

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: P270951

Luminaire Tested: **NVN-AF-03-LED-U-T3R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24250)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-AF-03-LED-U-T3R-7027-800
Description: NAVION ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12933 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

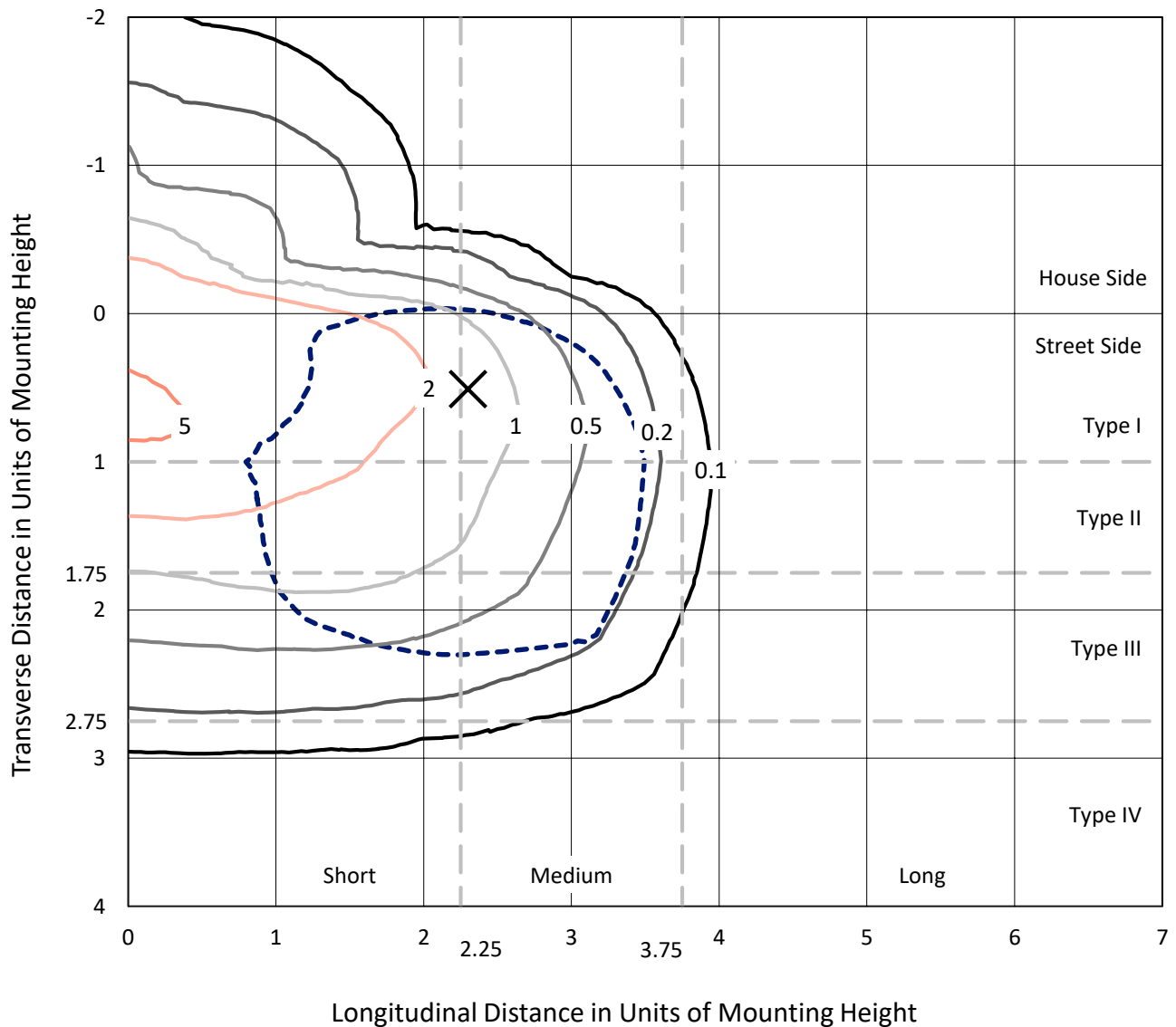
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P270951
 CATALOG NUMBER: NVN-AF-03-LED-U-T3R-7027-800

