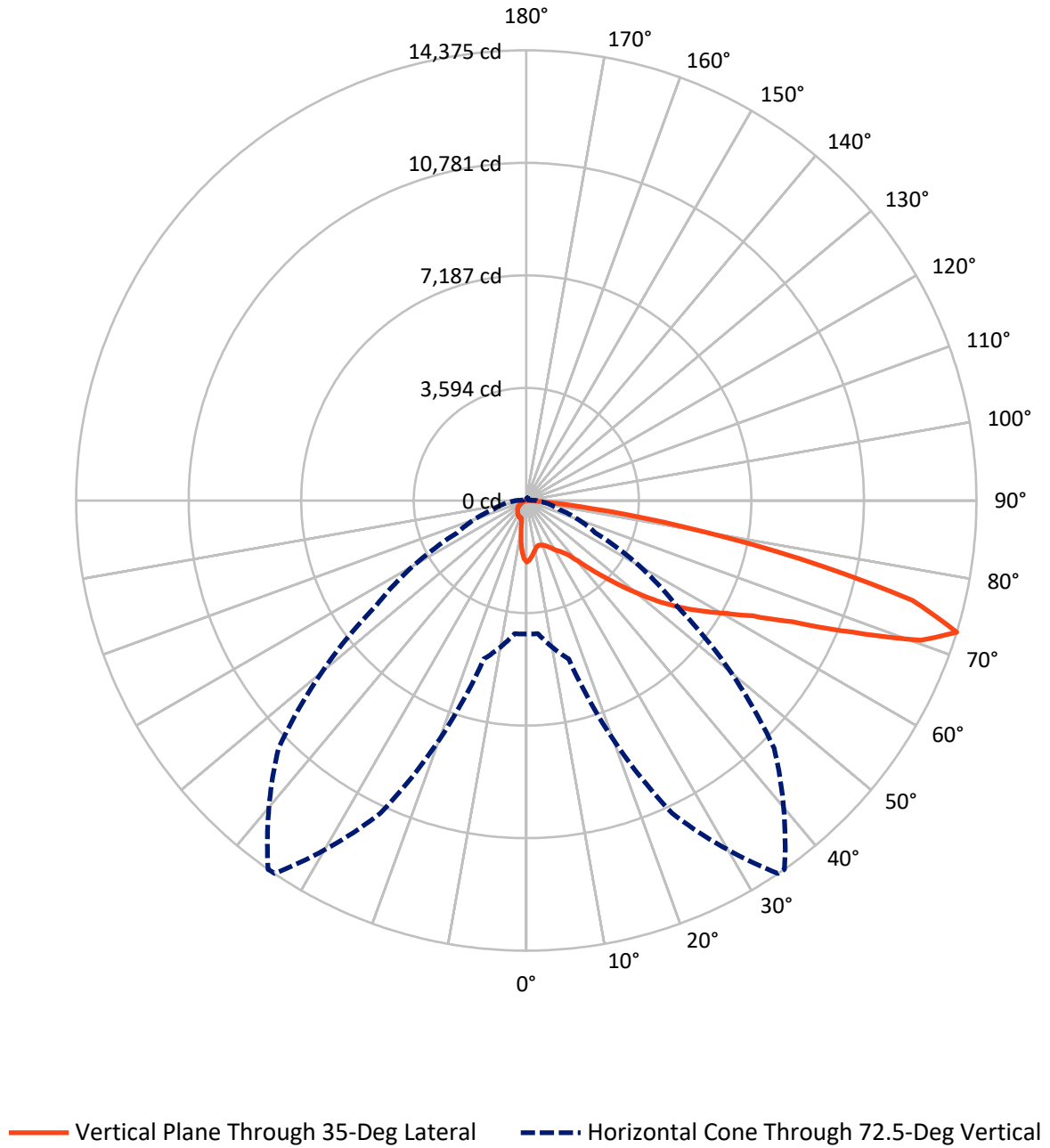
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P883230
CATALOG NUMBER: NAV-SB3C-722-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P883230
 CATALOG NUMBER: NAV-SB3C-722-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1525.3	0.0	1525.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	12027.7	0.0	12027.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	13553.0	0.0	13553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	1.2
10°-20°	377.6	2.8
20°-30°	613.4	4.5
30°-40°	1023.5	7.6
40°-50°	1936.4	14.3
50°-60°	3077.0	22.7
60°-70°	3806.4	28.1
70°-80°	2366.1	17.5
80°-90°	191.2	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°	13553.0	100.0
0°-180°	13553.0	100.0

Coefficient of Utilization



REPORT NUMBER: P883230

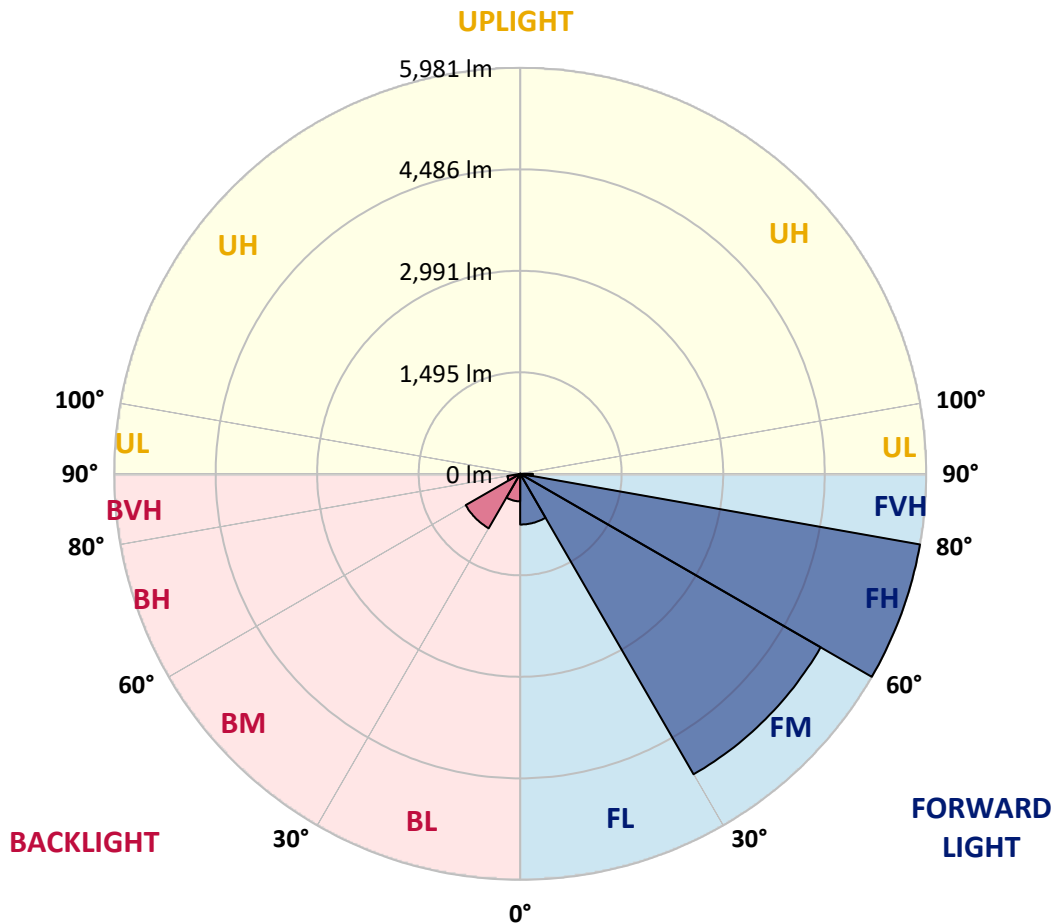
CATALOG NUMBER: NAV-SB3C-722-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	747.1	5.5			
FM (30°-60°)	5110.8	37.7			
FH (60°-80°)	5981.1	44.1			G3/7500
FVH (80°-90°)	188.6	1.4			G2/225
BL (0°-30°)	405.3	3.0	B1/500		
BM (30°-60°)	926.0	6.8	B1/1000		
BH (60°-80°)	191.4	1.4	B1/500		G1/500
BVH (80°-90°)	2.6	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



REPORT NUMBER: P883230
 CATALOG NUMBER: NAV-SB3C-722-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3
2.5°	1876.9	1892.8	1895.8	1900.7	1900.7	1906.7	1916.6	1930.5	1953.4	1965.3	1973.2
5°	1729.9	1741.8	1756.7	1768.7	1791.5	1794.5	1833.2	1870.9	1923.6	1963.3	1991.1
7.5°	1582.0	1595.9	1615.7	1644.5	1674.3	1683.2	1741.8	1805.4	1888.8	1963.3	2010.0
10°	1477.7	1478.7	1496.6	1525.3	1573.0	1583.9	1655.4	1745.8	1850.1	1951.4	2027.8
12.5°	1419.1	1426.0	1434.0	1455.8	1501.5	1508.5	1584.9	1691.2	1811.4	1944.4	2048.7
