

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: P198557

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24262)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV2-AF-02-LED-U-SL3-7030-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8614 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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

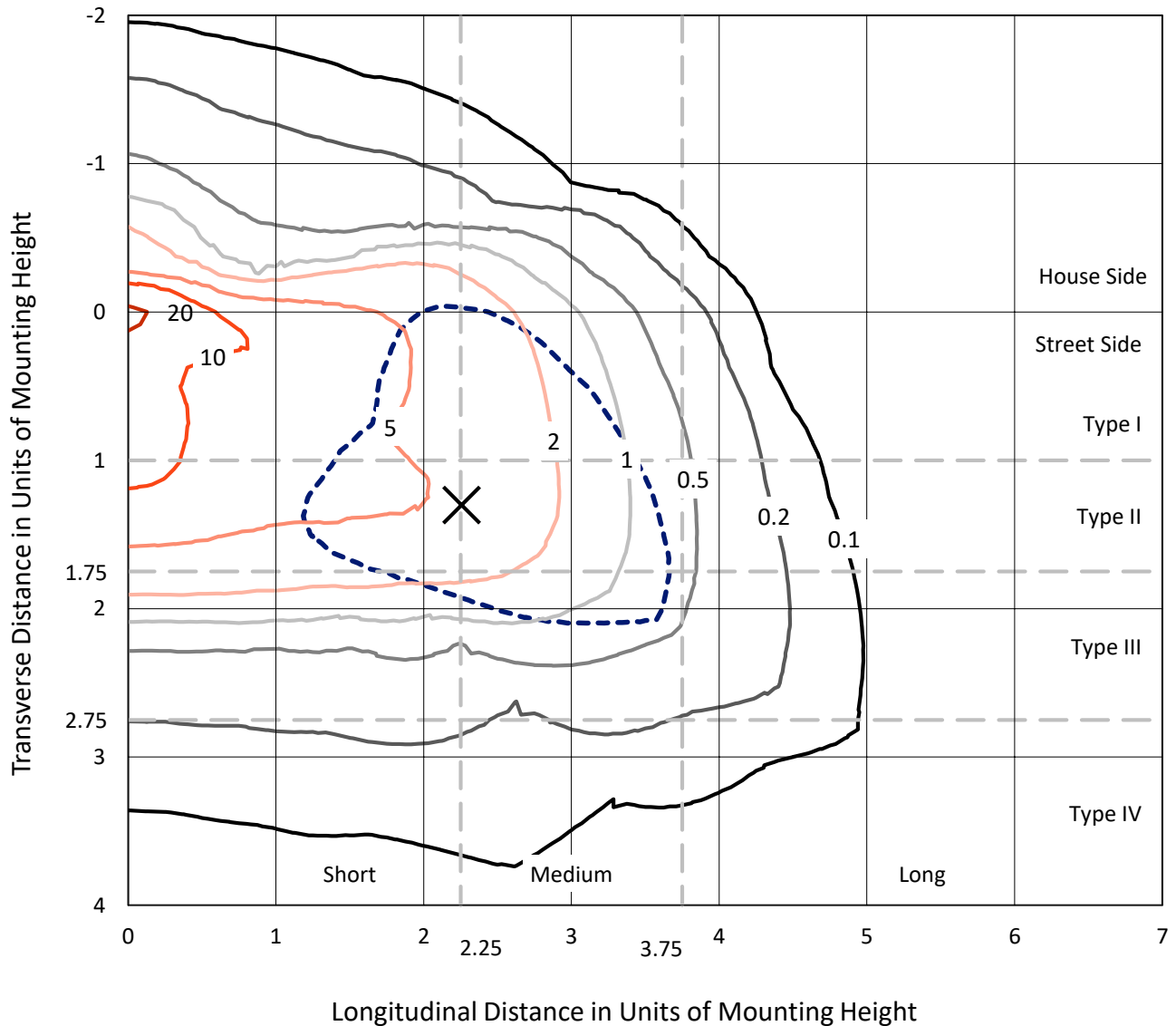


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

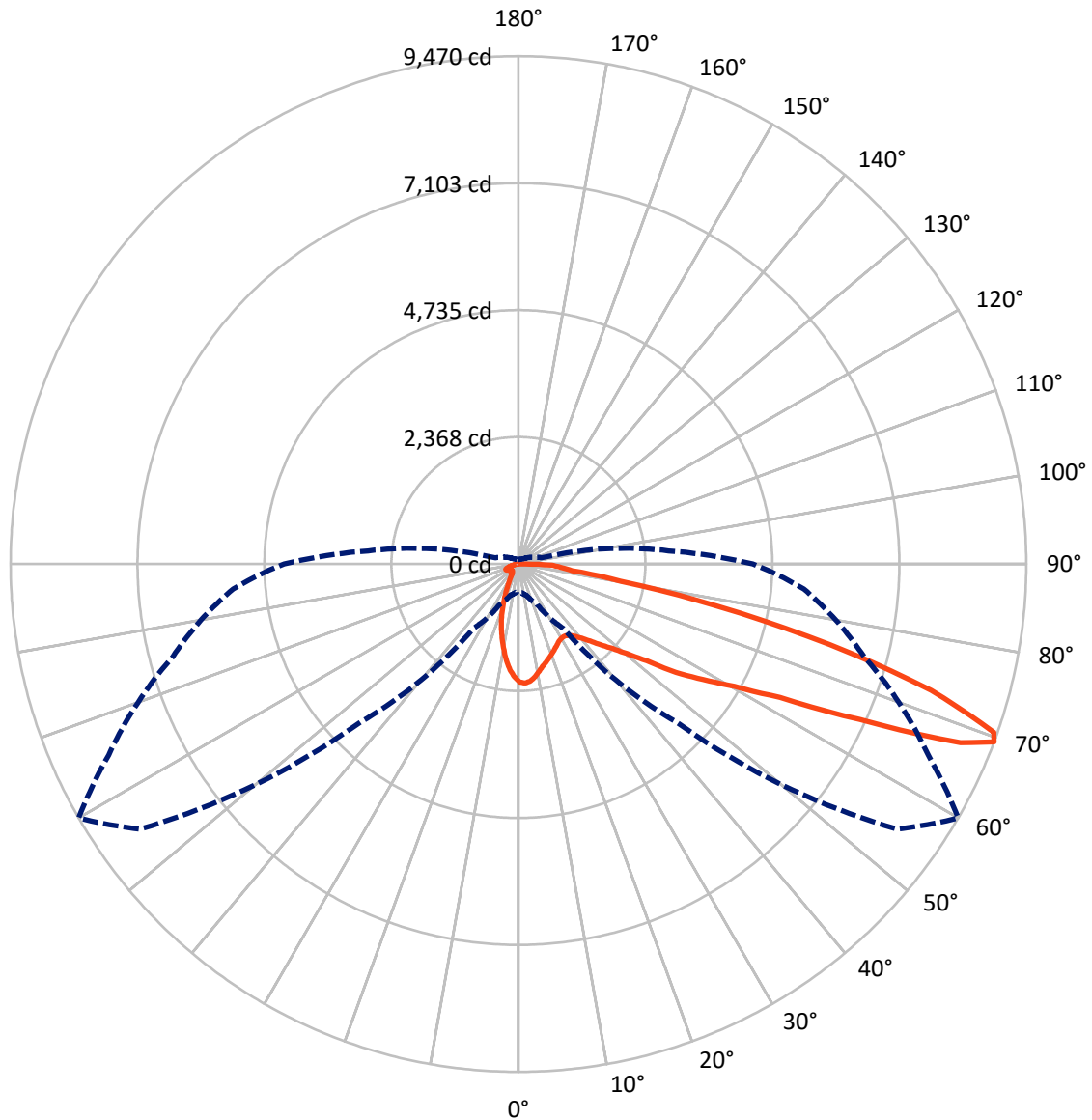


Based on 10 foot mounting height. Maximum calculated value = 22 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1228.7	0.0	1228.7
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	7385.4	0.0	7385.4
	% Fixture	85.7	0.0	85.7
Total	Lumens	8614.0	0.0	8614.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	2.2
10°-20°	399.2	4.6
20°-30°	509.3	5.9
30°-40°	700.8	8.1
40°-50°	1135.2	13.2
50°-60°	1781.7	20.7
60°-70°	2375.3	27.6
70°-80°	1321.2	15.3
80°-90°	204.9	2.4
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°	8614.0	100.0
0°-180°	8614.0	100.0

Coefficient of Utilization



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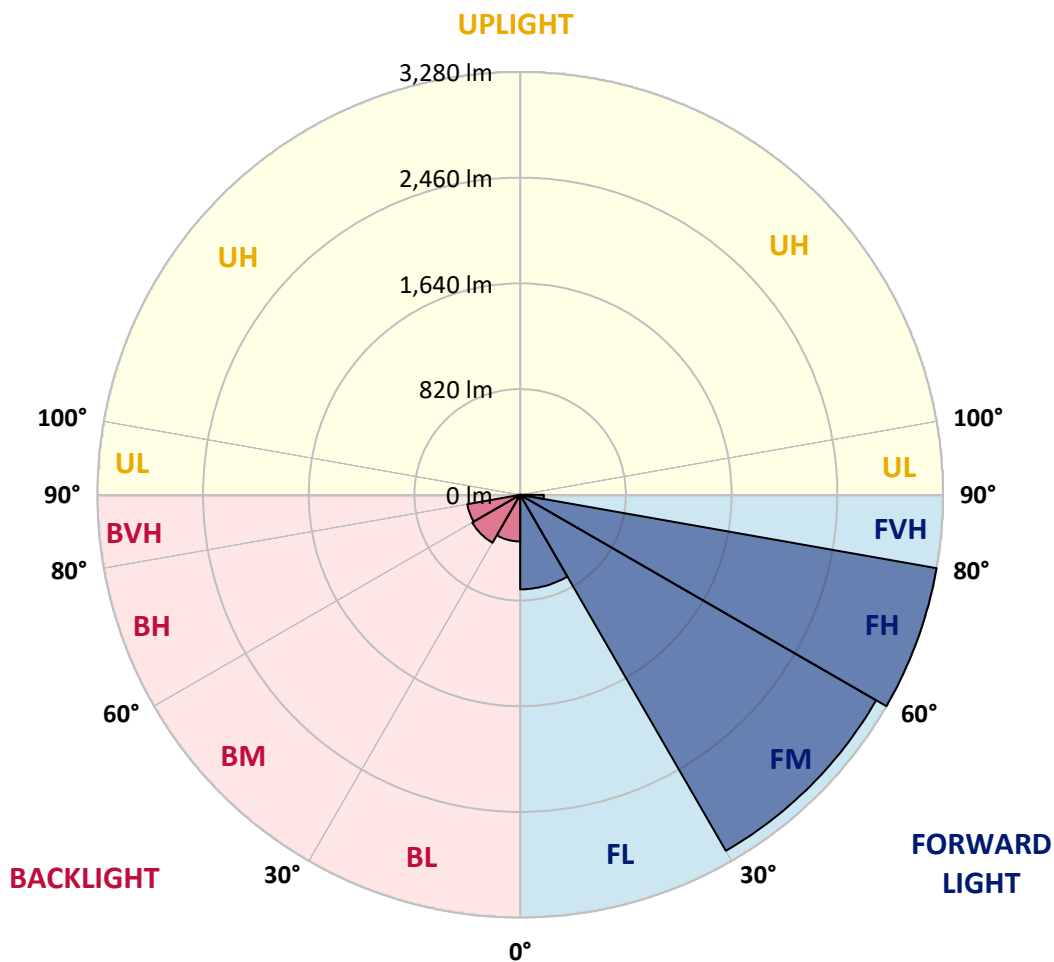
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	732.9	8.5			
FM	(30°-60°)	3188.5	37.0			
FH	(60°-80°)	3279.9	38.1			G2/5000
FVH	(80°-90°)	184.1	2.1			G2/225
BL	(0°-30°)	362.1	4.2	B1/500		
BM	(30°-60°)	429.2	5.0	B1/1000		
