

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: P198733

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198733
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-SL4-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA 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: 9507.3 lumens
Efficiency: N/A
Efficacy: 111.9 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): 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

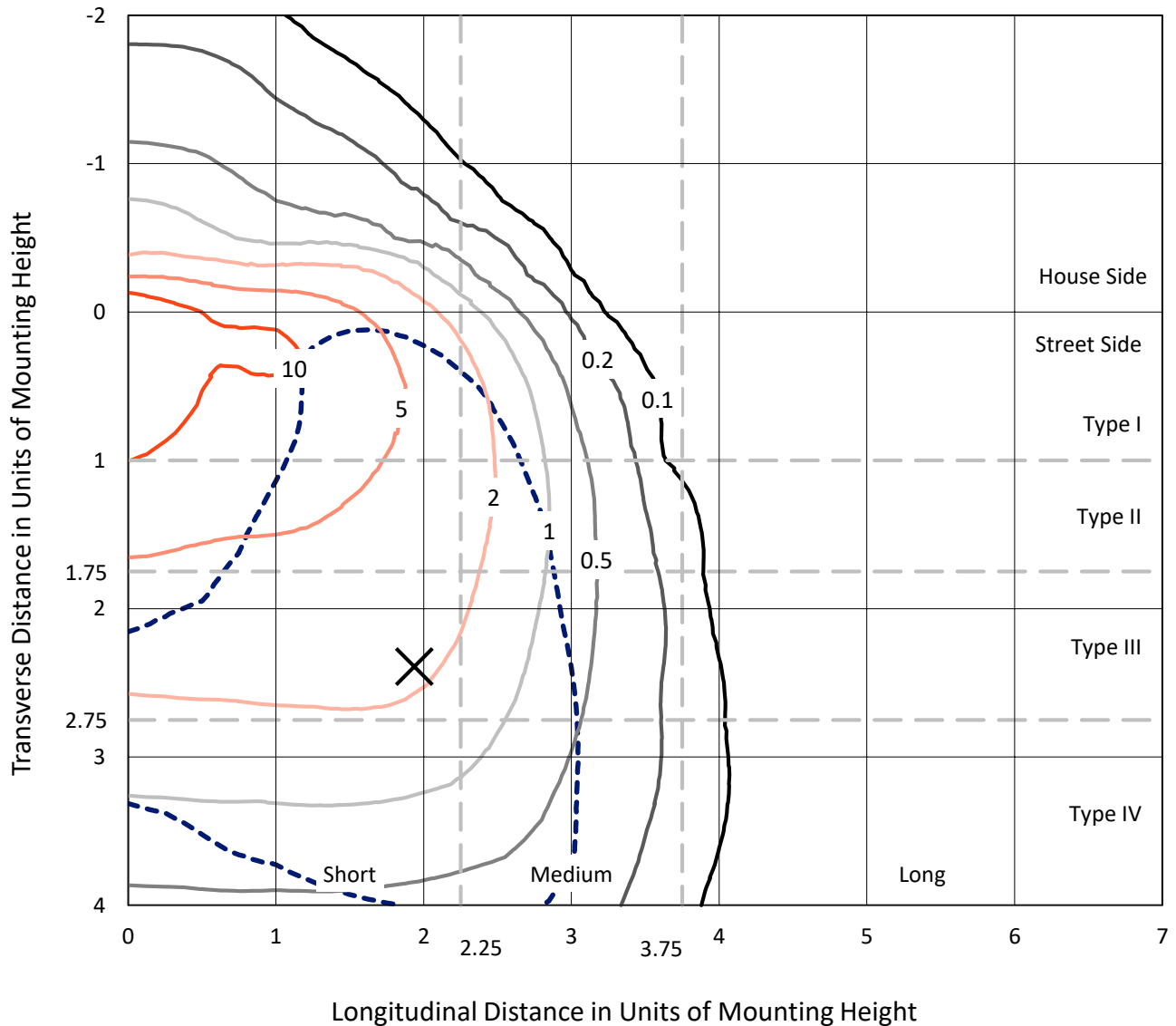


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Iso-Footcandle Lines of Horizontal Illumination

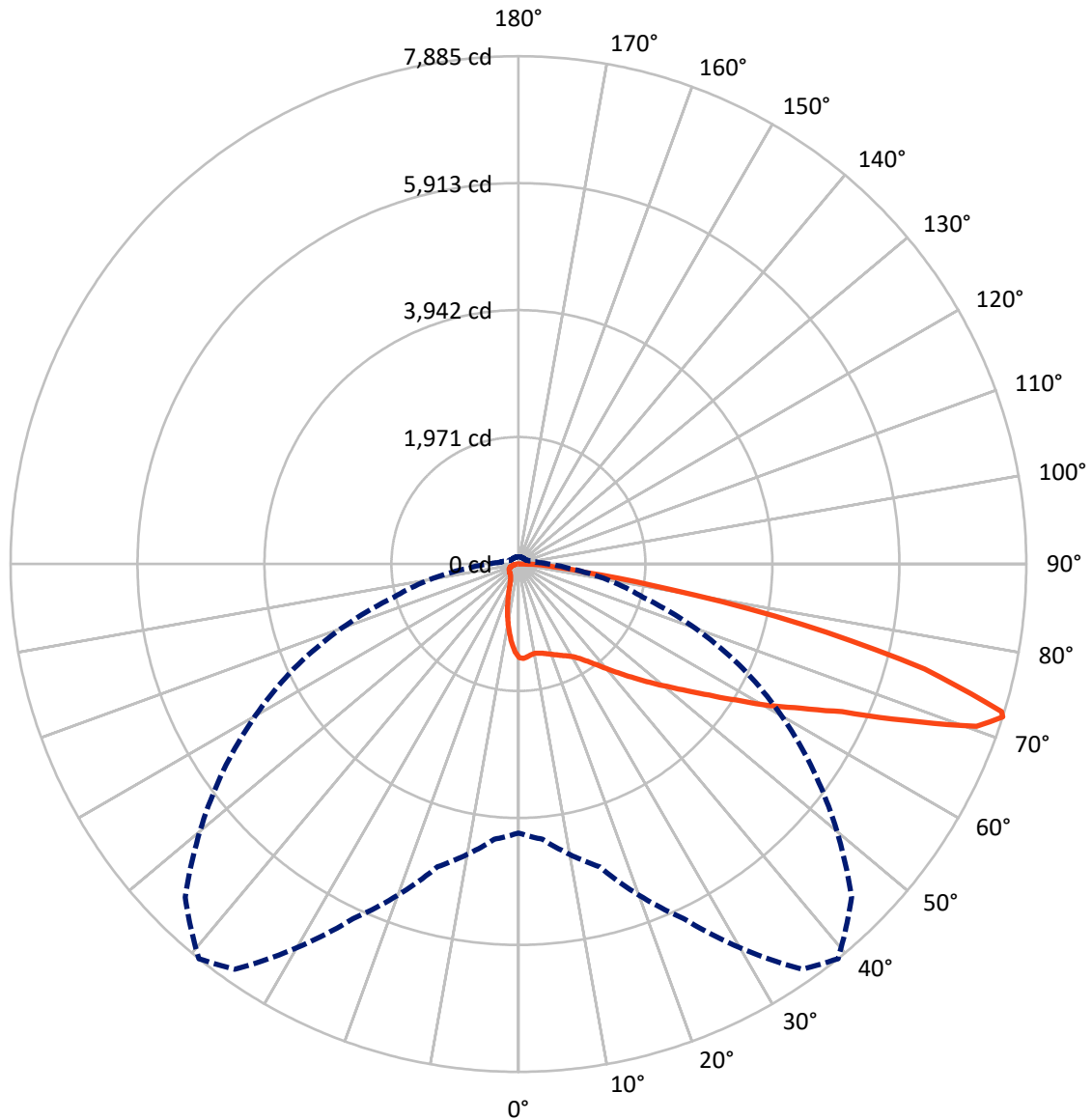
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 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	1090.1	0.0	1090.1
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	8417.2	0.0	8417.2
	% Fixture	88.5	0.0	88.5
Total	Lumens	9507.3	0.0	9507.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	1.3
10°-20°	313.5	3.3
20°-30°	488.6	5.1
30°-40°	752.3	7.9
40°-50°	1226.4	12.9
50°-60°	1905.7	20.0
60°-70°	2550.7	26.8
70°-80°	1834.3	19.3
80°-90°	311.0	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°	9507.3	100.0
0°-180°	9507.3	100.0



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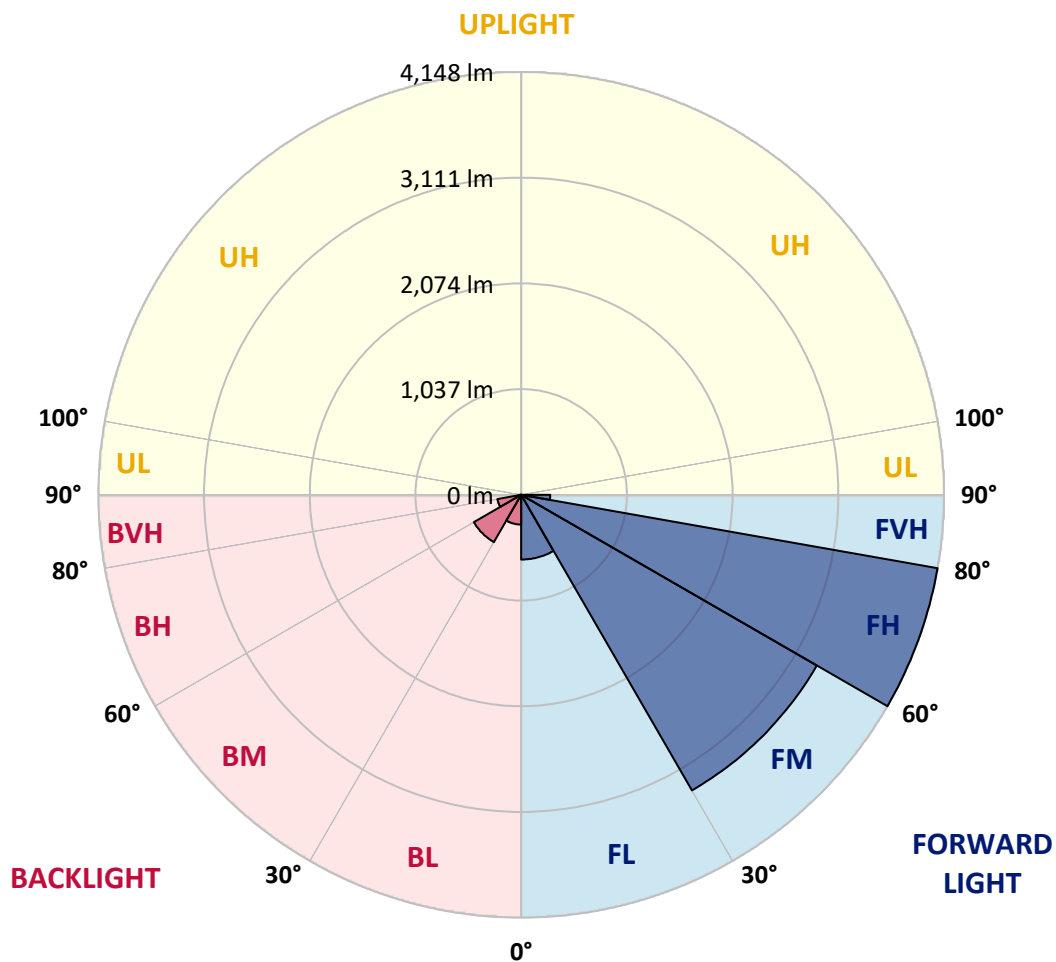
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	635.1	6.7			
FM	(30°-60°)	3348.7	35.2			
FH	(60°-80°)	4148.2	43.6			G2/5000
FVH	(80°-90°)	285.3	3.0			G3/500
BL	(0°-30°)	291.8	3.1	B1/500		