15°	1419.1	1424.1	1429.0	1439.9	1476.7	1482.6	1550.2	1656.4	1791.5	1947.4	2082.5
17.5°	1434.0	1441.9	1438.0	1450.9	1489.6	1493.6	1553.2	1646.5	1790.5	1966.3	2134.1
20°	1469.7	1475.7	1467.8	1475.7	1514.4	1522.4	1583.9	1665.4	1807.4	1999.0	2198.6
22.5°	1526.3	1529.3	1510.5	1516.4	1556.1	1566.1	1637.6	1719.0	1848.1	2051.7	2285.0
25°	1597.8	1603.8	1575.0	1582.0	1619.7	1631.6	1714.0	1799.4	1912.6	2124.2	2395.3
27.5°	1680.3	1683.2	1658.4	1657.4	1706.1	1723.0	1806.4	1898.7	1999.0	2215.5	2534.3
30°	1774.6	1783.5	1759.7	1755.7	1817.3	1831.2	1913.6	2020.9	2126.2	2352.6	2731.9
32.5°	1849.1	1856.0	1842.1	1852.1	1914.6	1925.6	2043.7	2193.7	2325.8	2547.2	3001.0
35°	1956.3	1960.3	1928.5	1946.4	2017.9	2045.7	2221.5	2436.0	2577.0	2791.5	3352.6
37.5°	2344.6	2344.6	2209.6	2121.2	2189.7	2214.5	2464.8	2740.9	2886.8	3119.2	3795.5
40°	2881.9	2872.9	2675.3	2494.6	2485.6	2534.3	2811.4	3125.2	3287.0	3512.5	4294.0
42.5°	3454.9	3441.0	3171.9	2993.1	2963.3	2980.2	3211.6	3598.9	3763.7	3992.1	4830.3
45°	3963.3	3959.4	3713.1	3472.8	3419.1	3472.8	3711.1	4153.0	4271.2	4511.5	5365.5
47.5°	4389.4	4389.4	4209.6	4052.7	4024.9	4056.7	4387.4	4767.7	4756.8	5064.6	5886.9
50°	4879.9	4876.0	4705.1	4637.6	4666.4	4711.1	5165.9	5415.2	5259.3	5607.8	6352.6
52.5°	5223.5	5247.4	5188.8	5177.8	5324.8	5402.3	5956.4	6048.8	5709.1	6123.2	6701.2
55°	5495.6	5523.4	5591.0	5667.4	5950.5	6051.7	6722.1	6649.6	6085.5	6570.1	6901.8
57.5°	5880.9	5841.2	5945.5	6096.4	6554.2	6676.4	7463.9	7216.6	6388.4	6932.6	6923.7
60°	6348.7	6354.6	6372.5	6563.2	7157.0	7313.9	8194.8	7752.9	6583.0	7155.0	6681.3
62.5°	6910.7	6919.7	6956.4	7249.4	7966.4	8114.3	8973.3	8191.8	6672.4	7092.5	6055.7