BH	(60°-80°)	416.6	4.8	B1/500		G1/500
BVH	(80°-90°)	20.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9
2.5°	2256.4	2262.5	2262.5	2257.5	2254.8	2238.8	2229.4	2222.7	2211.1	2189.6	2170.3
5°	2175.8	2187.4	2192.4	2194.6	2208.9	2204.0	2204.5	2200.1	2190.2	2167.0	2135.5
7.5°	2027.8	2030.0	2038.8	2053.7	2088.5	2112.8	2132.7	2136.6	2134.4	2117.2	2073.1
10°	1881.9	1885.8	1896.3	1921.7	1954.8	1989.6	2032.7	2050.4	2063.7	2058.1	2002.3
12.5°	1761.0	1761.5	1773.1	1802.4	1839.4	1883.0	1941.6	1969.2	2000.7	2013.4	1951.0
15°	1644.4	1652.1	1663.2	1698.5	1744.4	1799.6	1867.0	1905.1	1946.6	1983.0	1911.2
17.5°	1556.0	1562.1	1568.7	1598.0	1651.0	1720.1	1803.5	1844.4	1899.1	1954.8	1870.3
20°	1507.4	1509.6	1504.7	1519.0	1563.8	1638.3	1735.0	1784.2	1849.3	1927.8	1828.4
22.5°	1497.5	1497.5	1479.3	1476.5	1496.4	1559.3	1664.3	1724.5	1804.0	1909.0	1790.8
25°	1543.9	1540.6	1506.3	1474.8	1467.7	1499.7	1596.9	1670.9	1765.4	1908.4	1762.6
27.5°	1631.7	1627.3	1584.8	1531.7	1485.9	1472.1	1545.0	1620.7	1735.0	1927.2	1748.3
30°	1741.1	1739.4	1696.3	1630.1	1554.4	1483.1	1524.5	1594.7	1714.6	1962.0	1747.7
32.5°	1860.9	1853.2	1826.7	1760.4	1662.1	1544.4	1536.7	1595.8	1709.0	2012.8	1760.4
35°	1988.5	1983.0	1976.4	1909.6	1799.1	1652.7	1590.3	1633.9	1736.1	2083.5	1796.3
37.5°	2150.9	2144.9	2155.9	2083.0	1962.0	1794.7	1680.9	1710.1	1791.3	2186.3	1863.2
40°	2439.8	2422.2	2391.2	2279.1	2152.0	1968.7	1811.8	1816.2	1885.8	2323.8	1970.3
