

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: P479945

Luminaire Tested: **IFLD-S-SA2A-722-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479945
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-722-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

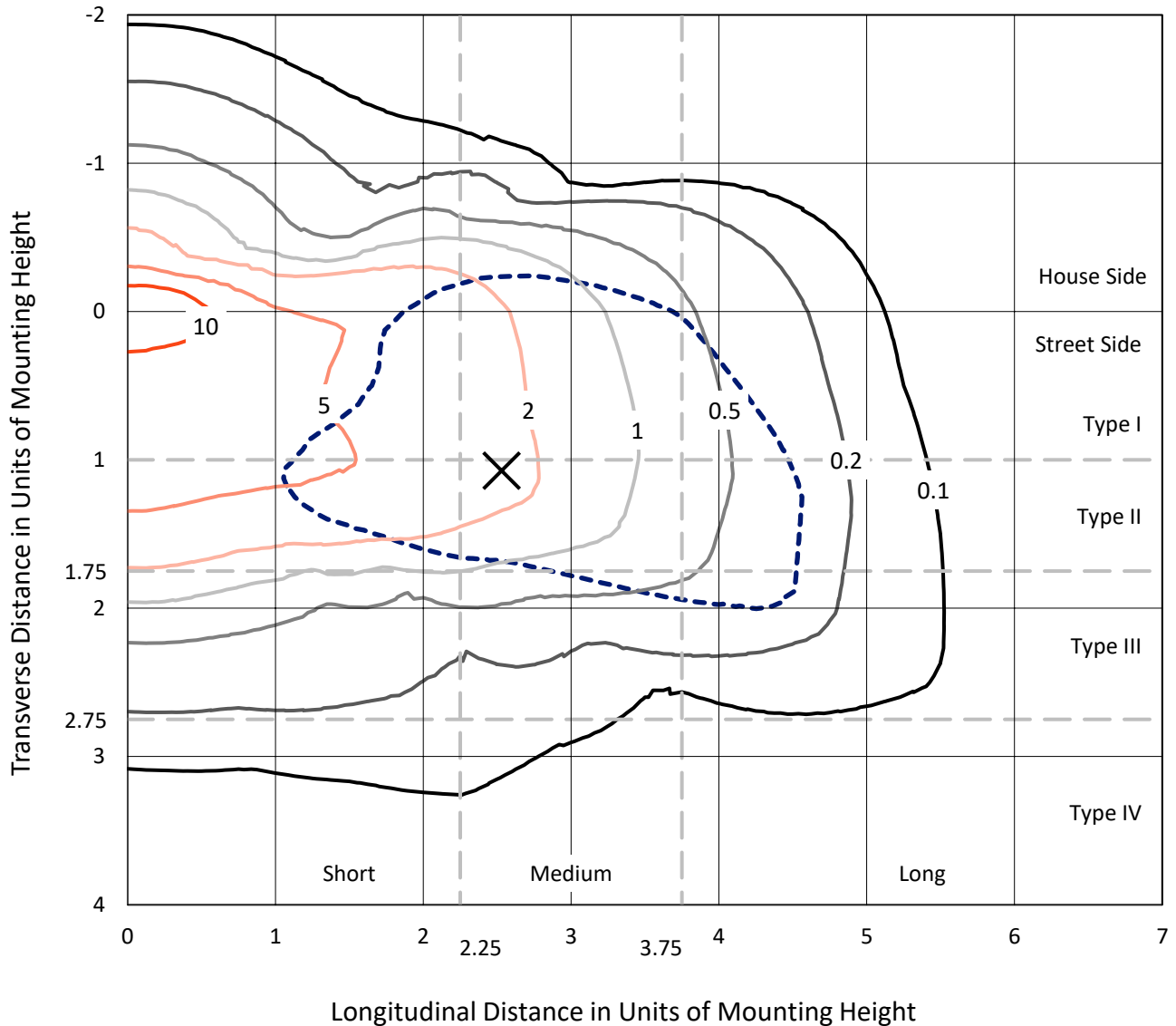
Lumens per Lamp: N/A
Luminaire Lumens: 6780.4 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
Input Voltage (V): 120
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

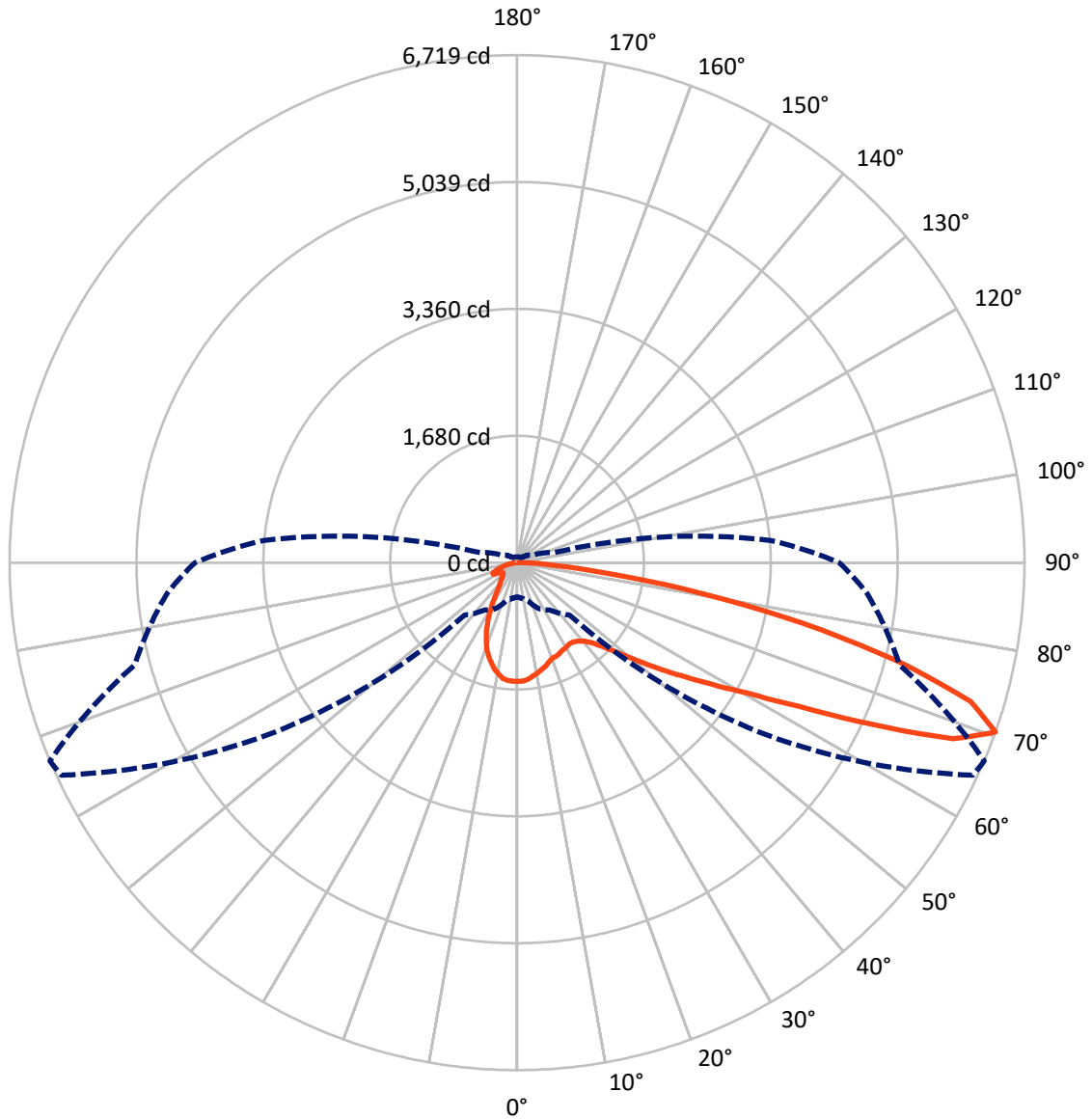
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1320.6	0.0	1320.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	5459.9	0.0	5459.9
	% Fixture	80.5	0.0	80.5
Total	Lumens	6780.4	0.0	6780.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	2.0
10°-20°	328.0	4.8
20°-30°	442.9	6.5
30°-40°	592.7	8.7
40°-50°	871.5	12.9
50°-60°	1358.5	20.0
60°-70°	1673.5	24.7
70°-80°	1182.5	17.4
80°-90°	193.8	2.9
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°	6780.4	100.0
0°-180°	6780.4	100.0

Coefficient of Utilization



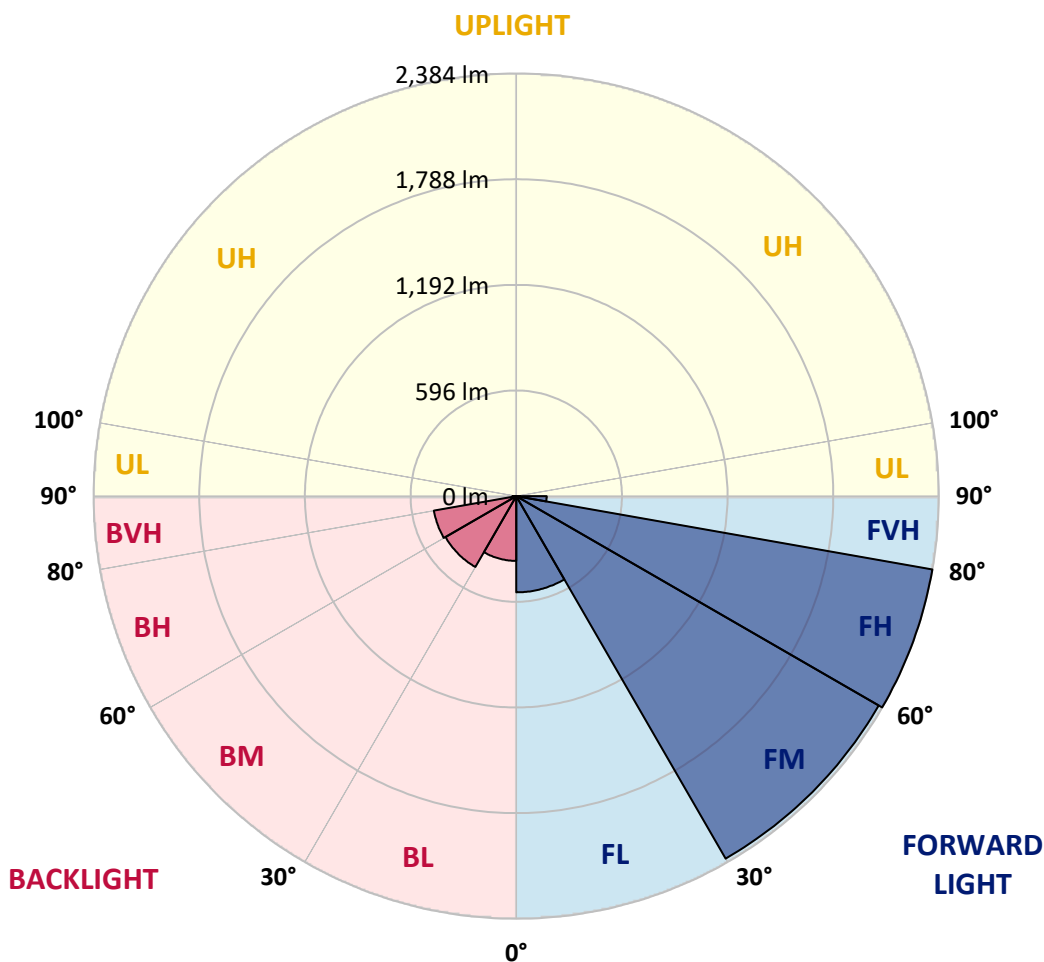
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	542.7	8.0			
FM (30°-60°)	2361.5	34.8			
FH (60°-80°)	2384.2	35.2			G2/5000
FVH (80°-90°)	171.5	2.5			G2/225
