

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: P199173

Luminaire Tested: **XNV2-AF-02-LED-U-SL2-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24258)
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-SL2-8030-800-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6486 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Semi-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

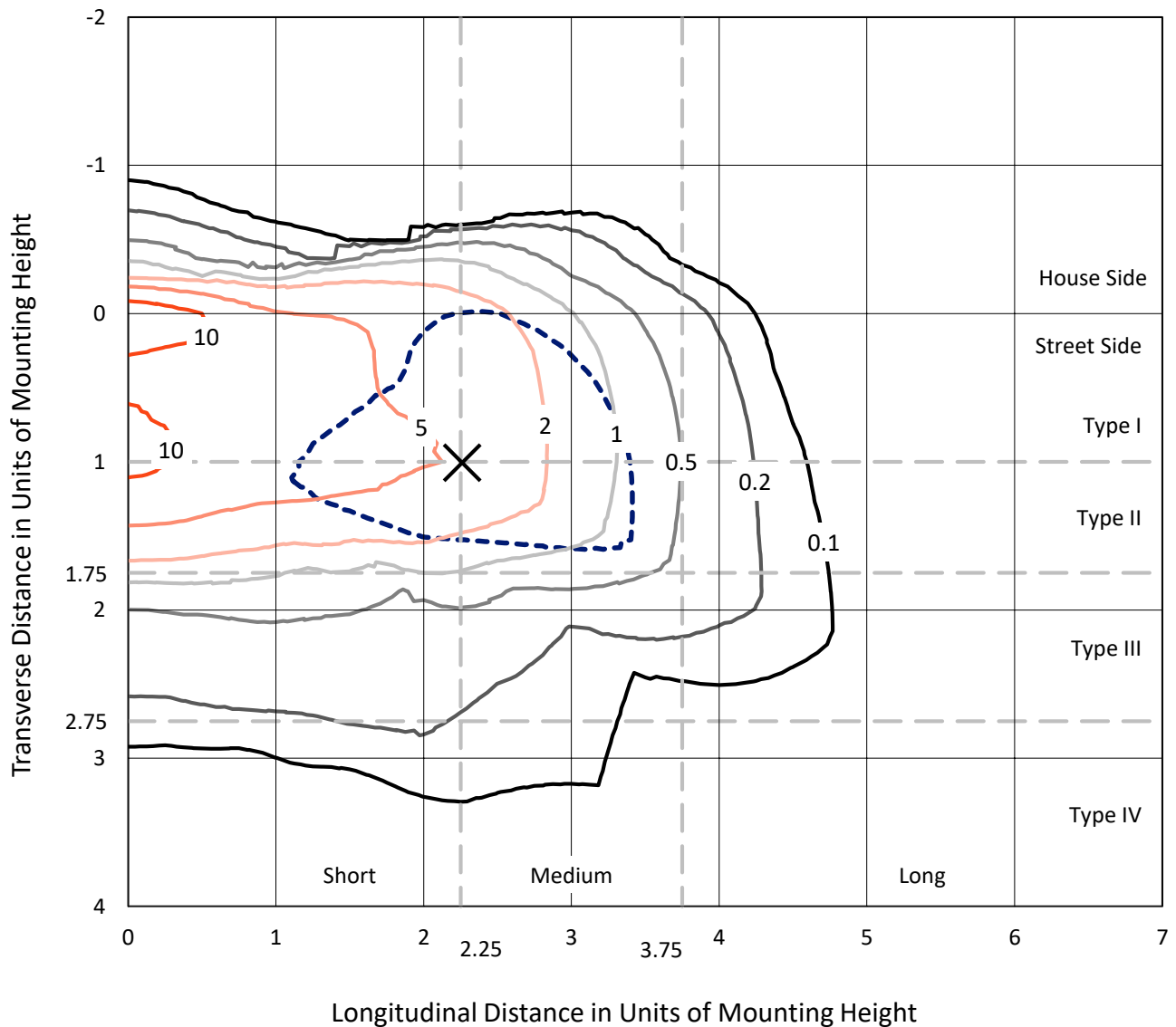


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

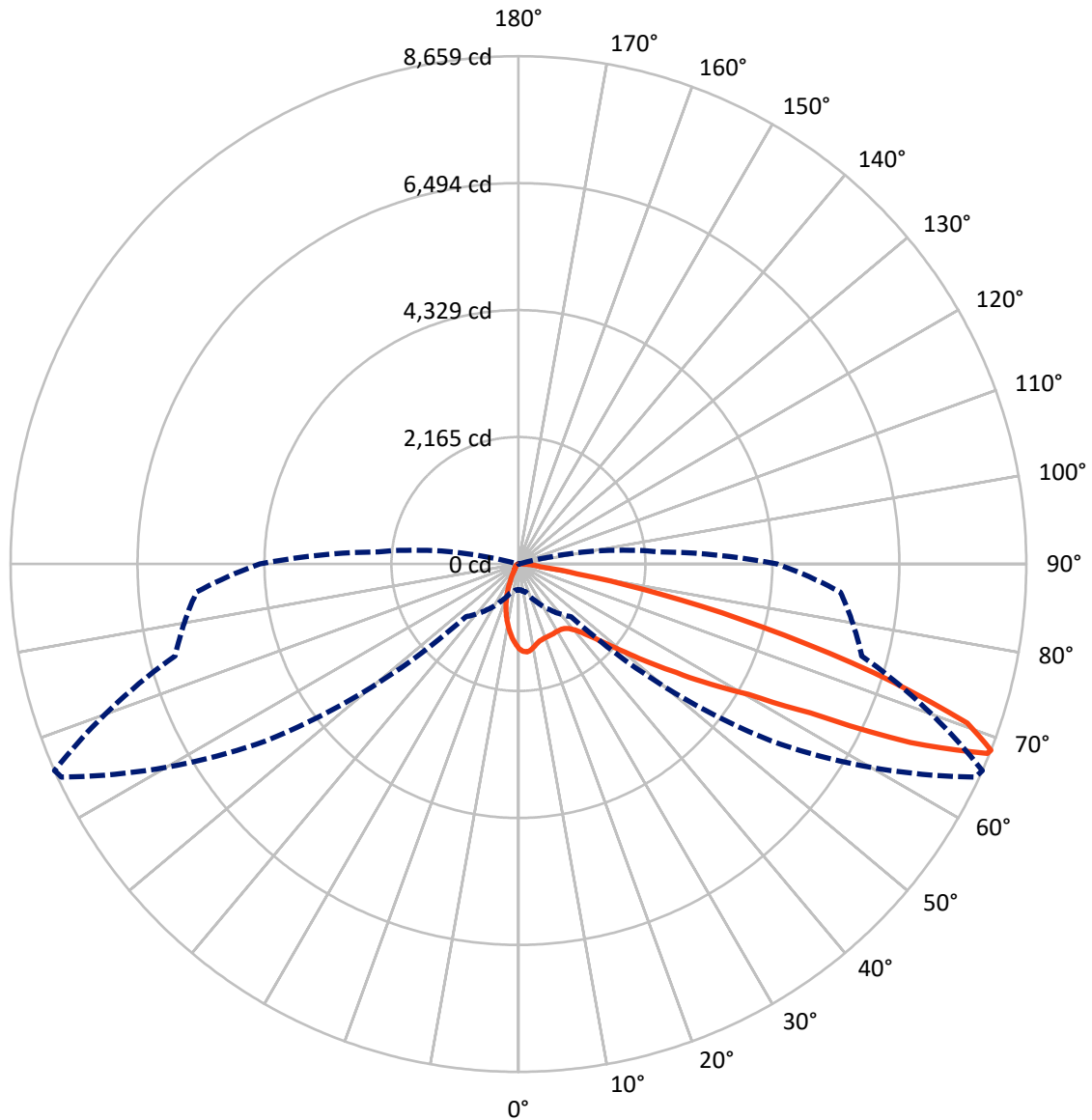


Based on 10 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	657.0	0.0	657.0
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	5829.0	0.0	5829.0
	% Fixture	89.9	0.0	89.9
Total	Lumens	6486.0	0.0	6486.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	1.8
10°-20°	254.9	3.9
20°-30°	369.4	5.7
30°-40°	565.4	8.7
40°-50°	967.1	14.9
50°-60°	1512.8	23.3
60°-70°	1741.9	26.9
70°-80°	871.7	13.4
80°-90°	84.4	1.3
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°	6486.0	100.0
0°-180°	6486.0	100.0

Coefficient of Utilization



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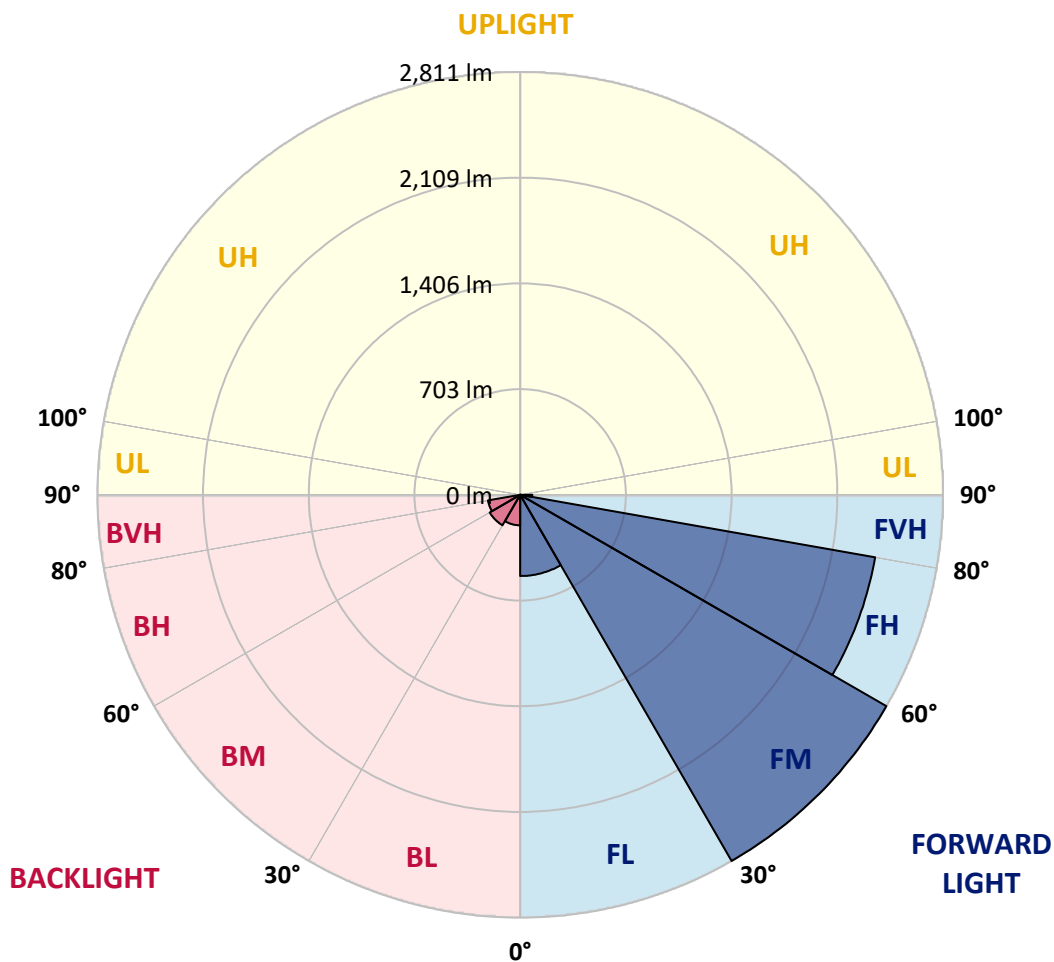
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	539.9	8.3			
FM	(30°-60°)	2811.3	43.3			
FH	(60°-80°)	2396.6	36.9			G2/5000
FVH	(80°-90°)	81.2	1.3			G1/100
BL	(0°-30°)	202.8	3.1	B1/500		
