

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: P197277

Luminaire Tested: **NVN-AF-03-LED-U-T3-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (p24135)
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-T3-8030-1200
Description: NAVION ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16220 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

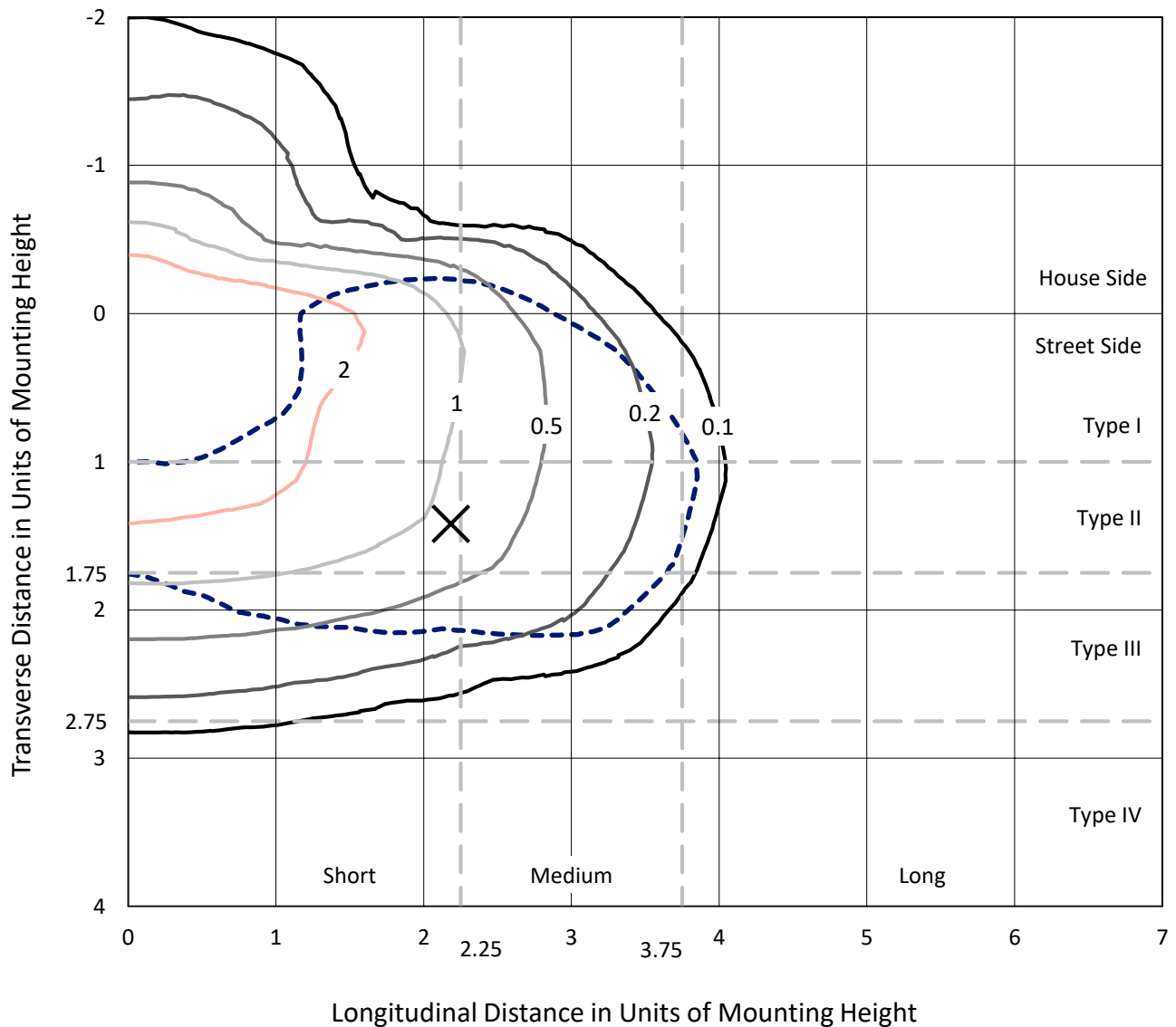
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

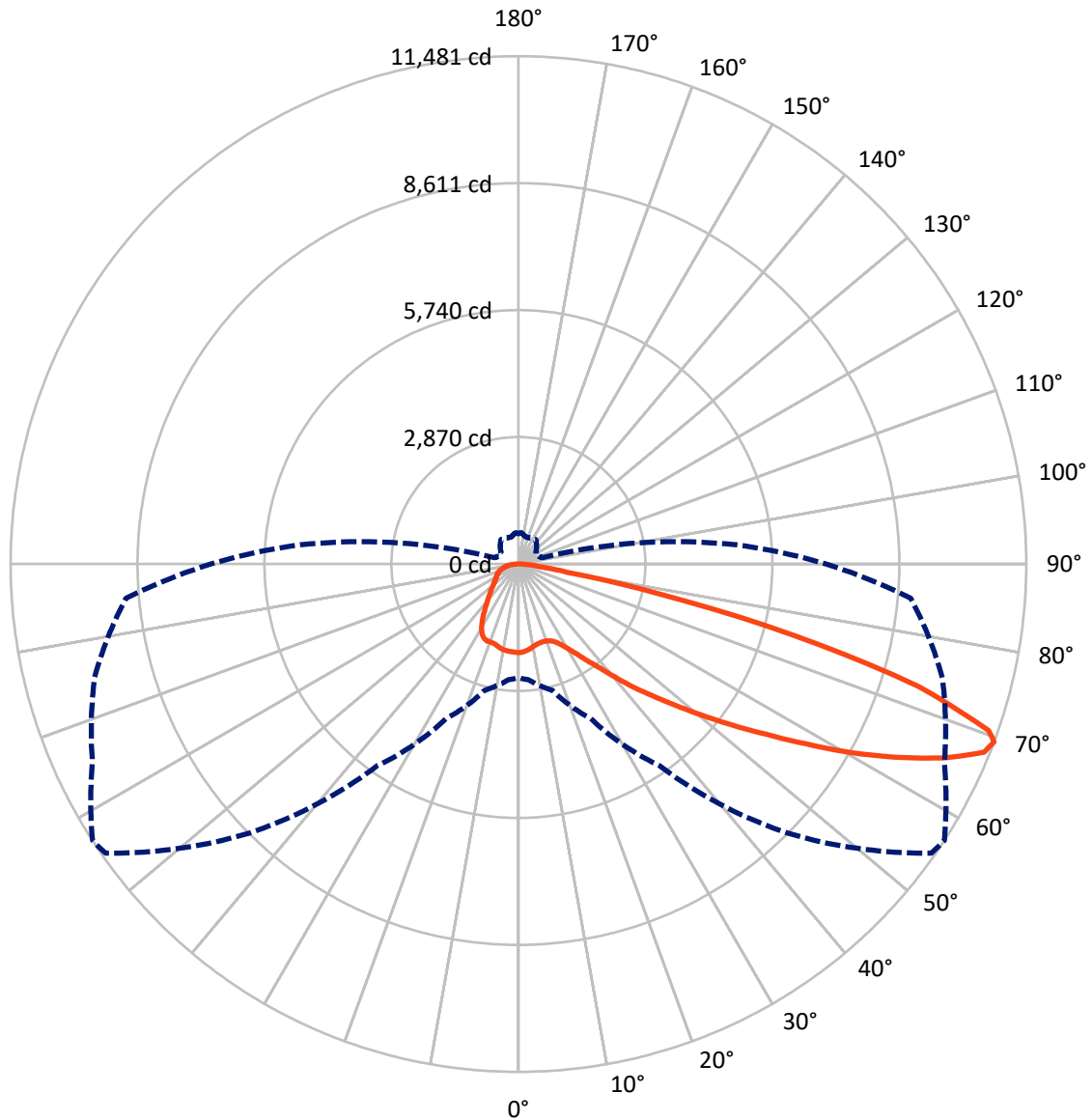
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3579.2	0.0	3579.2
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	12640.8	0.0	12640.8
	% Fixture	77.9	0.0	77.9
Total	Lumens	16220.0	0.0	16220.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.6	1.2
10°-20°	533.5	3.3
20°-30°	887.4	5.5
30°-40°	1449.1	8.9
40°-50°	2445.8	15.1
50°-60°	3804.6	23.5
60°-70°	4532.1	27.9
70°-80°	2111.3	13.0
80°-90°	268.5	1.7
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°	16220.0	100.0
0°-180°	16220.0	100.0

Coefficient of Utilization



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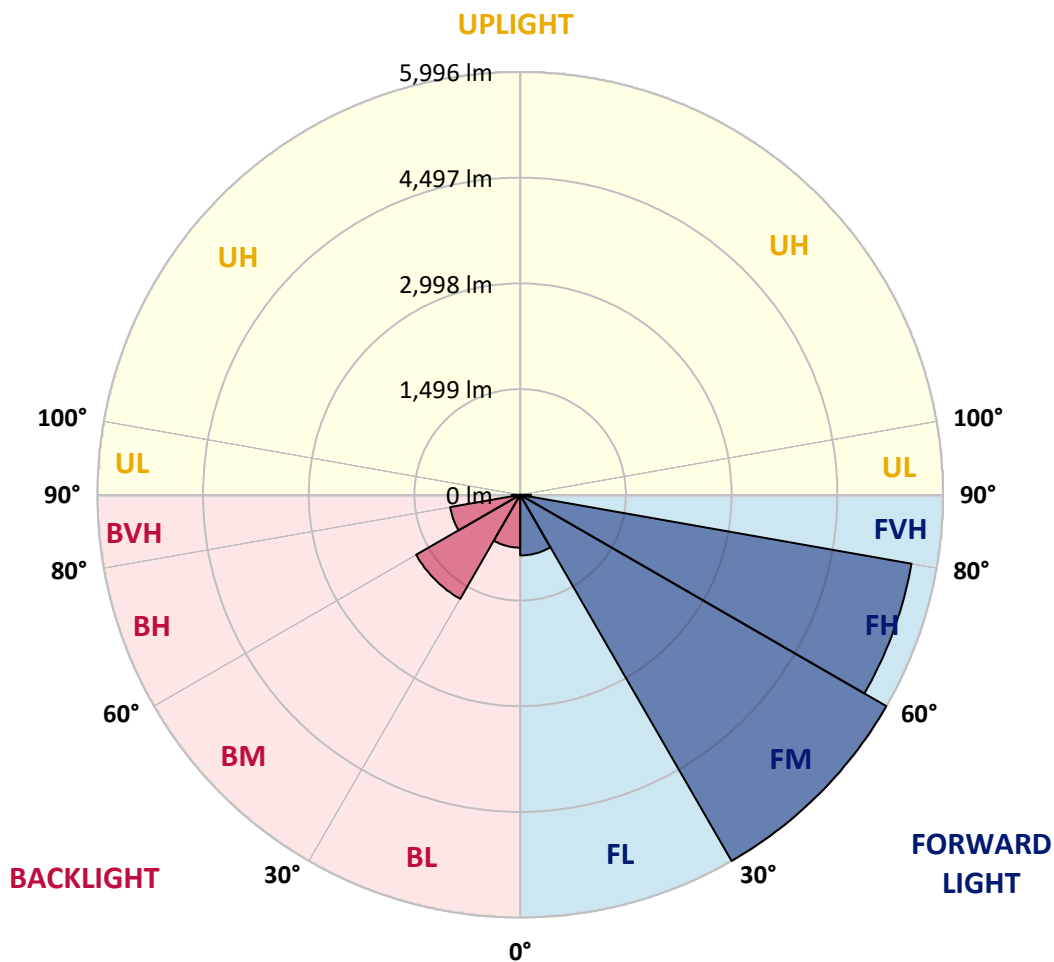
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	859.0	5.3			
FM	(30°-60°)	5996.0	37.0			
FH	(60°-80°)	5634.8	34.7			G3/7500
FVH	(80°-90°)	151.0	0.9			G2/225
BL	(0°-30°)	749.6	4.6	B2/1000		
BM	(30°-60°)	1703.5	10.5	B2/2500		
BH	(60°-80°)	1008.6	6.2	B3/2500		G3/2500
BVH	(80°-90°)	117.6	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1