BL (0°-30°)	365.2	5.4	B1/500		
BM (30°-60°)	461.3	6.8	B1/1000		
BH (60°-80°)	471.7	7.0	B1/500		G1/500
BVH (80°-90°)	22.4	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7
2.5°	1461.6	1478.1	1484.1	1493.1	1516.4	1533.6	1544.1	1556.1	1570.4	1582.4	1589.9
5°	1359.5	1368.5	1382.7	1392.5	1421.8	1468.3	1499.8	1550.9	1549.4	1568.2	1596.7
7.5°	1260.4	1269.4	1276.1	1295.7	1337.7	1379.7	1437.5	1520.1	1514.1	1557.6	1601.9
10°	1198.8	1192.1	1194.3	1227.3	1260.4	1307.7	1380.5	1464.6	1486.3	1553.9	1616.9
12.5°	1141.0	1133.5	1151.5	1172.5	1213.1	1255.9	1342.9	1418.8	1451.8	1540.4	1623.7
15°	1105.0	1099.7	1122.3	1131.3	1179.3	1230.3	1291.9	1384.2	1420.3	1523.9	1613.2
17.5°	1084.7	1089.2	1097.5	1117.0	1147.8	1191.3	1258.9	1361.0	1376.7	1503.6	1610.9
20°	1088.5	1093.7	1094.5	1102.7	1123.8	1157.5	1226.6	1336.2	1346.7	1499.8	1616.9
22.5°	1118.5	1111.0	1114.0	1108.7	1114.7	1141.0	1201.8	1303.2	1343.7	1468.3	1604.2
25°	1163.5	1153.0	1151.5	1133.5	1122.3	1129.8	1197.3	1294.9	1321.2	1458.6	1603.4
27.5°	1243.1	1227.3	1227.3	1200.3	1154.5	1142.5	1184.6	1281.4	1304.7	1449.5	1586.2
30°	1319.7	1319.7	1320.4	1282.1	1231.1	1171.8	1189.8	1276.1	1291.2	1422.5	1562.9
32.5°	1412.8	1410.5	1406.8	1388.0	1309.2	1220.6	1215.3	1269.4	1276.9	1413.5	1556.1