BM	(30°-60°)	233.9	3.6	B1/1000		
BH	(60°-80°)	217.1	3.3	B1/500		G1/500
BVH	(80°-90°)	3.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1445.0	1445.0	1445.0	1445.0	1445.0	1445.0	1445.0	1445.0	1445.0	1445.0	1445.0
2.5°	1519.9	1520.9	1520.4	1521.9	1520.9	1513.2	1505.1	1487.8	1489.3	1466.9	1442.0
5°	1412.9	1421.6	1430.3	1438.9	1459.8	1478.1	1500.0	1505.1	1505.1	1485.8	1449.1
7.5°	1304.0	1304.5	1314.2	1325.9	1353.9	1387.5	1438.4	1484.2	1485.2	1490.3	1450.1
10°	1222.0	1224.5	1231.2	1243.9	1271.9	1305.0	1362.0	1433.8	1439.4	1477.1	1439.9
12.5°	1158.4	1161.4	1168.5	1183.3	1208.8	1242.9	1303.0	1384.9	1392.6	1464.4	1436.9
15°	1109.5	1113.6	1119.2	1133.9	1161.4	1197.6	1263.2	1352.4	1361.5	1459.3	1446.5
17.5°	1089.1	1089.1	1088.6	1098.8	1126.3	1162.9	1231.7	1335.0	1346.8	1463.3	1462.8
20°	1097.8	1096.2	1085.5	1083.0	1099.8	1136.5	1206.7	1323.8	1337.1	1471.0	1482.7
22.5°	1143.6	1140.5	1116.6	1096.7	1091.7	1116.1	1189.9	1316.2	1332.0	1486.8	1509.2
25°	1240.8	1231.7	1198.6	1153.8	1113.6	1111.0	1178.2	1312.1	1328.9	1505.1	1538.2
27.5°	1367.1	1364.6	1311.6	1251.5	1174.1	1127.8	1174.7	1309.1	1325.9	1518.3	1561.6
30°	1523.9	1525.0	1463.9	1385.4	1268.3	1175.2	1185.9	1307.5	1324.9	1519.4	1571.8
32.5°	1685.9	1686.9	1636.0	1551.9	1397.2	1256.6	1217.4	1314.7	1330.5	1515.3	1571.3
35°	1841.7	1843.2	1812.6	1744.9	1569.3	1369.7	1277.0	1339.1	1350.3	1517.8	1570.3
