

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: P271314

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271314
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-SL3-7027-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 615mA 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: 6893.9 lumens
Efficiency: N/A
Efficacy: 104.5 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): 66
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

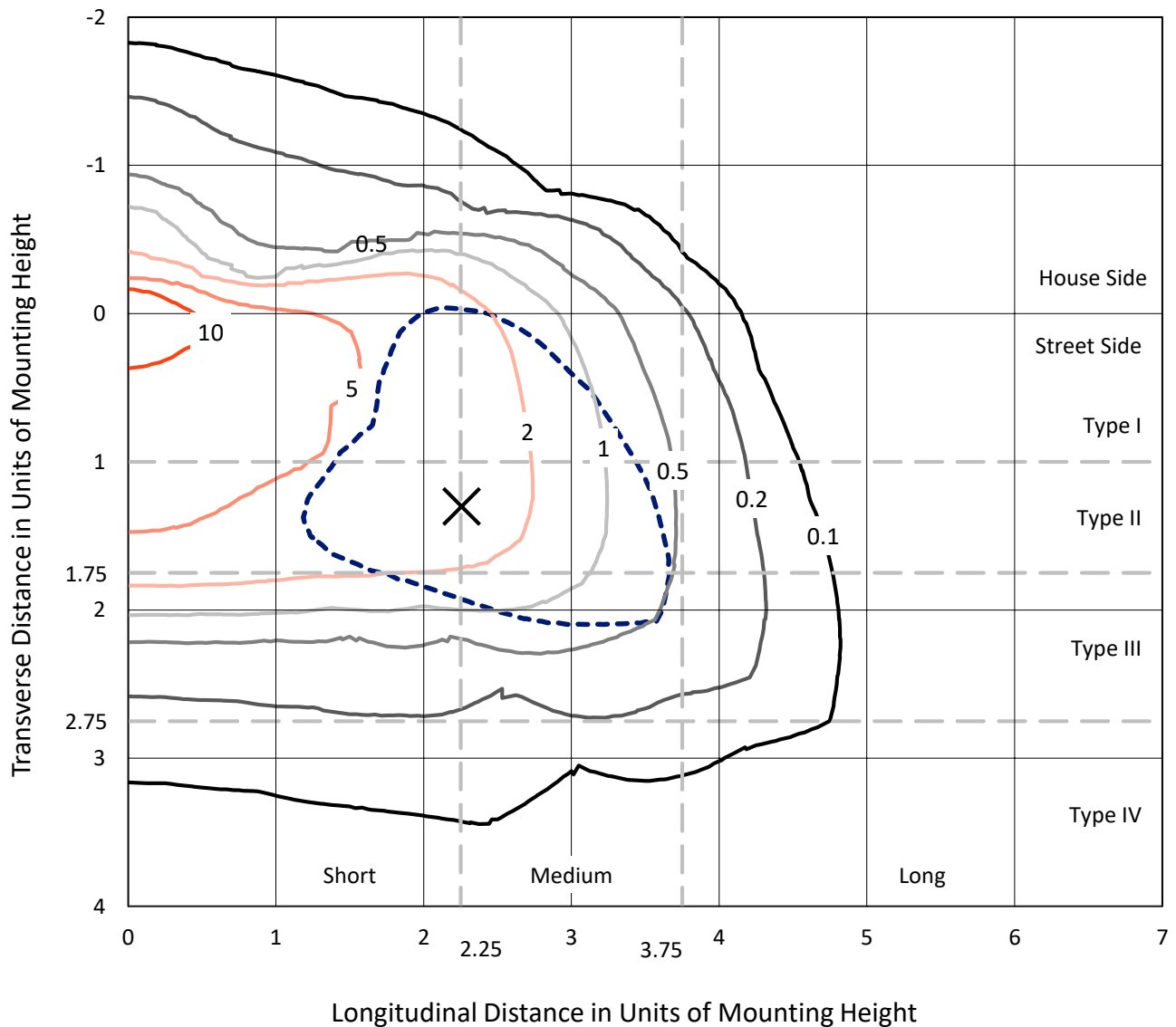


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

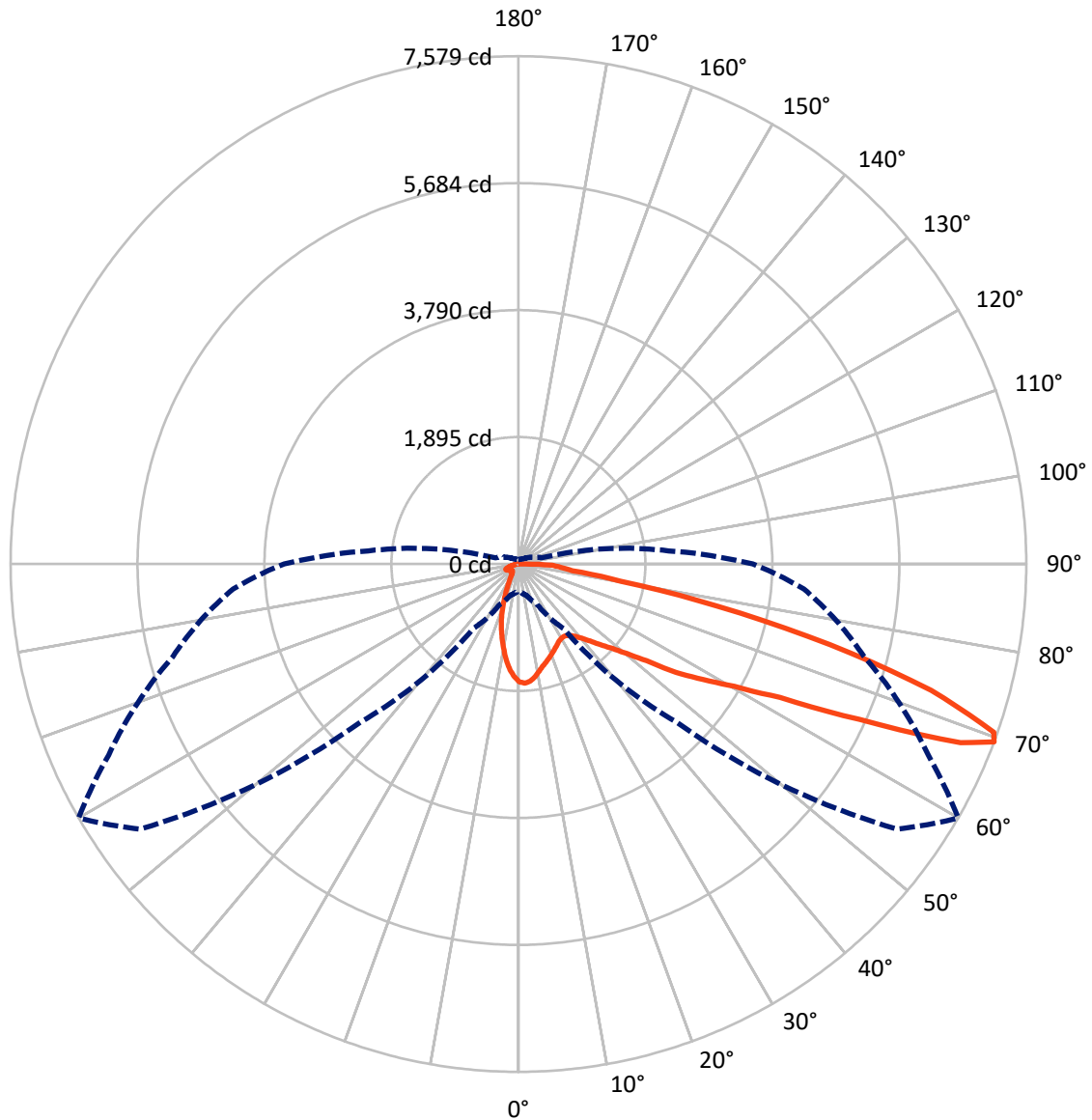


Based on 10 foot mounting height. Maximum calculated value = 17.6 fc
 Type III - Medium - Non-Cutoff

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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	983.2	0.0	983.2
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	5910.6	0.0	5910.6
	% Fixture	85.7	0.0	85.7
Total	Lumens	6893.9	0.0	6893.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.2	2.2
10°-20°	319.5	4.6
20°-30°	407.6	5.9
30°-40°	560.9	8.1
40°-50°	908.5	13.2
50°-60°	1425.9	20.7
60°-70°	1900.9	27.6
70°-80°	1057.4	15.3
80°-90°	164.0	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°	6893.9	100.0
0°-180°	6893.9	100.0