2.5°	1992.7	1992.7	1997.9	1997.9	1997.9	1995.8	1989.6	1991.7	1987.5	1984.4	1979.2
5°	1952.2	1954.3	1960.5	1962.6	1965.7	1966.8	1966.8	1965.7	1966.8	1966.8	1963.6
7.5°	1896.1	1898.2	1905.5	1909.6	1919.0	1927.3	1931.5	1931.5	1936.6	1940.8	1941.8
10°	1861.9	1861.9	1866.0	1866.0	1873.3	1877.5	1891.0	1889.9	1904.5	1918.0	1924.2
12.5°	1857.7	1857.7	1855.6	1848.4	1844.2	1843.2	1856.7	1858.8	1880.6	1904.5	1915.9
15°	1871.2	1871.2	1865.0	1850.5	1834.9	1827.6	1841.1	1845.3	1869.1	1897.2	1914.8
17.5°	1914.8	1913.8	1900.3	1871.2	1844.2	1832.8	1837.0	1841.1	1862.9	1895.1	1916.9
20°	2011.4	2011.4	1982.3	1929.4	1882.6	1855.6	1849.4	1852.5	1868.1	1898.2	1926.3
22.5°	2180.7	2183.8	2131.9	2044.6	1964.7	1907.6	1882.6	1885.8	1893.0	1922.1	1953.3
25°	2429.9	2421.6	2347.9	2224.3	2099.7	2002.1	1951.2	1954.3	1954.3	1981.3	2013.5
27.5°	2693.6	2695.7	2589.8	2456.9	2292.8	2147.4	2066.4	2065.4	2064.4	2090.3	2124.6
30°	2991.7	2992.7	2870.2	2716.5	2528.5	2342.7	2221.2	2220.1	2210.8	2243.0	2287.6
32.5°	3317.7	3316.7	3174.4	3001.0	2792.3	2581.5	2423.7	2422.6	2415.4	2459.0	2513.0
35°	3679.1	3679.1	3537.9	3324.0	3098.6	2863.9	2681.2	2680.1	2684.3	2743.5	2794.4
37.5°	4114.2	4123.5	3953.2	3693.6	3447.5	3197.3	2984.4	2978.2	2947.0	3046.7	3130.8
40°	4568.0	4593.9	4417.4	4114.2	3848.4	3589.8	3355.1	3351.0	3324.0	3429.9	3565.9
42.5°	5059.2	5118.3	4922.1	4612.6	4322.9	4043.6	3807.9	3796.4	3692.6	3857.7	4070.6
45°	5703.0	5741.4	5456.9	5176.5	4903.4	4584.6	4304.2	4243.0	4139.1	4351.0	4627.2