Iso-Footcandle Lines of Horizontal Illumination

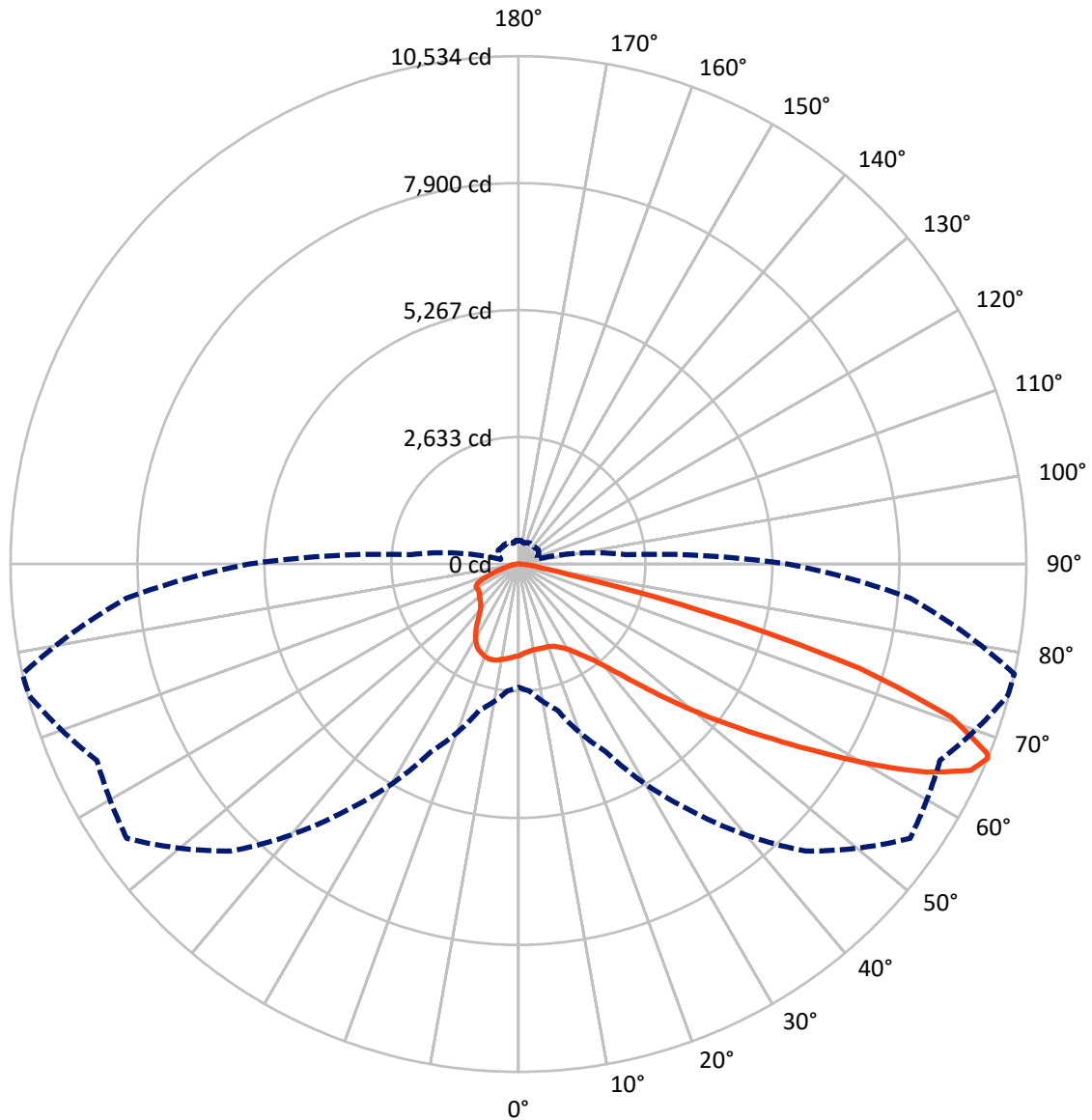
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - Full Cutoff

REPORT NUMBER: P270951
CATALOG NUMBER: NVN-AF-03-LED-U-T3R-7027-800

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



REPORT NUMBER: P270951

CATALOG NUMBER: NVN-AF-03-LED-U-T3R-7027-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2222.5	0.0	2222.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	10710.5	0.0	10710.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	12933.0	0.0	12933.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	1.3
10°-20°	469.5	3.6
20°-30°	797.7	6.2
30°-40°	1276.1	9.9
40°-50°	1964.6	15.2
50°-60°	2725.7	21.1
60°-70°	3635.8	28.1
70°-80°	1730.3	13.4
80°-90°	163.8	1.3
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°	12933.0	100.0
0°-180°	12933.0	100.0

