

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: STREETWORKS

Report Number: P883590

Luminaire Tested: **NVN-SB4A-730-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883590
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: STREETWORKS
Catalog Number: NVN-SB4A-730-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 350mA 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: 13549 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

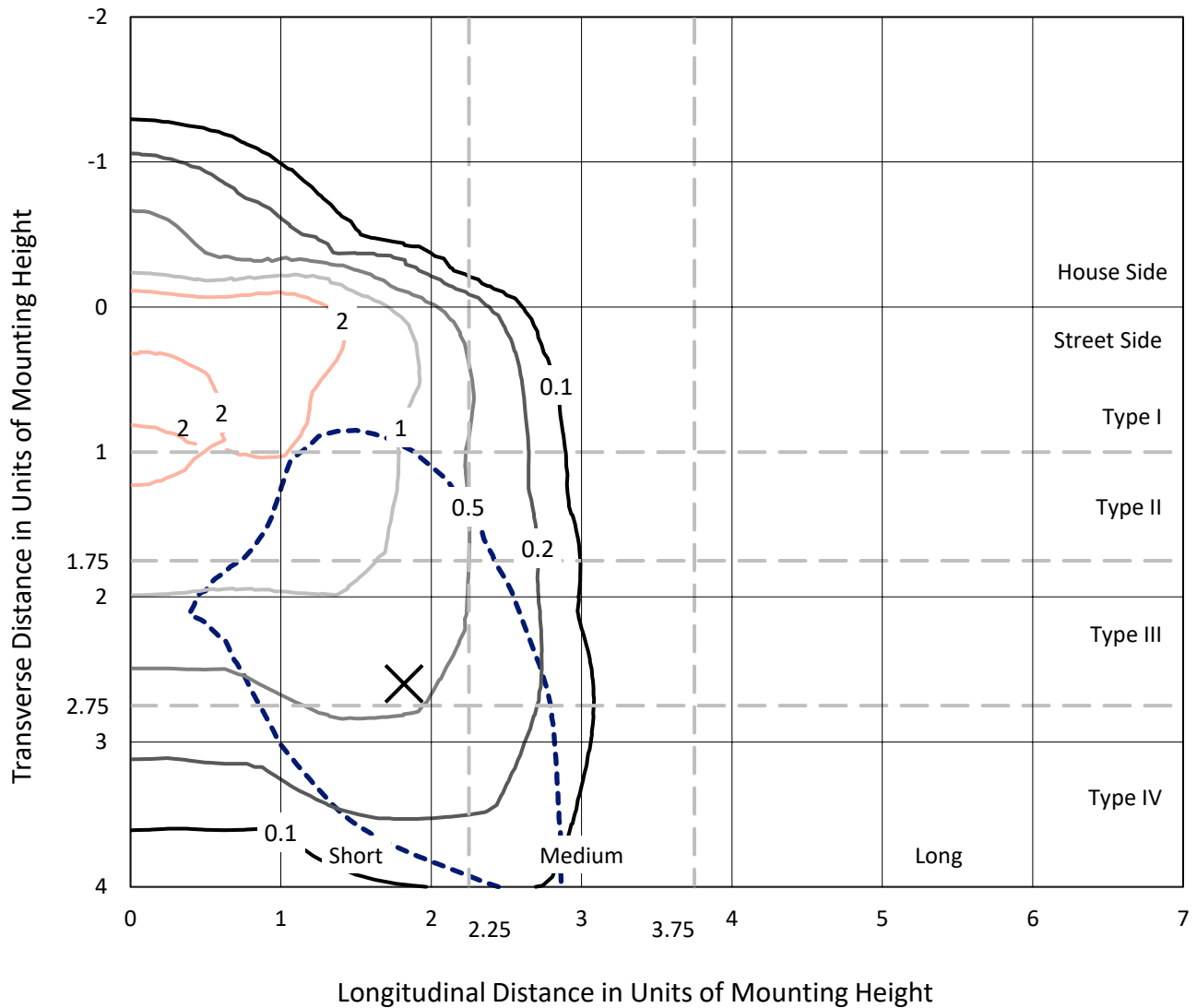
Input Watts (W): 114
Input Voltage (V): 120.0
Input Current (Ain): 0.952
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.206
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

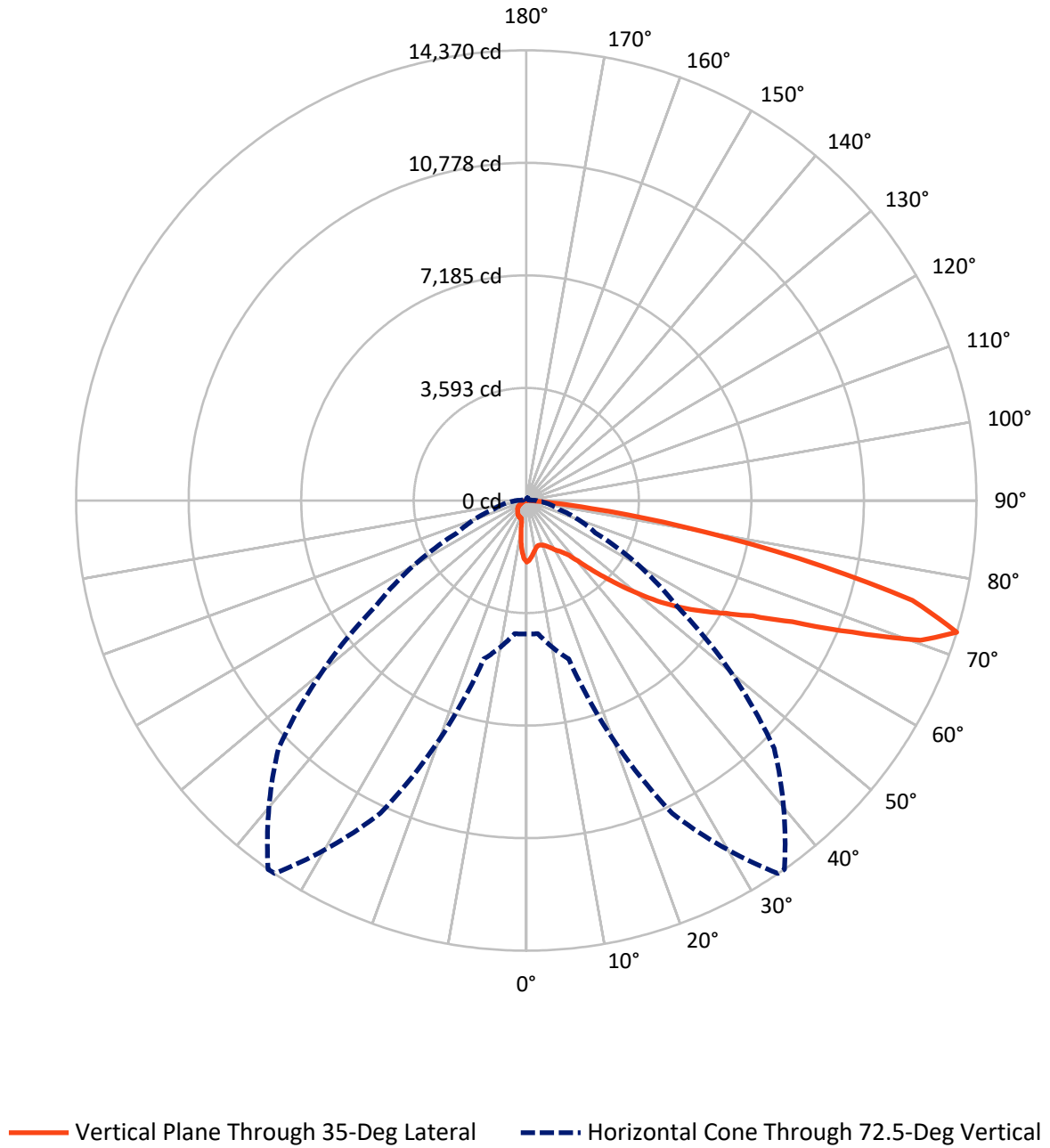
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	1524.9	0.0	1524.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	12024.1	0.0	12024.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	13549.0	0.0	13549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	1.2
10°-20°	377.5	2.8
20°-30°	613.2	4.5
30°-40°	1023.2	7.6
40°-50°	1935.9	14.3
50°-60°	3076.1	22.7
60°-70°	3805.3	28.1
70°-80°	2365.4	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°	13549.0	100.0
0°-180°	13549.0	100.0

Coefficient of Utilization



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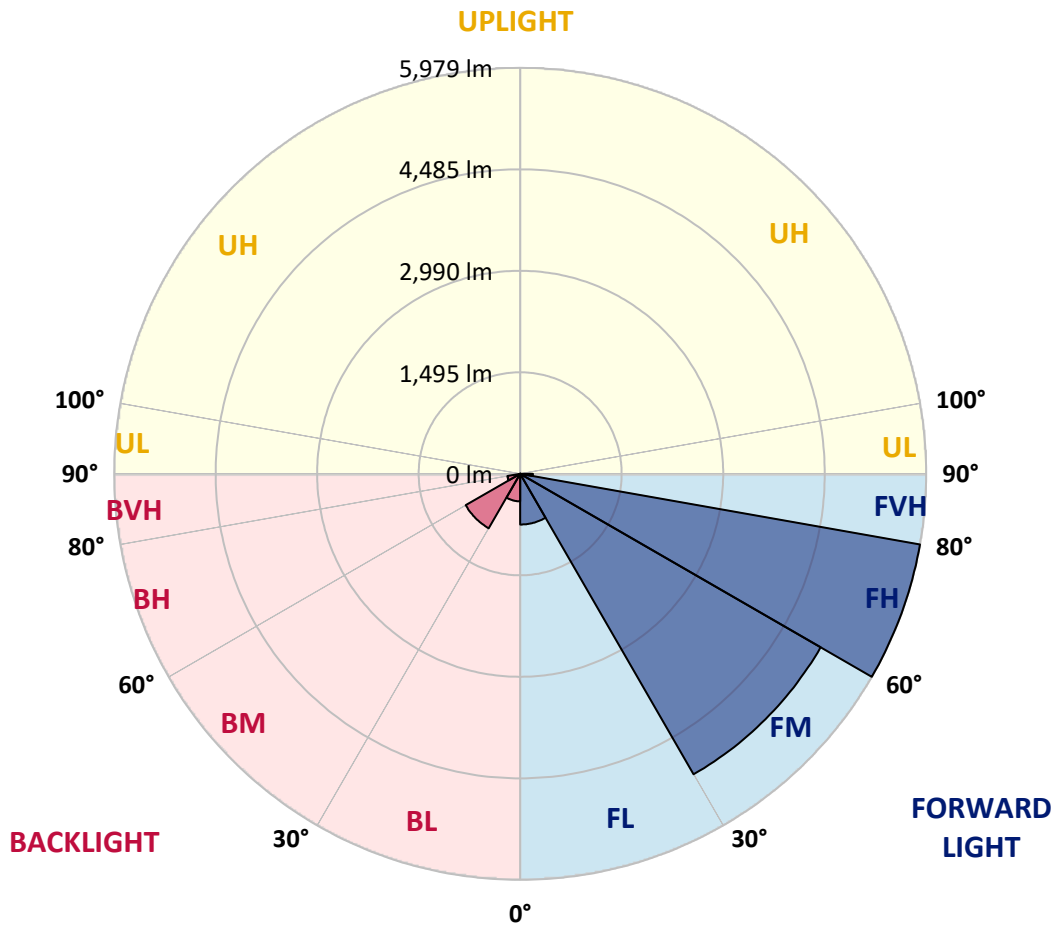