42.5°	2914.3	2857.4	2704.4	2498.4	2352.6	2170.8	1982.5	1961.5	2016.2	2505.6	2126.1
45°	3389.9	3325.8	3067.3	2737.6	2560.2	2387.9	2193.5	2143.2	2178.6	2717.1	2326.6
47.5°	3697.0	3665.5	3373.9	2976.7	2777.9	2624.3	2434.9	2352.0	2377.4	2956.8	2574.1
50°	3787.1	3760.0	3530.8	3164.0	2983.4	2909.9	2733.7	2623.8	2628.2	3236.9	2870.7
52.5°	3719.7	3708.6	3556.7	3280.0	3172.3	3210.9	3147.4	2994.4	2958.0	3544.0	3192.2
55°	3629.6	3633.5	3575.0	3396.5	3364.5	3491.5	3688.7	3565.6	3410.9	3863.8	3526.9
57.5°	3346.3	3349.0	3502.6	3618.6	3731.3	3884.8	4110.2	4058.3	3878.2	4209.1	3902.0
60°	2694.5	2716.0	3057.9	3572.7	4150.5	4659.8	4715.0	4625.6	4375.3	4606.8	4389.7
62.5°	1925.0	1944.4	2340.4	3101.6	4101.4	5537.0	5831.9	5476.2	5049.8	5201.7	5075.7
65°	1011.4	1008.1	1314.6	2143.2	3454.5	5740.3	7591.8	6986.4	6186.0	6019.8	5738.6
67.5°	565.1	583.3	702.1	1081.0	2251.5	5052.0	8715.9	8894.3	7765.8	6668.8	5709.9
69°	522.5	528.6	608.2	835.7	1467.7	4168.2	8619.2	9470.4	8432.0	6671.6	5342.0
70°	507.6	514.3	586.6	770.0	1232.9	3415.3	8267.4	9403.0	8593.8	6523.5	5007.3
72.5°	455.2	464.0	534.1	692.1	1039.0	1760.4	6659.4	8048.1	7784.6	5701.6	3882.6
75°	388.3	403.2	509.3	687.2	984.3	1119.1	4441.1	5996.0	5793.8	4077.6	2202.9
77.5°	160.7	162.4	222.6	503.2	1032.9	1071.0	2386.8	3798.1	3362.3	1788.0	663.4
80°	112.1	109.9	111.0	146.9	833.5	1078.2	1224.6	1931.6	1501.3	471.7	310.4
82.5°	94.5	93.4	97.8	92.2	282.3	1223.5	1024.1	1007.0	707.0	254.1	148.0