Coefficient of Utilization



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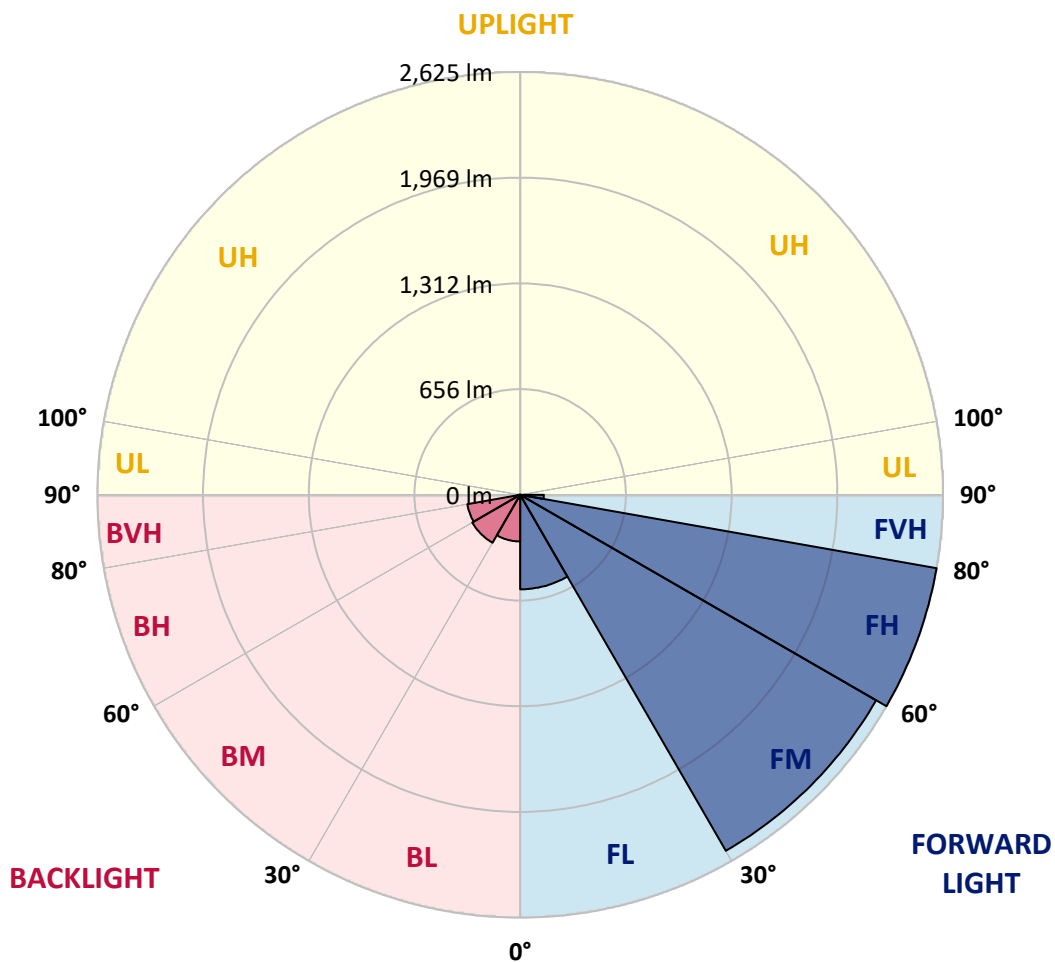
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	586.5	8.5			
FM (30°-60°)	2551.8	37.0			
FH (60°-80°)	2625.0	38.1			G2/5000
FVH (80°-90°)	147.4	2.1			G2/225
BL (0°-30°)	289.8	4.2	B1/500		
BM (30°-60°)	343.5	5.0	B1/1000		
BH (60°-80°)	333.4	4.8	B1/500		G1/500
BVH (80°-90°)	16.6	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°	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1
2.5°	1805.9	1810.8	1810.8	1806.8	1804.5	1791.7	1784.3	1779.0	1769.7	1752.4	1737.0
5°	1741.4	1750.5	1754.6	1756.4	1767.9	1763.9	1764.4	1760.8	1752.9	1734.3	1709.0
7.5°	1622.9	1624.7	1631.7	1643.5	1671.4	1690.9	1706.8	1710.0	1708.1	1694.5	1659.1
10°	1506.2	1509.2	1517.6	1538.0	1564.5	1592.3	1626.8	1640.9	1651.5	1647.1	1602.4
12.5°	1409.4	1409.8	1419.1	1442.5	1472.1	1507.0	1553.9	1575.9	1601.1	1611.4	1561.4
15°	1316.0	1322.2	1331.1	1359.3	1396.1	1440.3	1494.2	1524.8	1557.9	1587.0	1529.5
17.5°	1245.3	1250.3	1255.6	1278.8	1321.3	1376.7	1443.3	1476.1	1519.8	1564.5	1496.8
20°	1206.5	1208.2	1204.2	1215.6	1251.5	1311.2	1388.5	1427.9	1480.0	1542.7	1463.2
22.5°	1198.5	1198.5	1183.8	1181.7	1197.6	1247.9	1331.9	1380.2	1443.8	1527.7	1433.2
25°	1235.6	1233.0	1205.5	1180.4	1174.5	1200.2	1278.0	1337.2	1412.9	1527.4	1410.7
27.5°	1305.9	1302.4	1268.2	1225.8	1189.1	1178.1	1236.4	1297.1	1388.5	1542.4	1399.2
30°	1393.5	1392.2	1357.6	1304.6	1244.1	1187.0	1220.1	1276.2	1372.3	1570.2	1398.8
32.5°	1489.3	1483.1	1461.9	1408.9	1330.2	1236.1	1229.9	1277.1	1367.8	1610.9	1408.9
35°	1591.4	1587.0	1581.7	1528.2	1439.9	1322.7	1272.7	1307.7	1389.5	1667.6	1437.6
37.5°	1721.4	1716.7	1725.5	1667.1	1570.2	1436.3	1345.2	1368.7	1433.7	1749.7	1491.0
40°	1952.6	1938.5	1913.7	1824.0	1722.3	1575.5	1450.0	1453.5	1509.2	1859.9	1576.9
42.5°	2332.4	2286.8	2164.3	1999.4	1882.8	1737.3	1586.5	1569.8	1613.5	2005.2	1701.5
45°	2713.1	2661.7	2454.8	2190.8	2049.0	1911.1	1755.5	1715.3	1743.5	2174.5	1861.9