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	746.9	5.5			
FM (30°-60°)	5109.3	37.7			
FH (60°-80°)	5979.3	44.1			G3/7500
FVH (80°-90°)	188.6	1.4			G2/225
BL (0°-30°)	405.2	3.0	B1/500		
BM (30°-60°)	925.7	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7
2.5°	1876.3	1892.2	1895.2	1900.2	1900.2	1906.1	1916.1	1930.0	1952.8	1964.7	1972.6
5°	1729.4	1741.3	1756.2	1768.1	1791.0	1793.9	1832.7	1870.4	1923.0	1962.7	1990.5
7.5°	1581.5	1595.4	1615.2	1644.0	1673.8	1682.7	1741.3	1804.9	1888.3	1962.7	2009.4
10°	1477.2	1478.2	1496.1	1524.9	1572.6	1583.5	1655.0	1745.3	1849.5	1950.8	2027.2
12.5°	1418.7	1425.6	1433.6	1455.4	1501.1	1508.0	1584.5	1690.7	1810.8	1943.8	2048.1
15°	1418.7	1423.6	1428.6	1439.5	1476.3	1482.2	1549.7	1655.9	1791.0	1946.8	2081.8
17.5°	1433.6	1441.5	1437.5	1450.4	1489.2	1493.1	1552.7	1646.0	1790.0	1965.7	2133.5
20°	1469.3	1475.3	1467.3	1475.3	1514.0	1521.9	1583.5	1664.9	1806.8	1998.5	2198.0
22.5°	1525.9	1528.9	1510.0	1516.0	1555.7	1565.6	1637.1	1718.5	1847.5	2051.1	2284.4
25°	1597.4	1603.3	1574.5	1581.5	1619.2	1631.1	1713.5	1798.9	1912.1	2123.5	2394.6
27.5°	1679.8	1682.7	1657.9	1656.9	1705.6	1722.5	1805.9	1898.2	1998.5	2214.9	2533.6
30°	1774.1	1783.0	1759.2	1755.2	1816.8	1830.7	1913.1	2020.3	2125.5	2351.9	2731.1
32.5°	1848.5	1855.5	1841.6	1851.5	1914.1	1925.0	2043.1	2193.0	2325.1	2546.5	3000.2
35°	1955.8	1959.7	1928.0	1945.8	2017.3	2045.1	2220.8	2435.3	2576.2	2790.7	3351.6