BM	(30°-60°)	535.8	5.6	B1/1000		
BH	(60°-80°)	236.9	2.5	B1/500		G1/500
BVH	(80°-90°)	25.7	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°	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0
2.5°	1483.2	1483.9	1481.9	1476.2	1471.1	1468.5	1464.0	1456.4	1446.1	1439.2	1433.5
5°	1469.2	1471.1	1469.8	1460.3	1451.3	1446.1	1439.2	1428.3	1414.9	1409.2	1395.8
7.5°	1458.3	1459.5	1455.8	1444.9	1427.7	1421.3	1408.5	1394.5	1382.4	1374.0	1358.1
10°	1450.6	1452.0	1448.7	1437.9	1418.7	1411.1	1395.8	1380.5	1364.5	1354.3	1336.4
12.5°	1439.8	1442.4	1442.4	1437.2	1424.5	1419.3	1404.1	1387.4	1372.8	1362.0	1339.7
15°	1437.9	1441.1	1446.9	1446.1	1442.4	1438.6	1426.4	1409.8	1397.0	1384.3	1356.8
17.5°	1453.8	1460.9	1472.3	1476.2	1473.7	1465.4	1451.3	1436.0	1421.9	1409.8	1376.0
20°	1494.0	1497.9	1515.1	1522.8	1510.0	1497.9	1479.4	1459.5	1446.9	1437.2	1393.9
22.5°	1554.7	1559.8	1573.8	1574.4	1547.6	1533.0	1509.4	1485.1	1472.9	1469.2	1418.1
25°	1651.7	1650.4	1654.2	1638.3	1589.8	1572.6	1543.8	1515.8	1507.4	1515.1	1453.8
27.5°	1767.9	1764.7	1752.5	1711.1	1637.6	1615.3	1580.9	1556.0	1556.0	1573.8	1502.3
30°	1901.9	1898.7	1859.1	1789.6	1694.4	1668.9	1632.5	1606.3	1619.7	1654.2	1568.1
32.5°	2043.5	2032.1	1976.5	1883.4	1775.5	1747.4	1712.3	1685.5	1711.1	1769.8	1662.5
35°	2176.9	2170.6	2102.3	1991.9	1880.2	1856.6	1832.3	1799.2	1840.0	1931.2	1795.9
37.5°	2314.8	2309.7	2226.0	2108.6	2007.8	1991.9	1971.4	1948.5	2014.2	2134.2	1976.5