35°	1503.6	1497.6	1526.9	1510.3	1430.0	1315.9	1241.6	1272.4	1288.9	1400.0	1535.1
37.5°	1571.9	1575.7	1636.5	1647.0	1577.9	1424.0	1315.9	1302.4	1318.2	1419.5	1535.1
40°	1660.5	1675.5	1732.5	1767.8	1725.8	1566.6	1433.8	1352.7	1364.0	1463.1	1568.2
42.5°	1776.8	1789.6	1862.4	1908.2	1896.2	1748.3	1550.1	1457.8	1448.8	1535.9	1617.7
45°	1930.7	1933.0	2006.5	2069.6	2094.4	1938.2	1734.8	1590.7	1583.2	1661.2	1708.5
47.5°	2113.9	2111.6	2157.4	2225.0	2291.8	2164.9	1947.2	1792.6	1765.6	1840.6	1859.4
50°	2291.0	2281.3	2291.8	2378.1	2506.5	2448.7	2205.5	2039.6	2012.5	2053.8	2086.1
52.5°	2388.6	2400.6	2372.1	2486.2	2734.7	2784.2	2547.8	2334.6	2311.3	2331.6	2387.9
55°	2320.3	2345.1	2326.3	2434.4	2834.5	3193.4	2990.7	2676.1	2646.1	2638.6	2730.9
57.5°	2029.8	2074.9	2078.6	2249.8	2800.0	3510.1	3613.7	3079.2	3034.2	2957.6	3053.0
60°	1558.4	1603.4	1638.0	1840.6	2504.2	3699.3	4335.9	3652.8	3504.1	3306.0	3363.0
62.5°	1092.2	1123.0	1157.5	1282.1	1930.7	3588.2	4960.4	4460.5	4186.5	3673.0	3744.3
65°	795.7	819.7	855.0	928.6	1186.1	2968.9	5250.2	5419.8	5160.1	4139.9	4130.9
67.5°	599.0	614.0	660.6	778.4	822.0	1833.9	4949.9	6433.2	6223.1	4658.7	4441.7
70°	453.4	466.2	509.7	671.1	767.9	983.4	3905.0	6659.2	6719.2	5240.4	4650.4
72.5°	312.3	326.5	375.3	559.2	731.2	779.9	2450.9	6049.7	6277.1	5479.9	4426.7