47.5°	6141.2	6122.5	5944.9	5757.0	5581.5	5276.2	4845.2	4767.4	4640.7	4921.0	5225.3
50°	6413.2	6426.7	6327.1	6317.7	6308.4	6095.5	5455.8	5362.4	5216.0	5548.2	5903.4
52.5°	6592.9	6531.6	6549.3	6761.1	7017.6	6915.8	6146.4	6042.5	5892.0	6224.3	6625.1
55°	6518.1	6437.1	6600.2	7017.6	7620.9	7643.8	6904.4	6797.5	6668.7	6942.8	7493.2
57.5°	6208.7	6249.2	6506.7	7087.2	8033.2	8295.9	7775.6	7666.6	7413.2	7691.5	8317.7
60°	5773.6	5855.6	6249.2	6977.1	8321.9	8803.7	8732.0	8659.3	8223.2	8420.5	9183.7
62.5°	5306.3	5387.3	5871.2	6789.2	8192.0	9253.3	9670.8	9626.1	9117.3	9122.5	9733.1
65°	4615.8	4649.0	5143.3	6276.2	7831.7	9659.3	10610.5	10571.1	9971.9	9721.6	9886.7
67.5°	3486.0	3527.5	3933.5	4954.3	6735.2	9439.2	11361.3	11355.1	10485.9	9943.9	9521.2
69°	2574.2	2625.1	2956.4	3846.3	5569.0	8600.1	11396.6	11480.7	10625.1	9921.0	8903.4
70°	1883.7	1941.8	2248.2	3052.9	4638.6	7673.9	11094.4	11275.1	10572.1	9776.7	8421.5
72.5°	800.6	820.3	970.9	1378.0	2353.0	4627.2	9087.2	9467.2	9548.2	8760.1	6579.4
75°	501.6	507.8	567.0	707.2	1046.7	1913.8	5884.7	6402.9	7128.7	6796.4	4405.0
77.5°	378.0	383.2	417.4	487.0	650.0	714.4	2730.0	3255.4	4083.0	3997.9	2192.1
80°	289.7	292.8	315.7	354.1	457.9	447.6	885.8	1113.2	1704.0	1503.6	775.7
82.5°	227.4	228.5	248.2	255.4	319.8	301.1	444.4	495.3	688.5	572.2	379.0
85°	201.5	204.6	224.3	186.9	204.6	181.7	244.0	264.8	365.5	344.8	143.3
87.5°	102.8	108.0	188.0	159.9	102.8	86.2	107.0	115.3	148.5	161.0	69.6