37.5°	2038.7	2044.8	2007.1	1944.0	1785.1	1535.7	1374.2	1388.5	1397.7	1538.7	1577.9
40°	2374.8	2366.6	2258.7	2151.7	2019.4	1737.8	1514.8	1473.5	1476.6	1592.7	1606.9
42.5°	2766.3	2756.1	2571.3	2387.0	2260.2	1981.7	1694.5	1603.9	1603.4	1683.3	1670.1
45°	3103.4	3097.3	2902.8	2656.8	2527.0	2251.0	1916.0	1791.8	1785.7	1840.1	1785.1
47.5°	3342.7	3337.6	3190.4	2944.0	2835.6	2547.4	2192.5	2047.9	2035.1	2045.3	1972.0
50°	3366.1	3360.5	3309.1	3150.7	3196.0	2982.2	2534.1	2383.4	2367.1	2351.3	2254.6
52.5°	3147.2	3146.7	3173.6	3163.5	3448.6	3541.8	2953.2	2798.4	2779.0	2738.8	2642.6
55°	2699.6	2697.1	2799.4	2948.1	3443.0	4119.2	3592.2	3292.3	3266.8	3186.4	3060.1
57.5°	1972.5	1959.3	2173.1	2488.3	3201.1	4371.7	4607.0	3905.8	3863.6	3608.5	3414.0
60°	1089.1	1094.2	1369.2	1742.4	2628.3	4321.8	5540.8	4621.2	4510.2	3972.5	3776.5
62.5°	610.5	623.2	827.9	1132.4	1675.7	3917.0	6041.8	5852.4	5585.1	4397.2	4234.8
65°	461.8	469.5	572.3	873.7	1056.5	2737.3	6121.7	7573.9	7343.2	5040.8	4964.4
67.5°	434.8	440.9	491.3	724.5	962.3	1419.6	5519.9	8592.2	8621.2	5918.6	5529.6
68°	437.9	445.5	495.9	697.1	960.8	1269.9	5263.3	8597.3	8658.9	6060.1	5510.2
70°	402.2	404.3	524.4	683.8	931.3	1000.5	3807.6	8008.2	8118.7	6228.7	5002.1
72.5°	153.8	154.3	235.2	592.2	975.6	1006.1	1918.0	6329.5	6335.1	5420.6	3899.7
75°	79.9	67.2	73.8	185.3	931.8	980.7	962.3	4321.8	4294.8	3666.0	2389.5
77.5°	55.0	46.8	49.4	64.2	387.5	980.1	695.0	2485.3	2479.6	1559.6	681.8