65°	6872.0	6909.8	7319.9	8321.9	9196.8	9342.8	9882.0	8499.6	6537.4	6520.5	4930.6
67.5°	6260.3	6321.9	7008.1	9602.9	11051.8	11214.7	10980.3	8560.2	5954.4	5070.6	3216.5
70°	5457.9	5479.7	6305.0	10754.9	13199.8	13364.7	11963.5	7893.9	4518.4	2828.3	1440.9
72.5°	4262.2	4267.2	5235.4	11022.0	14365.7	14374.6	11191.9	5860.1	2430.0	1086.4	500.5
75°	3044.7	3014.9	3506.5	8938.6	12638.7	12740.0	8390.4	2748.8	928.5	513.4	249.3
77.5°	1632.6	1665.4	1984.1	5301.0	8731.0	8903.8	4578.0	792.5	472.7	349.6	164.8
80°	504.5	532.3	813.3	2427.1	4945.5	5049.7	1697.1	352.5	329.7	249.3	108.2
82.5°	158.9	164.8	379.4	1019.9	2052.7	2100.3	491.6	199.6	225.4	164.8	63.6
85°	45.7	46.7	168.8	380.3	507.5	517.4	138.0	77.5	129.1	102.3	32.8
87.5°	5.0	15.9	63.6	63.6	44.7	43.7	14.9	16.9	36.7	12.9	6.0
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: P883230
 CATALOG NUMBER: NAV-SB3C-722-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3	1964.3
2.5°	1968.3	1969.2	1956.3	1934.5	1910.7	1890.8	1866.0	1846.1	1832.2	1828.2	1835.2
5°	1982.2	1975.2	1938.5	1871.9	1792.5	1724.0	1647.5	1586.9	1547.2	1530.3	1536.3
7.5°	2003.0	1983.2	1902.7	1771.6	1619.7	1484.6	1347.6	1241.3	1173.8	1140.0	1145.0
10°	2020.9	1981.2	1843.1	1626.6	1394.3	1189.7	1005.0	876.9	805.4	771.6	772.6
12.5°	2037.8	1980.2	1765.7	1454.8	1140.0	889.8	718.0	654.4	634.6	627.6	625.6
15°	2069.5	1983.2	1668.4	1258.2	886.8	672.3	609.7	608.7	612.7	610.7	609.7
17.5°	2113.2	1986.1	1558.1	1049.7	684.2	592.9	589.9	598.8	604.8	601.8	600.8
20°	2169.8	1998.0	1440.9	843.1	587.9	573.0	580.0	587.9	592.9	587.9	586.9
22.5°	2249.3	2018.9	1312.8	677.3	557.1	561.1	567.0	576.0	580.9	574.0	573.0
25°	2346.6	2051.7	1186.7	588.9	542.2	547.2	556.1	566.0	572.0	565.1	564.1