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°	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1	2004.1
2.5°	1980.3	1981.3	1984.4	1989.6	1997.9	2008.3	2020.8	2033.2	2040.5	2045.7	2043.6
5°	1963.6	1964.7	1970.9	1980.3	1990.6	2006.2	2027.0	2042.6	2054.0	2061.3	2060.2
7.5°	1942.9	1946.0	1958.4	1968.8	1983.4	1995.8	2012.4	2027.0	2038.4	2045.7	2044.6
10°	1927.3	1930.4	1946.0	1959.5	1971.9	1974.0	1970.9	1966.8	1965.7	1970.9	1968.8
12.5°	1920.0	1926.3	1940.8	1950.1	1944.9	1925.2	1902.4	1893.0	1889.9	1900.3	1901.3
15°	1922.1	1927.3	1939.8	1933.5	1905.5	1872.3	1859.8	1867.1	1873.3	1879.5	1880.6
17.5°	1927.3	1930.4	1933.5	1910.7	1871.2	1849.4	1845.3	1838.0	1819.3	1808.9	1807.9
20°	1936.6	1940.8	1935.6	1899.3	1864.0	1834.9	1785.0	1740.4	1697.8	1675.0	1665.6
22.5°	1968.8	1971.9	1956.4	1921.1	1867.1	1772.6	1671.8	1595.0	1529.6	1494.3	1480.8
25°	2032.2	2037.4	2015.6	1970.9	1829.7	1664.6	1522.3	1418.5	1336.4	1293.9	1282.4
27.5°	2143.3	2148.5	2124.6	2008.3	1742.5	1520.2	1347.9	1245.1	1174.4	1138.1	1132.9
30°	2309.4	2316.7	2294.9	2007.3	1609.5	1336.4	1177.6	1117.3	1076.8	1051.9	1050.9
32.5°	2540.0	2567.0	2477.7	1971.9	1445.5	1150.6	1048.8	1028.0	1008.3	991.7	991.7
35°	2832.8	2896.1	2658.3	1898.2	1264.8	1023.9	977.1	957.4	932.5	914.8	912.8
37.5°	3182.7	3281.4	2787.1	1767.4	1109.0	962.6	933.5	901.3	861.9	827.6	819.3
40°	3663.5	3686.4	2850.4	1554.5	992.7	929.4	893.0	852.5	802.7	764.3	760.1
42.5°	4146.4	4071.6	2838.0	1326.1	926.3	899.3	851.5	806.8	762.2	730.0	730.0