40°	2468.6	2458.4	2353.1	2235.7	2156.5	2148.9	2138.0	2131.6	2237.6	2416.3	2205.1
42.5°	2642.8	2623.1	2487.1	2375.4	2318.6	2325.0	2319.2	2344.8	2506.9	2741.8	2476.9
45°	2842.0	2802.4	2620.5	2524.1	2497.9	2523.5	2535.6	2600.8	2825.4	3117.6	2780.7
47.5°	3028.3	2977.3	2766.7	2685.6	2700.3	2744.3	2778.7	2893.6	3174.5	3489.1	3090.8
50°	3200.0	3142.6	2923.0	2852.8	2924.3	2986.8	3058.3	3220.5	3546.0	3871.4	3375.5
52.5°	3327.0	3285.5	3079.4	3035.3	3181.5	3264.4	3378.7	3583.6	3921.2	4235.8	3629.5
55°	3425.2	3402.9	3231.9	3244.7	3472.5	3591.3	3729.7	3965.3	4318.2	4562.6	3833.7
57.5°	3538.9	3522.3	3406.1	3497.4	3833.7	3983.1	4146.4	4408.1	4696.0	4850.4	3993.9
60°	3658.9	3658.9	3600.2	3801.8	4285.7	4456.7	4619.4	4823.0	5072.5	5109.5	4059.1
62.5°	3749.5	3773.2	3794.2	4126.1	4714.5	4927.0	5105.8	5301.0	5462.5	5237.2	3905.8
65°	3881.0	3931.4	4050.1	4500.7	5245.5	5523.7	5764.9	5929.0	5778.3	5135.7	3406.1
67.5°	4106.9	4181.6	4434.3	5058.5	6058.5	6475.3	6709.5	6426.2	5716.5	4496.9	2609.0
70°	4310.5	4415.8	4847.9	5766.3	7115.4	7548.1	7440.3	6310.7	4978.7	3296.4	1605.1
72°	4175.2	4290.1	4867.0	6074.5	7680.3	7884.5	7315.8	5592.7	3847.1	2011.6	791.4
72.5°	4086.5	4205.9	4805.1	6066.8	7695.6	7841.7	7142.9	5307.4	3492.4	1760.2	640.2
75°	3413.8	3515.9	4131.8	5376.9	6781.7	6513.6	5574.2	3434.9	1605.1	568.7	329.3
77.5°	2229.3	2307.2	2849.0	3725.3	4750.2	4492.4	3392.7	1608.3	601.8	345.2	247.7
80°	1120.0	1175.6	1524.7	1958.6	2563.7	2358.8	1566.1	778.0	402.7	249.5	194.7
