

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: P199217

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)
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-SL4-8030-1200
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10298 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 128
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

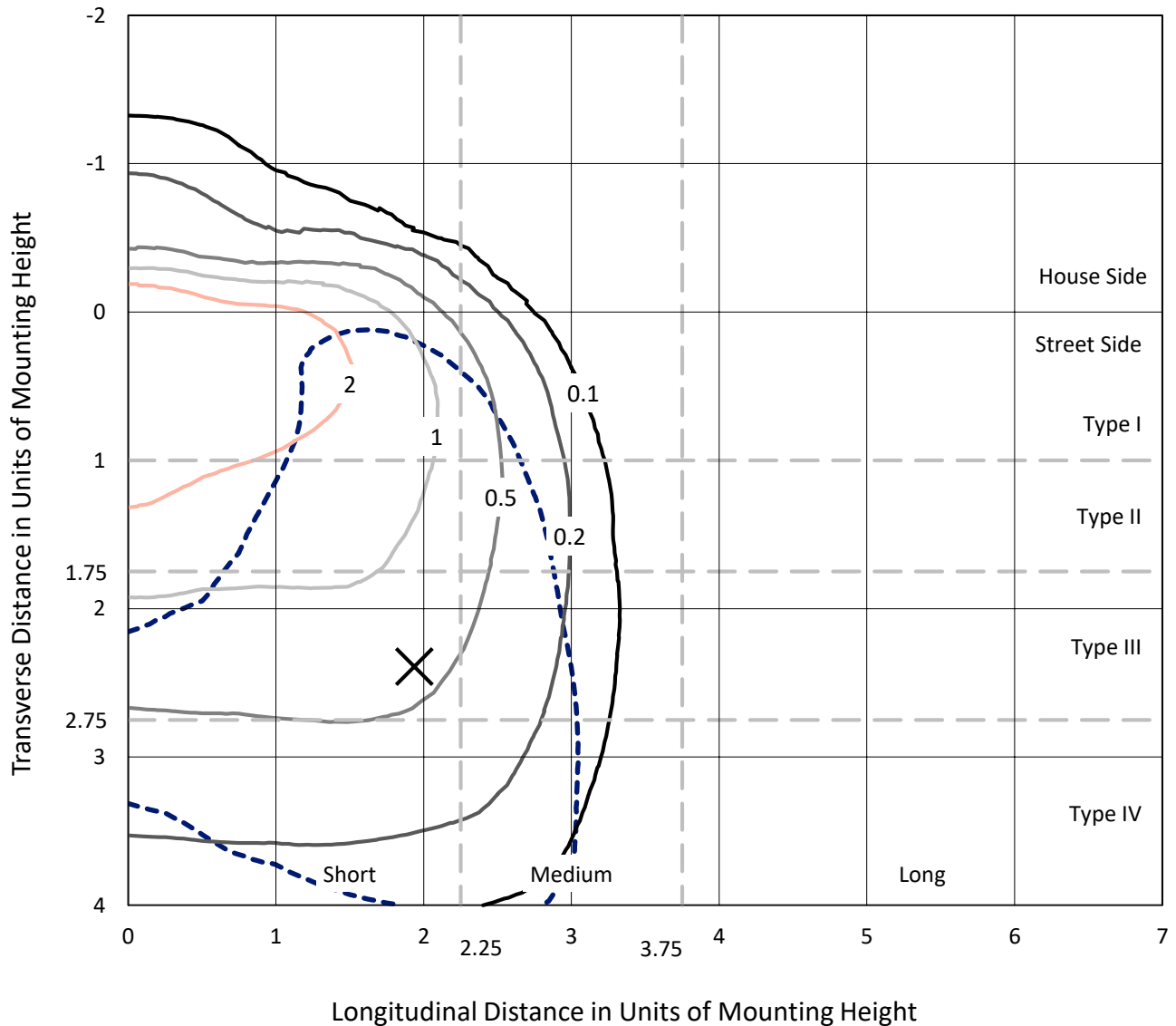


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Iso-Footcandle Lines of Horizontal Illumination

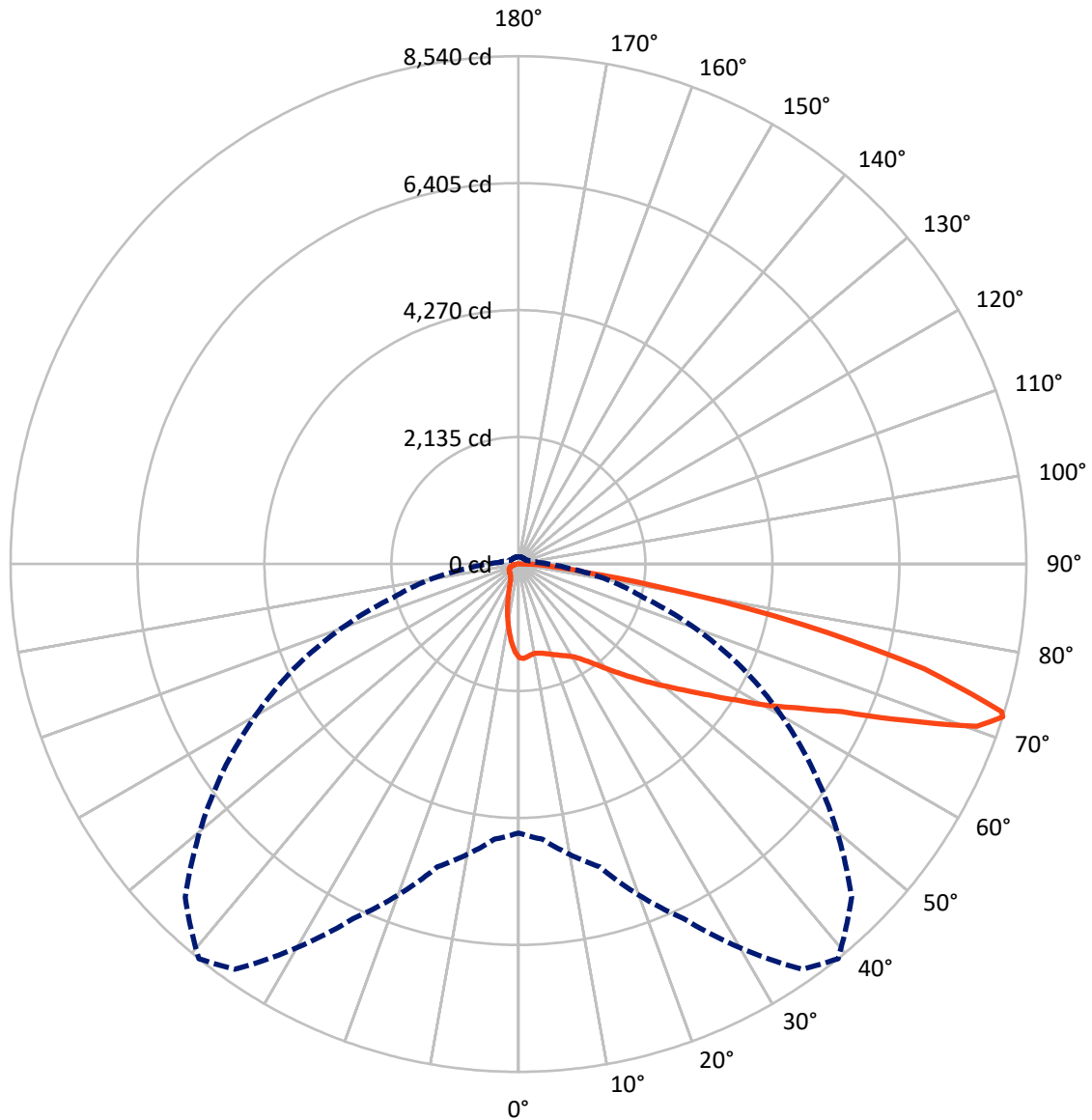
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1180.8	0.0	1180.8
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	9117.2	0.0	9117.2
	% Fixture	88.5	0.0	88.5
Total	Lumens	10298.0	0.0	10298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	1.3
10°-20°	339.6	3.3
20°-30°	529.2	5.1
30°-40°	814.9	7.9
40°-50°	1328.4	12.9
50°-60°	2064.2	20.0
60°-70°	2762.8	26.8
70°-80°	1986.9	19.3
80°-90°	336.8	3.3
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°	10298.0	100.0
0°-180°	10298.0	100.0

Coefficient of Utilization



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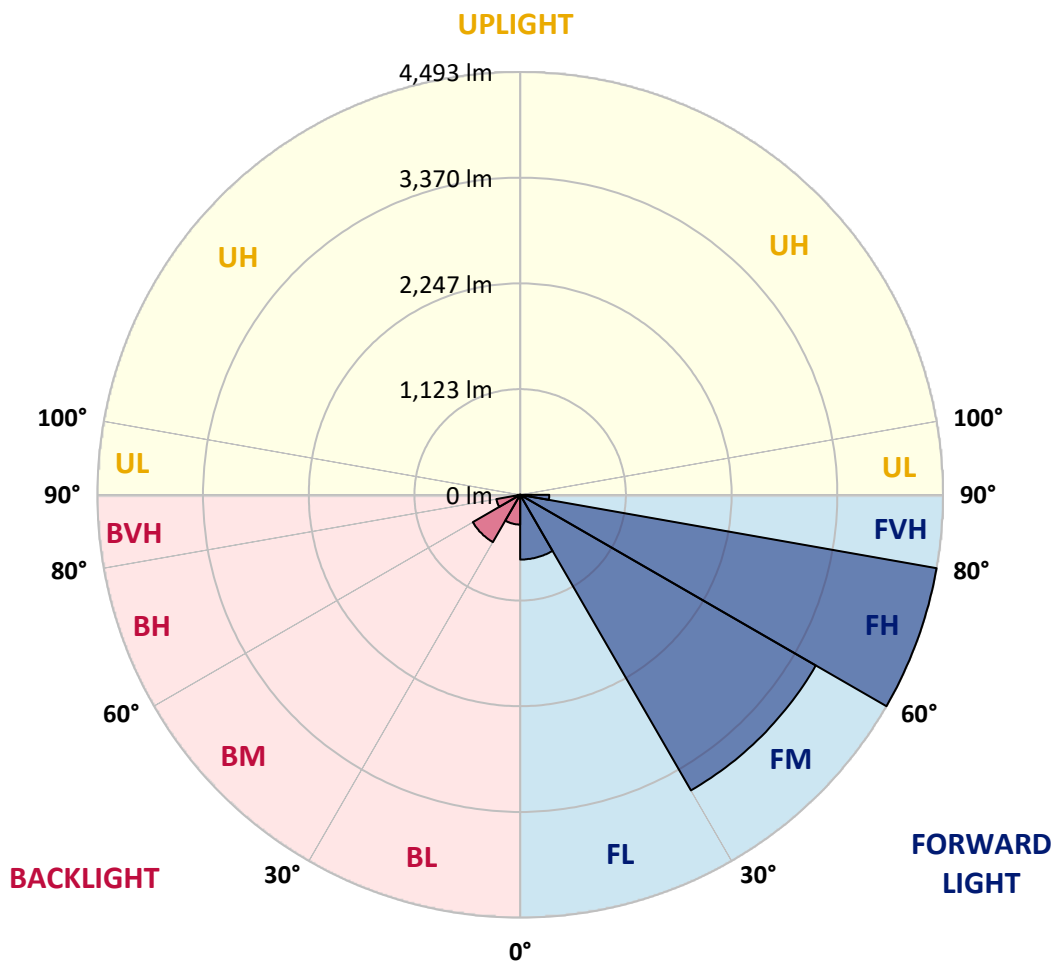
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	687.9	6.7			
FM	(30°-60°)	3627.2	35.2			
FH	(60°-80°)	4493.2	43.6			G2/5000
FVH	(80°-90°)	309.0	3.0			G3/500
BL	(0°-30°)	316.1	3.1	B1/500		
BM	(30°-60°)	580.3	5.6	B1/1000		
BH	(60°-80°)	256.6	2.5	B1/500		G1/500
BVH	(80°-90°)	27.8	0.3			G1/100