Coefficient of Utilization



REPORT NUMBER: P270951

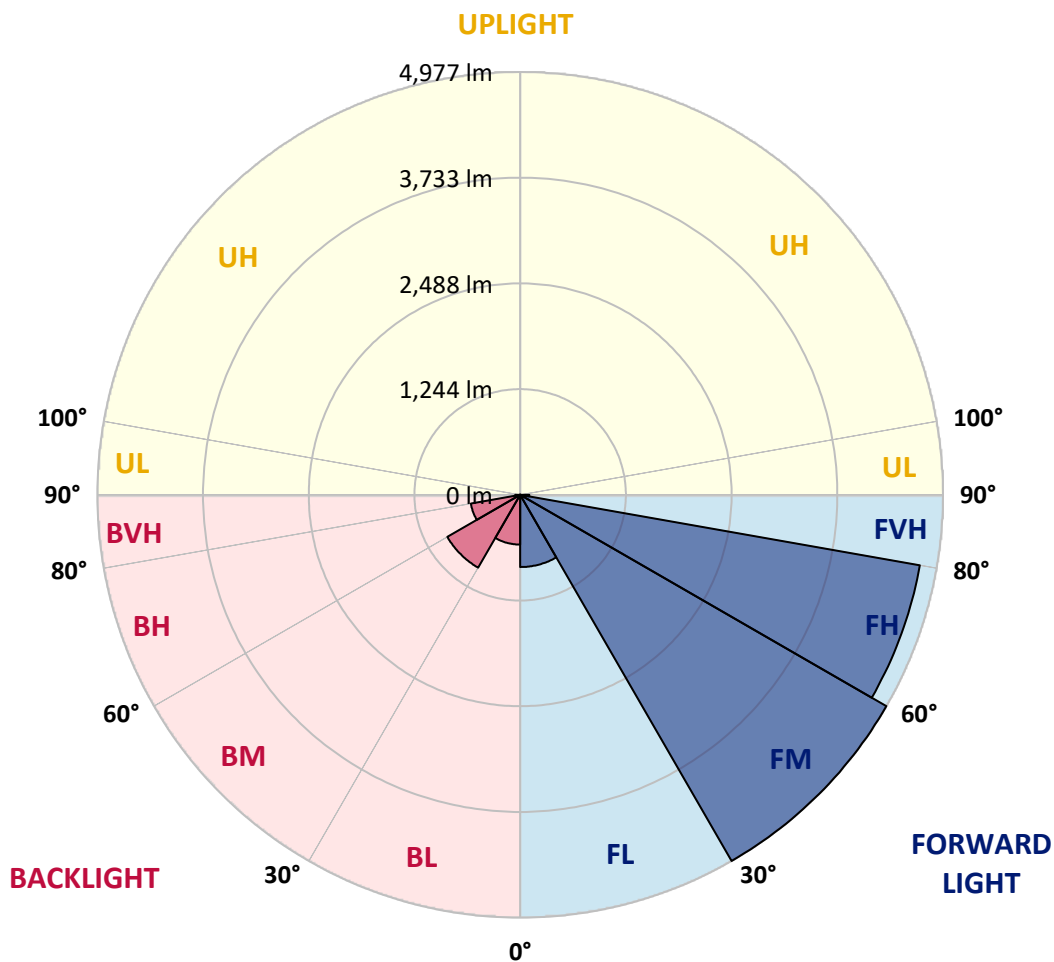
CATALOG NUMBER: NVN-AF-03-LED-U-T3R-7027-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	850.5	6.6			
FM	(30°-60°)	4976.7	38.5			
FH	(60°-80°)	4776.8	36.9			G2/5000
FVH	(80°-90°)	106.4	0.8			G2/225
BL	(0°-30°)	586.2	4.5	B2/1000		
BM	(30°-60°)	989.6	7.7	B1/1000		
BH	(60°-80°)	589.3	4.6	B2/1000		G2/1000
BVH	(80°-90°)	57.4	0.4			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 III Medium