80°	31.1	27.0	29.5	54.0	135.9	920.1	647.7	1068.2	1006.6	273.9	110.5
82.5°	15.8	13.2	15.8	45.3	84.5	578.9	629.8	419.0	373.2	65.2	71.8
85°	4.1	4.1	7.6	31.6	52.4	189.9	564.7	302.4	271.9	28.5	50.9
87.5°	1.0	0.5	3.1	11.7	18.8	41.2	313.1	168.5	145.1	14.8	29.5
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°	1445.0	1445.0	1445.0	1445.0	1445.0	1445.0	1445.0	1445.0	1445.0	1445.0	1445.0
2.5°	1431.8	1417.5	1389.5	1358.0	1335.5	1311.1	1296.9	1279.5	1266.3	1254.6	1263.2
5°	1426.7	1399.2	1337.1	1267.3	1208.8	1152.8	1111.0	1071.3	1041.2	1022.4	1030.0
7.5°	1413.5	1372.7	1271.9	1162.9	1067.2	977.1	903.8	838.1	787.2	759.7	768.3
10°	1391.0	1333.5	1198.1	1046.8	912.9	785.6	676.7	578.9	505.1	470.5	478.6
12.5°	1374.8	1298.9	1121.7	934.8	758.7	577.9	433.3	321.3	263.7	229.1	232.2
15°	1367.6	1271.9	1050.4	816.7	590.1	371.2	234.2	169.6	149.7	142.6	143.1
17.5°	1368.6	1250.5	982.7	694.0	420.1	213.3	143.6	129.3	126.3	124.7	124.7
20°	1371.2	1229.1	912.4	566.2	268.8	137.5	119.7	115.1	113.5	111.5	112.0
22.5°	1378.8	1212.8	841.7	437.9	165.5	112.0	105.9	101.8	99.3	96.2	96.7
25°	1390.5	1200.6	771.9	315.2	116.6	97.8	92.2	86.6	82.0	78.4	78.9
27.5°	1397.7	1183.3	697.6	214.9	96.7	85.5	77.9	70.3	65.2	62.1	61.6
30°	1392.6	1155.3	613.0	141.0	85.5	73.8	64.7	56.0	50.9	48.4	48.4
32.5°	1378.8	1119.2	519.9	102.9	75.9	63.6	52.4	44.8	41.2	39.7	40.2