37.5°	2343.9	2343.9	2208.9	2120.6	2189.1	2213.9	2464.1	2740.1	2886.0	3118.3	3794.4
40°	2881.0	2872.1	2674.5	2493.8	2484.9	2533.6	2810.5	3124.3	3286.1	3511.4	4292.7
42.5°	3453.9	3440.0	3170.9	2992.2	2962.4	2979.3	3210.6	3597.8	3762.6	3990.9	4828.8
45°	3962.2	3958.2	3712.0	3471.7	3418.1	3471.7	3710.0	4151.8	4269.9	4510.2	5364.0
47.5°	4388.1	4388.1	4208.4	4051.5	4023.7	4055.5	4386.1	4766.3	4755.4	5063.1	5885.2
50°	4878.5	4874.5	4703.8	4636.2	4665.0	4709.7	5164.4	5413.6	5257.7	5606.2	6350.8
52.5°	5222.0	5245.8	5187.2	5176.3	5323.2	5400.7	5954.7	6047.0	5707.5	6121.4	6699.2
55°	5494.0	5521.8	5589.3	5665.8	5948.7	6050.0	6720.1	6647.6	6083.7	6568.2	6899.8
57.5°	5879.2	5839.5	5943.7	6094.6	6552.3	6674.4	7461.7	7214.5	6386.5	6930.5	6921.6
60°	6346.8	6352.8	6370.6	6561.2	7154.9	7311.8	8192.4	7750.6	6581.1	7152.9	6679.4
62.5°	6908.7	6917.6	6954.4	7247.2	7964.0	8111.9	8970.7	8189.4	6670.4	7090.4	6053.9
65°	6870.0	6907.7	7317.7	8319.4	9194.1	9340.0	9879.1	8497.1	6535.4	6518.5	4929.1
67.5°	6258.4	6320.0	7006.0	9600.1	11048.6	11211.4	10977.1	8557.7	5952.7	5069.1	3215.6
70°	5456.3	5478.1	6303.1	10751.7	13195.9	13360.7	11959.9	7891.6	4517.1	2827.4	1440.5
72.5°	4261.0	4265.9	5233.9	11018.8	14361.4	14370.4	11188.5	5858.4	2429.3	1086.1	500.4
75°	3043.8	3014.1	3505.5	8935.9	12635.0	12736.3	8387.9	2748.0	928.2	513.3	249.2