27.5°	2472.7	2104.3	1070.5	569.0	527.3	530.3	543.2	558.1	566.0	557.1	557.1
30°	2655.5	2190.7	970.2	578.0	518.4	511.4	529.3	550.2	559.1	551.2	550.2
32.5°	2897.8	2312.9	908.7	591.9	514.4	489.6	506.5	533.3	548.2	543.2	543.2
35°	3215.5	2498.6	884.8	607.8	511.4	466.7	478.7	507.5	533.3	538.2	538.2
37.5°	3600.9	2756.8	891.8	614.7	502.5	447.9	453.8	478.7	512.4	528.3	532.3
40°	4038.8	3057.6	931.5	607.8	492.6	432.0	433.0	451.8	481.6	505.5	513.4
42.5°	4490.6	3409.2	1005.0	581.9	483.6	418.1	415.1	428.0	447.9	464.8	471.7
45°	4920.6	3770.7	1077.5	546.2	472.7	404.2	397.2	402.2	406.2	413.1	417.1
47.5°	5296.0	4024.9	1056.6	513.4	457.8	388.3	376.4	374.4	362.5	361.5	360.5
50°	5555.2	4080.5	938.4	480.6	436.0	370.4	351.5	339.6	318.8	308.8	309.8
52.5°	5637.6	3861.0	766.6	447.9	400.2	346.6	319.8	300.9	275.1	266.1	265.1
55°	5528.4	3431.0	612.7	408.2	350.6	314.8	285.0	260.2	239.3	228.4	228.4
57.5°	5261.3	2883.9	484.6	361.5	297.9	279.1	249.3	224.4	206.6	195.6	193.6
60°	4818.4	2290.0	383.3	305.9	254.2	240.3	209.5	193.6	177.8	164.8	161.9
62.5°	4146.0	1634.6	300.9	242.3	212.5	196.6	178.8	166.8	148.0	130.1	127.1
65°	3235.4	1000.0	232.4	177.8	170.8	162.9	151.9	141.0	118.2	100.3	97.3
67.5°	2040.8	473.7	165.8	134.1	135.1	131.1	126.1	117.2	100.3	84.4	82.4
70°	898.7	229.4	109.2	102.3	100.3	100.3	104.3	101.3	85.4	70.5	67.5
72.5°	305.9	123.1	81.4	77.5	72.5	71.5	87.4	84.4	68.5	54.6	51.6
75°	159.9	82.4	59.6	55.6	43.7	52.6	69.5	65.5	48.7	35.8	32.8
77.5°	104.3	58.6	40.7	35.8	24.8	34.8	51.6	45.7	28.8	17.9	15.9
80°	65.5	38.7	23.8	16.9	11.9	18.9	27.8	19.9	10.9	4.0	3.0
82.5°	34.8	19.9	8.9	6.0	5.0	6.0	7.0	5.0	2.0	0.0	0.0
85°	13.9	7.0	3.0	2.0	1.0	0.0	2.0	1.0	0.0	0.0	0.0
87.5°	5.0	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)