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°	35°	39°	45°	55°	65°	75°	85°
0°	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7
2.5°	1606.6	1607.3	1605.2	1599.0	1593.4	1590.7	1585.8	1577.5	1566.5	1558.9	1552.6
5°	1591.4	1593.4	1592.0	1581.7	1572.0	1566.5	1558.9	1547.1	1532.6	1526.4	1511.9
7.5°	1579.6	1581.0	1576.8	1565.1	1546.4	1539.5	1525.7	1510.5	1497.3	1488.4	1471.1
10°	1571.3	1572.7	1569.2	1557.5	1536.7	1528.4	1511.9	1495.3	1478.0	1466.9	1447.6
12.5°	1559.6	1562.3	1562.3	1556.8	1543.0	1537.4	1520.8	1502.9	1487.0	1475.2	1451.0
15°	1557.5	1560.9	1567.2	1566.5	1562.3	1558.2	1545.0	1527.1	1513.2	1499.4	1469.7
17.5°	1574.8	1582.4	1594.8	1599.0	1596.2	1587.2	1572.0	1555.4	1540.2	1527.1	1490.4
20°	1618.3	1622.5	1641.1	1649.4	1635.6	1622.5	1602.4	1581.0	1567.2	1556.8	1509.8
22.5°	1684.0	1689.5	1704.7	1705.4	1676.4	1660.5	1634.9	1608.6	1595.5	1591.4	1536.1
25°	1789.1	1787.7	1791.8	1774.5	1722.0	1703.3	1672.2	1641.8	1632.8	1641.1	1574.8
27.5°	1914.9	1911.4	1898.3	1853.4	1773.9	1749.7	1712.3	1685.4	1685.4	1704.7	1627.3
30°	2060.1	2056.6	2013.7	1938.4	1835.4	1807.7	1768.3	1740.0	1754.5	1791.8	1698.5
32.5°	2213.5	2201.1	2140.9	2040.0	1923.2	1892.8	1854.7	1825.7	1853.4	1917.0	1800.8
35°	2358.0	2351.1	2277.1	2157.5	2036.5	2011.0	1984.7	1948.8	1993.0	2091.8	1945.3
37.5°	2507.3	2501.8	2411.2	2284.0	2174.8	2157.5	2135.4	2110.5	2181.7	2311.7	2140.9
40°	2673.9	2662.9	2548.8	2421.6	2335.9	2327.6	2315.8	2308.9	2423.7	2617.2	2388.4