47.5°	2958.7	2933.5	2700.1	2382.3	2223.1	2100.2	1948.7	1882.4	1902.7	2366.4	2060.1
50°	3030.8	3009.2	2825.7	2532.2	2387.7	2328.9	2187.8	2099.9	2103.4	2590.5	2297.4
52.5°	2977.0	2968.1	2846.5	2625.0	2538.8	2569.8	2518.9	2396.5	2367.4	2836.4	2554.7
55°	2904.8	2908.0	2861.1	2718.4	2692.7	2794.4	2952.2	2853.6	2729.8	3092.2	2822.7
57.5°	2678.0	2680.4	2803.3	2896.0	2986.1	3109.2	3289.5	3247.9	3103.9	3368.6	3122.8
60°	2156.4	2173.7	2447.3	2859.3	3321.8	3729.4	3773.5	3701.9	3501.7	3686.9	3513.1
62.5°	1540.7	1556.1	1873.1	2482.2	3282.3	4431.2	4667.5	4382.7	4041.5	4162.9	4062.2
65°	809.5	806.8	1052.2	1715.3	2764.8	4594.0	6075.9	5591.3	4950.7	4817.7	4592.7
67.5°	452.2	466.8	561.9	865.2	1801.9	4043.2	6975.5	7118.3	6215.2	5337.1	4569.7
69°	418.3	423.0	486.7	668.9	1174.5	3335.9	6898.2	7579.3	6748.2	5339.3	4275.4
70°	406.3	411.6	469.5	616.2	986.7	2733.4	6616.5	7525.5	6877.8	5220.9	4007.3
72.5°	364.3	371.3	427.5	554.0	831.6	1408.9	5329.6	6440.9	6230.1	4563.1	3107.3
75°	310.8	322.8	407.7	549.9	787.8	895.6	3554.2	4798.7	4637.0	3263.5	1763.0
77.5°	128.6	130.0	178.1	402.7	826.7	857.3	1910.2	3039.7	2691.0	1431.0	530.9
80°	89.7	87.9	88.8	117.6	667.1	862.9	980.1	1546.0	1201.6	377.6	248.4
82.5°	75.5	74.6	78.2	73.8	226.0	979.2	819.7	805.9	565.8	203.3	118.4
85°	49.9	48.6	64.0	67.3	107.4	777.7	881.4	633.5	421.8	108.8	50.3
87.5°	24.3	24.8	36.7	45.5	57.0	246.2	844.3	500.9	325.8	47.3	20.3
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°	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1
2.5°	1730.8	1717.5	1705.5	1690.5	1679.0	1669.3	1655.9	1655.5	1653.3	1656.5	1657.4
5°	1692.2	1670.2	1636.5	1599.0	1572.5	1537.4	1503.6	1491.9	1479.1	1477.8	1481.8
7.5°	1634.3	1599.8	1542.4	1484.9	1427.4	1368.7	1313.0	1284.7	1257.3	1248.9	1252.9
10°	1569.8	1526.0	1438.0	1344.4	1263.5	1175.9	1091.0	1036.3	986.2	965.0	970.3
12.5°	1519.5	1463.7	1339.9	1218.3	1097.2	971.6	859.9	751.5	669.7	633.0	635.2
15°	1476.1	1404.9	1247.9	1086.2	934.5	762.7	607.4	481.9	410.3	383.8	382.9
17.5°	1429.3	1343.1	1152.0	963.3	766.6	554.0	406.8	332.5	304.2	295.4	295.4