35°	1363.0	1081.5	420.6	87.1	68.2	54.0	42.8	36.7	35.1	34.6	34.6
37.5°	1354.4	1048.9	325.4	78.9	61.1	44.8	35.1	31.6	30.0	30.0	30.0
40°	1364.1	1023.9	240.8	72.8	54.0	37.2	29.5	27.0	26.5	26.5	26.5
42.5°	1405.3	1015.3	176.2	67.7	46.8	31.1	25.5	23.4	22.9	23.4	23.4
45°	1485.8	1034.1	133.4	62.6	40.2	25.5	21.9	20.4	20.4	20.9	20.9
47.5°	1622.2	1082.5	109.5	57.5	33.6	21.4	18.8	17.8	17.8	18.3	18.3
50°	1834.0	1172.1	98.3	51.9	28.0	18.3	15.8	15.3	15.3	15.8	16.3
52.5°	2155.8	1342.7	92.7	46.3	22.9	15.3	13.2	12.7	13.2	13.7	13.7
55°	2513.8	1561.1	86.0	40.7	19.3	12.7	10.7	10.7	11.2	12.2	12.2
57.5°	2847.3	1771.9	79.9	33.6	16.8	10.2	8.7	8.7	9.7	10.7	10.7
60°	3199.6	1978.6	71.8	27.0	14.3	8.1	7.1	7.1	8.7	9.7	10.2
62.5°	3635.0	2219.0	61.1	21.4	11.2	6.1	5.1	6.6	8.1	9.7	9.7
65°	4264.3	2517.8	47.9	16.8	8.7	4.6	4.1	6.1	7.6	9.2	9.7
67.5°	4492.9	2479.6	36.2	13.7	6.6	3.6	3.6	5.6	7.6	9.2	9.2
68°	4409.4	2396.1	34.6	13.2	6.1	3.6	3.6	5.6	7.6	9.2	9.2
70°	3842.2	1958.8	28.5	10.2	5.1	3.1	3.1	5.1	7.6	8.7	9.2
72.5°	2876.8	1301.4	24.4	6.6	4.6	3.1	2.5	5.1	7.1	8.7	8.7
75°	1650.2	540.2	20.9	5.1	4.1	2.5	2.5	4.6	7.1	8.7	8.7
77.5°	466.4	126.3	16.8	4.1	3.6	2.5	2.0	4.6	6.6	8.1	8.1
80°	85.5	37.7	13.2	3.6	3.1	2.5	2.0	4.6	6.6	8.1	8.1
82.5°	56.5	17.8	9.7	3.6	3.1	2.5	2.0	4.1	6.1	7.6	7.6
85°	42.3	12.7	6.1	3.6	3.1	2.5	2.0	4.1	6.1	7.6	7.6
87.5°	23.4	5.6	4.6	4.1	3.6	2.5	2.0	3.6	5.6	7.1	7.1
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)