82.5°	779.3	830.3	1049.9	1000.0	1071.5	1037.1	736.5	649.1	301.3	157.6	102.1
85°	653.6	706.6	868.6	712.9	583.3	531.6	527.8	613.4	199.2	77.8	86.1
87.5°	569.9	650.3	716.7	520.8	400.2	352.9	388.7	562.3	63.2	42.8	26.2
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°	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0
2.5°	1423.8	1421.9	1412.4	1397.7	1386.8	1379.9	1366.5	1365.7	1367.1	1355.6	1360.0
5°	1383.6	1376.0	1351.1	1317.3	1289.8	1263.7	1234.9	1225.4	1217.1	1199.8	1201.8
7.5°	1341.5	1328.1	1284.7	1229.2	1176.2	1127.7	1079.8	1056.2	1038.4	1016.0	1016.0
10°	1316.6	1295.6	1229.2	1148.2	1063.9	993.1	921.6	878.8	847.5	818.9	816.9
12.5°	1315.3	1283.5	1190.9	1079.2	963.7	864.2	766.5	700.7	654.2	620.3	617.1
15°	1325.5	1280.9	1159.0	1014.8	869.2	739.7	619.1	535.4	476.1	438.4	434.7
17.5°	1334.5	1277.7	1124.5	947.2	777.3	619.7	485.7	398.8	342.7	312.1	308.9
20°	1342.8	1270.7	1080.5	875.6	675.9	507.4	379.7	309.5	272.5	255.3	253.4
22.5°	1354.9	1264.3	1034.5	795.2	576.3	413.0	313.3	262.9	243.2	234.9	233.5
25°	1374.7	1265.0	989.9	712.9	485.1	344.0	271.3	240.0	229.1	223.4	223.4
27.5°	1403.4	1272.6	945.8	629.3	407.9	296.8	246.3	227.8	220.9	216.4	215.1
30°	1445.5	1286.7	899.3	550.1	346.6	264.2	231.7	220.1	214.4	210.6	210.0
32.5°	1506.8	1311.5	850.1	478.0	299.9	241.2	220.9	213.8	209.3	206.1	205.5
35°	1598.1	1355.6	802.2	416.8	266.8	224.6	211.9	206.1	203.6	202.3	201.7
37.5°	1732.2	1426.4	756.9	368.9	245.1	213.8	203.0	199.8	198.5	198.5	198.5
40°	1900.6	1519.6	716.1	335.0	232.9	205.5	196.6	194.1	194.1	194.7	194.7