20°	1379.3	1279.4	1051.6	829.3	589.7	386.8	306.0	277.1	266.5	263.9	263.5
22.5°	1332.8	1217.1	950.9	686.6	426.5	293.6	260.4	249.3	247.6	249.8	249.8
25°	1296.2	1162.1	848.8	536.3	310.4	245.7	231.7	230.3	237.0	244.9	246.2
27.5°	1268.8	1113.1	748.0	391.8	244.0	213.9	209.0	214.9	230.3	246.2	249.3
30°	1249.7	1071.1	627.2	281.6	203.3	187.4	189.6	199.9	223.3	247.6	254.2
32.5°	1241.4	1037.2	505.7	216.2	173.7	164.8	170.7	184.0	208.1	232.5	240.4
35°	1249.4	1012.3	393.5	179.5	152.1	145.4	152.1	165.7	181.6	193.7	198.4
37.5°	1278.0	1003.4	296.3	159.1	137.9	131.3	136.6	145.9	152.9	157.4	159.5
40°	1338.7	1012.7	232.1	148.5	130.0	122.4	123.7	128.2	133.0	136.6	137.0
42.5°	1435.0	1043.3	206.4	144.5	125.1	115.4	113.1	116.3	121.6	126.4	127.3
45°	1563.2	1094.1	203.7	145.9	122.9	109.7	105.2	108.3	115.4	123.3	124.7
47.5°	1729.0	1174.5	216.2	152.9	124.2	106.4	99.9	102.9	112.3	122.9	124.7
50°	1925.2	1286.1	239.2	163.6	130.4	106.4	97.6	100.3	110.1	122.0	123.7
52.5°	2156.4	1441.2	263.1	174.2	139.2	110.5	98.5	98.2	107.0	118.0	120.3
55°	2411.5	1633.8	286.0	183.4	144.1	115.8	100.8	95.5	102.5	111.4	113.1
57.5°	2711.7	1897.8	326.3	192.2	146.8	119.8	103.5	92.9	96.7	102.9	104.4
60°	3118.8	2285.5	404.4	207.2	151.6	121.6	103.8	90.2	89.7	94.1	94.6
62.5°	3649.8	2739.6	479.2	225.0	161.3	122.0	102.0	88.5	84.0	85.2	85.2
65°	4027.3	2906.6	457.5	240.0	170.1	121.6	100.3	87.0	79.6	77.3	77.3
67.5°	3812.4	2567.5	388.5	244.0	171.0	116.7	96.4	84.0	75.5	70.2	70.2
69°	3496.8	2250.7	356.7	237.0	164.0	111.0	91.9	80.8	72.9	66.7	66.7
70°	3239.5	2010.5	337.4	228.6	155.5	106.1	87.9	77.9	70.2	64.9	64.6
72.5°	2418.5	1341.7	288.3	197.2	127.7	89.7	77.0	69.3	63.2	59.6	59.6
75°	1276.2	672.4	236.1	160.9	98.5	71.7	63.2	58.4	54.8	54.3	54.0
77.5°	418.3	304.2	169.8	121.1	72.6	55.8	50.3	47.3	46.8	48.6	48.6
80°	226.0	181.6	109.2	81.7	50.3	41.5	38.8	38.4	39.7	42.4	42.4
82.5°	109.7	89.7	64.9	50.3	34.5	30.5	30.5	30.9	32.7	35.8	35.8
85°	47.3	42.4	37.5	28.2	21.2	19.0	21.6	23.9	25.2	27.4	28.2
87.5°	22.5	19.9	17.2	11.0	9.3	9.7	11.5	14.2	16.8	18.5	19.0
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)