45°	4695.7	4408.1	2743.5	1096.6	866.0	865.0	813.1	770.5	736.2	712.4	707.2
47.5°	5221.1	4710.2	2580.5	927.3	803.7	830.7	788.2	753.9	722.7	699.9	695.7
50°	5858.7	5060.2	2407.0	808.9	743.5	800.6	777.8	760.1	730.0	690.5	686.4
52.5°	6492.2	5469.3	2273.1	719.6	690.5	776.7	784.0	786.1	758.0	681.2	676.0
55°	7172.3	5906.5	2131.9	650.0	646.9	765.3	798.5	796.5	783.0	683.3	675.0
57.5°	7819.3	6345.7	1921.1	601.2	612.7	753.9	801.7	768.4	744.5	693.7	680.2
60°	8355.1	6709.2	1611.6	567.0	583.6	731.0	780.9	731.0	690.5	691.6	679.1
62.5°	8615.7	6811.0	1232.6	527.5	559.7	693.7	750.8	703.0	665.6	695.7	688.5
65°	8417.4	6521.2	878.5	491.2	530.6	650.0	733.1	679.1	653.2	716.5	708.2
67.5°	7705.0	5732.0	637.6	459.0	502.6	605.4	699.9	657.3	640.7	732.1	713.4
69°	6948.0	4949.1	552.4	440.3	482.9	581.5	678.1	645.9	631.4	710.3	683.3
70°	6318.7	4345.8	509.9	428.9	466.2	568.0	661.5	638.6	622.0	684.3	652.1
72.5°	4530.6	2808.9	428.9	394.6	422.6	537.9	625.1	611.6	586.7	617.9	597.1
75°	2737.3	1466.2	364.5	359.3	376.9	496.4	582.6	565.9	541.0	544.1	533.7
77.5°	1257.5	677.0	305.3	317.8	329.2	444.4	530.6	511.9	489.1	480.8	481.8
80°	551.4	395.6	255.4	271.0	277.3	399.8	474.6	453.8	428.9	473.5	439.2
82.5°	298.0	229.5	199.4	209.8	227.4	347.9	412.3	385.3	361.4	420.6	339.6
85°	120.5	117.3	135.0	145.4	157.8	250.3	344.8	316.7	287.6	257.5	251.3
87.5°	51.9	56.1	66.5	70.6	84.1	155.8	231.6	202.5	203.5	174.5	171.3
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)