42.5°	2105.4	1636.4	681.0	312.1	226.0	199.8	192.1	190.8	190.2	190.2	190.8
45°	2343.5	1774.2	659.3	294.2	220.9	196.6	188.9	188.2	185.8	184.4	184.4
47.5°	2582.8	1921.6	658.0	284.0	214.4	192.7	185.8	185.8	180.7	178.1	178.7
50°	2806.3	2053.8	672.1	281.4	210.6	187.0	182.5	183.2	176.2	173.0	172.4
52.5°	2986.2	2154.6	689.3	284.7	210.6	181.9	176.8	179.9	172.4	168.5	167.9
55°	3125.3	2224.8	695.6	291.6	213.2	177.4	171.7	176.8	171.0	165.9	165.9
57.5°	3224.9	2247.1	668.2	294.8	217.0	176.8	166.5	176.2	173.0	166.5	166.5
60°	3188.5	2117.6	566.1	282.7	216.4	175.5	162.8	177.4	179.3	172.4	172.4
62.5°	2904.5	1771.6	454.4	255.3	205.5	171.0	158.3	176.2	183.8	181.3	179.9
65°	2364.6	1299.4	352.3	222.7	187.0	161.4	148.7	164.7	173.6	176.2	176.8
67.5°	1666.4	822.7	273.8	189.6	164.0	147.4	137.9	145.5	148.7	150.0	152.5
70°	911.3	445.5	217.6	159.6	140.5	133.4	126.3	127.1	125.7	124.5	125.7
72°	457.6	291.0	183.8	138.5	124.5	120.0	116.8	114.9	114.9	112.9	113.6
72.5°	393.7	270.6	177.4	133.4	120.6	116.8	114.3	112.3	111.7	110.4	111.1
75°	262.3	214.4	148.0	111.7	102.7	100.2	101.5	99.5	100.2	98.9	99.5
77.5°	211.9	184.4	125.7	94.4	88.1	84.3	86.7	87.5	88.7	87.5	86.7
80°	177.4	157.0	105.3	77.8	73.3	70.2	71.5	75.9	76.6	72.7	72.1
82.5°	114.9	126.3	83.0	60.7	56.2	54.9	58.1	62.5	63.8	58.7	57.5
85°	96.4	101.5	59.9	41.5	37.0	35.7	42.1	46.5	49.8	44.7	43.4
87.5°	26.8	49.8	29.4	19.7	16.6	16.6	20.5	24.2	28.7	29.4	29.4
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)