77.5°	1632.1	1664.9	1983.6	5299.4	8728.5	8901.2	4576.7	792.2	472.6	349.5	164.8
80°	504.3	532.1	813.1	2426.3	4944.0	5048.2	1696.6	352.4	329.6	249.2	108.2
82.5°	158.8	164.8	379.2	1019.6	2052.1	2099.7	491.4	199.5	225.4	164.8	63.5
85°	45.7	46.7	168.8	380.2	507.3	517.2	138.0	77.4	129.1	102.3	32.8
87.5°	5.0	15.9	63.5	63.5	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7
2.5°	1967.7	1968.7	1955.8	1933.9	1910.1	1890.2	1865.4	1845.6	1831.7	1827.7	1834.6
5°	1981.6	1974.6	1937.9	1871.4	1792.0	1723.5	1647.0	1586.5	1546.7	1529.9	1535.8
7.5°	2002.4	1982.6	1902.2	1771.1	1619.2	1484.2	1347.2	1241.0	1173.5	1139.7	1144.7
10°	2020.3	1980.6	1842.6	1626.2	1393.9	1189.3	1004.7	876.6	805.1	771.4	772.4
12.5°	2037.2	1979.6	1765.1	1454.4	1139.7	889.5	717.8	654.2	634.4	627.4	625.4
15°	2068.9	1982.6	1667.9	1257.8	886.5	672.1	609.6	608.6	612.5	610.6	609.6
17.5°	2112.6	1985.5	1557.7	1049.4	684.0	592.7	589.7	598.6	604.6	601.6	600.6
20°	2169.2	1997.5	1440.5	842.9	587.7	572.8	579.8	587.7	592.7	587.7	586.7
22.5°	2248.6	2018.3	1312.4	677.1	556.9	560.9	566.9	575.8	580.8	573.8	572.8
25°	2345.9	2051.1	1186.4	588.7	542.1	547.0	556.0	565.9	571.8	564.9	563.9
27.5°	2472.0	2103.7	1070.2	568.9	527.2	530.1	543.0	557.9	565.9	556.9	556.9
30°	2654.7	2190.1	969.9	577.8	518.2	511.3	529.1	550.0	558.9	551.0	550.0
32.5°	2896.9	2312.2	908.4	591.7	514.3	489.4	506.3	533.1	548.0	543.0	543.0
35°	3214.6	2497.8	884.6	607.6	511.3	466.6	478.5	507.3	533.1	538.1	538.1