85°	62.4	60.8	80.1	84.0	134.2	971.6	1101.4	791.5	527.0	135.9	63.0
87.5°	30.4	30.9	45.8	56.9	71.3	307.7	1055.0	625.8	407.1	59.1	25.4
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°	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9	2197.9
2.5°	2162.5	2146.0	2131.1	2112.3	2097.9	2085.8	2069.2	2068.6	2065.9	2069.7	2070.8
5°	2114.5	2086.9	2044.9	1997.9	1964.8	1921.2	1878.6	1864.3	1848.2	1846.6	1851.6
7.5°	2042.1	1999.0	1927.2	1855.4	1783.6	1710.1	1640.5	1605.2	1570.9	1560.5	1565.4
10°	1961.5	1906.8	1796.9	1679.8	1578.7	1469.3	1363.3	1294.8	1232.3	1205.8	1212.5
12.5°	1898.5	1828.9	1674.2	1522.3	1371.0	1214.1	1074.4	939.0	836.8	791.0	793.8
15°	1844.4	1755.4	1559.3	1357.2	1167.7	952.8	759.0	602.1	512.6	479.5	478.4
17.5°	1785.8	1678.1	1439.5	1203.6	957.8	692.1	508.2	415.4	380.0	369.0	369.0
20°	1723.4	1598.6	1314.1	1036.3	736.9	483.3	382.2	346.3	333.1	329.8	329.2
22.5°	1665.4	1520.7	1188.2	857.8	533.0	366.8	325.3	311.5	309.3	312.1	312.1
25°	1619.6	1452.2	1060.6	670.0	387.8	307.1	289.4	287.8	296.1	306.0	307.7
27.5°	1585.3	1390.9	934.6	489.4	304.9	267.3	261.3	268.5	287.8	307.7	311.5
30°	1561.6	1338.4	783.8	351.9	254.1	234.2	237.0	249.7	278.9	309.3	317.6
32.5°	1551.1	1295.9	631.9	270.1	217.1	206.0	213.2	229.8	260.2	290.5	300.5
35°	1561.0	1264.9	491.6	224.3	190.0	181.7	190.0	207.1	227.0	241.9	248.0
37.5°	1596.9	1253.9	370.1	198.9	172.3	164.1	170.7	182.3	191.1	196.6	199.4
40°	1672.6	1265.5	290.0	185.6	162.4	153.0	154.7	160.2	166.3	170.7	171.2