REPORT NUMBER: P270951

CATALOG NUMBER: NVN-AF-03-LED-U-T3R-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4
2.5°	1706.7	1714.8	1715.6	1738.7	1749.1	1775.5	1804.2	1829.8	1852.2	1860.2	1874.7
5°	1535.7	1535.7	1538.1	1553.3	1582.9	1625.3	1685.2	1750.6	1819.4	1836.2	1878.6
7.5°	1446.1	1447.7	1449.3	1464.5	1487.8	1525.3	1585.1	1674.8	1789.1	1817.0	1891.4
10°	1454.1	1451.8	1443.8	1440.5	1450.1	1474.1	1526.1	1617.9	1763.6	1806.8	1914.6
12.5°	1579.6	1574.9	1548.5	1510.1	1474.8	1466.2	1502.1	1589.2	1751.5	1806.8	1953.8
15°	1794.6	1797.9	1745.9	1665.9	1574.0	1511.7	1506.8	1578.9	1747.6	1811.4	1999.3
17.5°	2074.5	2076.1	2004.1	1888.1	1735.5	1606.8	1539.7	1578.9	1747.6	1816.3	2043.3
20°	2371.9	2360.7	2279.1	2133.7	1935.4	1738.7	1599.6	1588.5	1752.4	1823.5	2084.8
22.5°	2626.9	2616.5	2531.0	2378.3	2151.3	1894.5	1680.4	1620.5	1778.6	1853.1	2143.3
25°	2850.0	2856.3	2773.2	2601.3	2366.2	2070.5	1801.1	1693.9	1833.8	1906.7	2215.2
27.5°	3120.9	3108.9	3012.9	2849.2	2587.7	2252.7	1952.1	1786.6	1899.3	1971.3	2303.2
30°	3434.3	3428.7	3299.1	3130.6	2831.5	2456.5	2101.7	1886.6	1985.0	2060.1	2413.4
32.5°	3814.8	3813.9	3674.8	3467.8	3105.7	2686.8	2278.3	2023.3	2109.6	2185.5	2559.7
35°	4245.7	4244.9	4100.9	3827.6	3421.5	2941.8	2486.1	2189.6	2263.9	2343.9	2734.0
37.5°	4544.6	4539.9	4464.7	4199.2	3770.8	3238.4	2745.9	2413.4	2439.0	2528.5	2944.3
40°	4602.1	4631.0	4695.7	4539.0	4152.1	3567.8	3006.5	2654.0	2678.0	2793.1	3208.8
42.5°	4539.9	4577.5	4792.5	4836.5	4533.4	3966.6	3332.7	2987.5	3017.8	3160.9	3519.7
45°	4485.4	4518.3	4787.6	5001.1	4910.0	4401.5	3739.6	3394.2	3451.8	3629.3	3874.7
47.5°	4392.7	4423.2	4693.4	5030.7	5125.0	4820.5	4229.7	3883.6	3982.6	4197.7	4279.3
50°	4388.0	4401.5	4564.6	4931.5	5199.4	5138.7	4772.4	4456.0	4607.8	4855.6	4726.9
52.5°	4266.4	4361.6	4509.5	4773.2	5200.9	5324.1	5307.2	5083.5	5317.6	5591.9	5217.7
55°	3523.1	3632.6	4325.6	4695.7	5191.3	5483.2	5795.8	5750.9	6117.1	6405.6	5767.7
57.5°	3289.6	3335.9	3794.8	4718.9	5271.3	5746.2	6284.2	6468.1	7031.7	7346.6	6427.3
60°	3225.6	3274.4	3688.5	4730.1	5487.9	6225.1	6946.9	7277.8	8106.8	8441.0	7176.3
62.5°	3154.5	3217.5	3696.4	4740.4	5868.4	6933.3	7826.3	8156.4	9210.9	9509.0	7878.1
65°	2946.6	3030.5	3548.6	4675.0	6284.9	7822.3	8988.6	9072.5	10122.9	10312.5	8301.9
67°	2552.5	2644.4	3142.5	4296.1	6246.5	8421.0	9918.2	9645.7	10510.7	10533.9	8164.3
67.5°	2427.8	2522.9	3005.0	4138.5	6137.1	8499.4	10082.9	9724.8	10507.5	10481.9	8036.4
70°	1634.7	1742.0	2128.1	3038.5	4922.7	7910.1	10043.1	9481.0	9818.4	9525.0	6904.6
72.5°	811.3	814.7	1061.5	1664.4	2982.6	5673.4	8377.9	8110.7	7959.0	7405.0	5066.7
75°	390.9	398.0	501.3	735.4	1257.4	2929.1	5713.4	5472.7	4659.8	4034.6	2535.7
77.5°	298.1	305.3	389.3	478.8	524.4	955.3	2829.9	2287.2	1350.2	1078.4	714.7
80°	230.2	243.8	328.6	367.8	346.9	382.9	889.7	700.3	525.1	482.0	354.1
82.5°	179.9	187.8	279.1	279.1	239.8	256.6	414.1	404.4	326.2	294.1	190.3
85°	127.1	143.1	224.7	207.9	157.6	159.1	247.8	237.4	167.9	135.0	74.3