42.5°	2862.6	2841.2	2694.0	2573.0	2511.5	2518.4	2512.2	2539.8	2715.4	2969.8	2682.9
45°	3078.3	3035.5	2838.4	2734.1	2705.7	2733.4	2746.5	2817.0	3060.4	3377.0	3012.0
47.5°	3280.2	3224.9	2996.8	2909.0	2924.9	2972.6	3009.9	3134.3	3438.5	3779.3	3347.9
50°	3466.1	3403.9	3166.1	3090.1	3167.5	3235.2	3312.7	3488.3	3840.8	4193.4	3656.2
52.5°	3603.7	3558.8	3335.5	3287.8	3446.1	3536.0	3659.7	3881.6	4247.3	4588.1	3931.4
55°	3710.2	3686.0	3500.7	3514.5	3761.3	3889.9	4039.9	4295.0	4677.3	4942.0	4152.6
57.5°	3833.2	3815.2	3689.4	3788.3	4152.6	4314.4	4491.3	4774.8	5086.5	5253.8	4326.1
60°	3963.2	3963.2	3899.6	4118.0	4642.0	4827.3	5003.6	5224.1	5494.4	5534.5	4396.6
62.5°	4061.3	4086.9	4109.7	4469.2	5106.6	5336.8	5530.3	5741.9	5916.8	5672.7	4230.7
65°	4203.7	4258.4	4386.9	4875.0	5681.7	5983.1	6244.4	6422.1	6259.0	5562.8	3689.4
67.5°	4448.5	4529.3	4803.1	5479.2	6562.4	7013.8	7267.6	6960.6	6191.9	4870.8	2826.0
70°	4669.0	4783.0	5251.1	6245.8	7707.2	8175.9	8059.1	6835.5	5392.8	3570.5	1738.6
72°	4522.4	4646.9	5271.8	6579.7	8319.0	8540.2	7924.3	6057.8	4167.1	2179.0	857.2
72.5°	4426.3	4555.6	5204.7	6571.4	8335.6	8493.9	7736.9	5748.8	3782.8	1906.6	693.4
75°	3697.7	3808.3	4475.4	5824.1	7345.7	7055.3	6037.7	3720.5	1738.6	615.9	356.7
77.5°	2414.7	2499.0	3085.9	4035.1	5145.3	4866.0	3674.9	1742.1	651.9	374.0	268.2
80°	1213.2	1273.4	1651.5	2121.6	2776.9	2555.0	1696.4	842.7	436.2	270.3	210.8
82.5°	844.1	899.4	1137.2	1083.3	1160.7	1123.3	797.8	703.0	326.3	170.7	110.6