42.5°	1793.0	1303.6	258.0	180.6	156.3	144.2	141.4	145.3	151.9	158.0	159.1
45°	1953.2	1367.1	254.6	182.3	153.6	137.0	131.5	135.3	144.2	154.1	155.8
47.5°	2160.3	1467.7	270.1	191.1	155.2	133.1	124.8	128.7	140.3	153.6	155.8
50°	2405.6	1606.9	298.8	204.4	162.9	133.1	122.1	125.4	137.5	152.5	154.7
52.5°	2694.5	1800.7	328.7	217.6	174.0	138.1	123.2	122.6	133.7	147.5	150.2
55°	3013.2	2041.6	357.4	229.2	180.1	144.7	125.9	119.3	128.2	139.2	141.4
57.5°	3388.3	2371.3	407.7	240.3	183.4	149.7	129.3	116.0	121.0	128.7	130.4
60°	3897.0	2855.8	505.4	259.1	189.5	151.9	129.8	112.7	112.1	117.7	118.2
62.5°	4560.4	3423.1	598.8	281.2	201.6	152.5	127.6	110.5	105.0	106.6	106.6
65°	5032.1	3631.8	571.7	299.9	212.7	151.9	125.4	108.8	99.4	96.7	96.7
67.5°	4763.7	3208.2	485.5	304.9	213.8	145.8	120.4	105.0	94.5	87.8	87.8
69°	4369.3	2812.1	445.8	296.1	204.9	138.6	114.9	101.1	91.1	83.4	83.4
70°	4047.8	2512.2	421.5	285.6	194.4	132.6	109.9	97.2	87.8	81.2	80.6
72.5°	3022.0	1676.4	360.1	246.4	159.6	112.1	96.1	86.7	79.0	74.6	74.6
75°	1594.7	840.2	295.0	201.1	123.2	89.5	79.0	72.9	68.5	67.9	67.4
77.5°	522.5	380.0	212.1	151.4	90.6	69.6	63.0	59.1	58.6	60.8	60.8
80°	282.3	227.0	136.4	102.2	63.0	51.9	48.6	48.1	49.7	53.0	53.0
82.5°	137.0	112.1	81.2	63.0	43.1	38.1	38.1	38.7	40.9	44.7	44.7
85°	59.1	53.0	47.0	35.4	26.5	23.8	27.1	29.8	31.5	34.2	35.4
87.5°	28.2	24.9	21.5	13.8	11.6	12.2	14.4	17.7	21.0	23.2	23.8
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)