87.5°	56.8	72.8	159.9	136.0	83.9	64.8	101.5	87.1	66.4	51.2	34.3
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: P270951
 CATALOG NUMBER: NVN-AF-03-LED-U-T3R-7027-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4
2.5°	1890.7	1903.4	1923.5	1935.4	1951.4	1957.8	1964.1	1975.4	1984.1	1981.8	1977.8
5°	1908.2	1929.7	1954.5	1962.5	1962.5	1954.5	1949.7	1950.6	1948.2	1946.5	1941.7
7.5°	1933.8	1963.3	1980.9	1972.9	1948.2	1917.1	1887.3	1869.8	1853.1	1842.7	1845.8
10°	1969.8	2002.5	2003.3	1968.1	1909.0	1841.0	1782.6	1745.0	1709.1	1693.1	1697.9
12.5°	2021.7	2054.5	2026.4	1950.6	1846.6	1740.3	1633.2	1555.7	1486.1	1469.3	1464.5
15°	2077.7	2103.2	2040.9	1913.0	1757.2	1582.1	1402.2	1286.3	1208.7	1195.1	1190.3
17.5°	2126.5	2140.8	2033.8	1845.8	1615.6	1339.8	1130.3	1052.0	1036.0	1044.0	1044.0
20°	2169.5	2164.7	2002.5	1742.0	1392.6	1071.1	949.7	948.9	970.4	990.6	992.1
22.5°	2223.9	2186.4	1952.9	1587.7	1126.4	893.8	873.0	893.8	917.7	940.0	942.5
25°	2288.7	2210.4	1886.6	1367.8	905.8	811.3	820.2	837.8	853.0	870.5	871.4
27.5°	2353.5	2228.8	1793.0	1109.5	785.7	758.7	768.2	775.4	779.4	790.6	790.6
30°	2428.6	2243.2	1658.0	889.0	730.6	712.3	706.6	703.6	706.6	721.9	722.6
32.5°	2522.9	2268.7	1473.3	762.7	705.1	679.5	650.7	634.7	645.9	673.1	678.0
35°	2630.1	2299.1	1251.9	712.3	696.2	663.5	610.8	586.0	589.9	614.7	618.8
37.5°	2764.4	2338.3	1033.6	700.3	705.1	662.0	592.3	557.2	539.6	540.4	539.6
40°	2936.2	2377.5	860.9	703.6	724.3	666.0	583.5	528.5	491.6	493.2	496.5
42.5°	3116.1	2403.1	751.4	713.1	747.5	671.6	580.3	500.4	468.5	495.7	520.4
45°	3326.3	2395.8	694.7	721.9	765.0	673.9	568.4	497.2	470.8	552.4	598.8
47.5°	3567.8	2364.7	662.7	725.9	769.8	673.1	559.6	507.6	490.8	632.3	685.0
50°	3830.0	2315.9	637.2	719.5	767.4	669.9	569.2	520.4	498.7	650.0	690.6
52.5°	4116.9	2271.2	610.8	705.1	755.5	660.3	581.2	514.8	476.5	598.8	629.9
55°	4456.8	2260.8	581.2	680.2	735.4	650.0	574.7	497.2	451.7	530.8	550.0
57.5°	4845.2	2325.5	542.8	650.0	708.3	629.2	559.6	487.6	442.9	482.8	493.2
60°	5338.4	2468.6	502.1	617.9	674.6	597.9	546.0	490.0	445.3	475.7	478.1
62.5°	5723.8	2597.3	465.2	578.8	629.9	560.5	531.5	492.5	452.4	485.3	481.2
65°	5863.6	2534.1	419.7	520.4	566.8	518.9	511.7	494.1	452.4	490.8	482.0
67°	5576.7	2232.7	376.5	462.1	506.9	482.0	492.5	487.6	444.5	490.0	474.8
67.5°	5440.0	2126.5	365.3	452.4	490.8	470.8	487.6	484.5	442.1	488.5	470.8
70°	4486.2	1525.3	308.6	379.8	410.9	414.8	458.0	463.6	422.9	458.9	426.9
72.5°	3192.0	954.4	266.2	294.1	331.7	354.9	418.2	435.7	397.3	398.8	372.5
75°	1579.6	512.5	237.4	227.0	258.3	295.8	364.5	397.3	359.7	332.6	323.7
77.5°	533.2	290.2	200.6	183.1	200.6	237.4	302.2	346.9	317.5	281.3	275.8
80°	275.8	211.0	156.7	147.1	158.3	183.9	236.7	288.5	271.0	272.5	224.7
82.5°	171.8	128.6	112.6	111.8	120.0	140.8	174.4	234.2	232.7	199.1	144.6
85°	79.9	74.3	72.0	74.3	76.7	79.9	113.5	167.1	176.6	107.1	95.1
87.5°	33.5	32.8	28.7	31.3	34.3	33.5	45.5	71.1	99.2	67.2	61.5
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)