37.5°	3599.8	2755.9	891.5	614.5	502.3	447.7	453.7	478.5	512.3	528.2	532.1
40°	4037.6	3056.7	931.2	607.6	492.4	431.9	432.8	451.7	481.5	505.3	513.3
42.5°	4489.3	3408.2	1004.7	581.8	483.5	418.0	415.0	427.9	447.7	464.6	471.6
45°	4919.2	3769.6	1077.2	546.0	472.6	404.1	397.1	402.1	406.0	413.0	417.0
47.5°	5294.5	4023.7	1056.3	513.3	457.7	388.2	376.3	374.3	362.4	361.4	360.4
50°	5553.6	4079.3	938.2	480.5	435.8	370.3	351.4	339.5	318.7	308.8	309.7
52.5°	5636.0	3859.9	766.4	447.7	400.1	346.5	319.7	300.8	275.0	266.1	265.1
55°	5526.8	3430.0	612.5	408.0	350.4	314.7	284.9	260.1	239.3	228.3	228.3
57.5°	5259.7	2883.0	484.5	361.4	297.8	279.0	249.2	224.4	206.5	195.6	193.6
60°	4816.9	2289.3	383.2	305.8	254.1	240.3	209.5	193.6	177.7	164.8	161.8
62.5°	4144.8	1634.1	300.8	242.2	212.5	196.6	178.7	166.8	147.9	130.1	127.1
65°	3234.5	999.7	232.3	177.7	170.8	162.8	151.9	141.0	118.1	100.3	97.3
67.5°	2040.1	473.6	165.8	134.0	135.0	131.0	126.1	117.1	100.3	84.4	82.4
70°	898.5	229.3	109.2	102.3	100.3	100.3	104.2	101.3	85.4	70.5	67.5
72.5°	305.8	123.1	81.4	77.4	72.5	71.5	87.4	84.4	68.5	54.6	51.6
75°	159.8	82.4	59.6	55.6	43.7	52.6	69.5	65.5	48.6	35.7	32.8
77.5°	104.2	58.6	40.7	35.7	24.8	34.7	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°	34.7	19.9	8.9	6.0	5.0	6.0	6.9	5.0	2.0	0.0	0.0
85°	13.9	6.9	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)