85°	707.9	765.3	940.8	772.2	631.8	575.8	571.7	664.3	215.7	84.3	93.3
87.5°	617.3	704.4	776.3	564.1	433.4	382.3	421.0	609.0	68.4	46.3	28.3
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°	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7	1572.7
2.5°	1542.3	1540.2	1529.8	1513.9	1502.2	1494.6	1480.1	1479.4	1480.7	1468.3	1473.1
5°	1498.7	1490.4	1463.5	1426.8	1397.1	1368.8	1337.7	1327.3	1318.3	1299.6	1301.7
7.5°	1453.1	1438.6	1391.6	1331.4	1274.1	1221.5	1169.7	1144.1	1124.7	1100.5	1100.5
10°	1426.1	1403.3	1331.4	1243.6	1152.4	1075.7	998.2	951.9	918.0	886.9	884.9
12.5°	1424.8	1390.2	1290.0	1169.0	1043.9	936.0	830.2	759.0	708.6	671.9	668.5
15°	1435.8	1387.4	1255.4	1099.2	941.5	801.2	670.6	580.0	515.7	474.9	470.8
17.5°	1445.5	1384.0	1218.1	1025.9	842.0	671.2	526.1	432.1	371.2	338.0	334.6
20°	1454.5	1376.4	1170.4	948.5	732.1	549.6	411.3	335.3	295.2	276.5	274.4
22.5°	1467.6	1369.4	1120.6	861.3	624.2	447.3	339.4	284.8	263.4	254.4	253.0
25°	1489.0	1370.1	1072.2	772.2	525.4	372.6	293.8	259.9	248.2	242.0	242.0
27.5°	1520.2	1378.4	1024.5	681.6	441.7	321.5	266.8	246.8	239.2	234.3	233.0
30°	1565.8	1393.6	974.0	595.9	375.4	286.2	250.9	238.5	232.3	228.1	227.4
32.5°	1632.1	1420.6	920.8	517.8	324.9	261.3	239.2	231.6	226.7	223.3	222.6
35°	1731.0	1468.3	869.0	451.4	289.0	243.3	229.5	223.3	220.5	219.1	218.4
37.5°	1876.2	1545.0	819.9	399.6	265.5	231.6	219.8	216.4	215.0	215.0	215.0
40°	2058.7	1646.0	775.6	362.9	252.3	222.6	212.9	210.2	210.2	210.8	210.8
42.5°	2280.6	1772.5	737.6	338.0	244.7	216.4	208.1	206.7	206.0	206.0	206.7
45°	2538.4	1921.8	714.1	318.7	239.2	212.9	204.6	203.9	201.2	199.8	199.8
47.5°	2797.7	2081.5	712.7	307.6	232.3	208.8	201.2	201.2	195.6	192.9	193.6
50°	3039.6	2224.6	727.9	304.9	228.1	202.5	197.7	198.4	190.8	187.3	186.6
52.5°	3234.6	2333.8	746.6	308.3	228.1	197.0	191.5	194.9	186.6	182.5	181.8
55°	3385.3	2409.8	753.5	315.9	230.9	192.2	186.0	191.5	185.3	179.7	179.7
57.5°	3493.1	2434.0	723.8	319.4	235.0	191.5	180.4	190.8	187.3	180.4	180.4
60°	3453.7	2293.7	613.2	306.2	234.3	190.1	176.3	192.2	194.3	186.6	186.6
62.5°	3146.1	1919.0	492.2	276.5	222.6	185.3	171.4	190.8	199.1	196.3	194.9
65°	2561.2	1407.5	381.6	241.3	202.5	174.9	161.1	178.4	188.0	190.8	191.5
67.5°	1805.0	891.1	296.6	205.3	177.7	159.7	149.3	157.6	161.1	162.5	165.2
70°	987.2	482.5	235.7	172.8	152.1	144.5	136.9	137.6	136.2	134.8	136.2
72°	495.7	315.2	199.1	150.0	134.8	130.0	126.5	124.4	124.4	122.4	123.0
72.5°	426.5	293.1	192.2	144.5	130.7	126.5	123.7	121.7	121.0	119.6	120.3
75°	284.1	232.3	160.4	121.0	111.3	108.5	109.9	107.8	108.5	107.2	107.8
77.5°	229.5	199.8	136.2	102.3	95.4	91.3	94.0	94.7	96.1	94.7	94.0
80°	192.2	170.1	114.1	84.3	79.5	76.0	77.4	82.3	83.0	78.8	78.1
82.5°	124.4	136.9	89.9	65.7	60.8	59.5	62.9	67.7	69.1	63.6	62.2
85°	104.4	109.9	65.0	44.9	40.1	38.7	45.6	50.5	53.9	48.4	47.0
87.5°	29.0	53.9	31.8	21.4	18.0	18.0	22.1	26.3	31.1	31.8	31.8
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)