75°	191.4	201.2	229.7	424.1	725.9	762.7	1349.0	4957.4	5198.4	5063.3	3872.7
77.5°	135.1	134.4	139.6	248.5	629.1	767.2	831.7	3632.5	3866.7	3731.6	2628.1
80°	98.3	99.1	104.3	148.6	427.1	779.9	655.3	2432.9	2502.7	1945.7	1036.7
82.5°	59.3	62.3	75.1	100.6	256.7	704.1	605.8	1352.0	1264.9	624.6	285.3
85°	31.5	31.5	44.3	63.8	136.6	525.5	583.3	643.3	539.0	193.7	105.8
87.5°	7.5	7.5	12.8	25.5	54.8	251.5	397.9	256.0	204.9	65.3	43.5
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°	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7
2.5°	1586.9	1577.9	1589.2	1566.6	1548.6	1549.4	1521.6	1520.1	1516.4	1496.8	1503.6
5°	1604.9	1597.4	1584.7	1559.9	1520.1	1480.3	1456.3	1425.5	1412.8	1406.0	1409.0
7.5°	1622.2	1608.7	1571.9	1537.4	1475.8	1400.8	1357.2	1315.9	1263.4	1257.4	1246.9
10°	1626.7	1598.2	1550.9	1477.3	1395.5	1312.2	1213.1	1136.5	1096.0	1064.5	1052.4
12.5°	1619.9	1607.9	1517.1	1422.5	1298.7	1168.0	1052.4	944.3	869.3	830.2	819.7
15°	1619.2	1598.2	1479.6	1339.2	1180.8	1010.4	846.0	716.1	637.3	605.0	605.0
17.5°	1619.9	1569.7	1435.3	1255.1	1041.9	811.5	630.6	524.0	480.4	475.9	479.7
20°	1604.9	1548.6	1388.7	1156.0	867.8	609.5	457.9	414.4	414.4	420.4	422.6
22.5°	1591.4	1517.1	1315.2	1033.7	690.6	441.4	372.3	359.6	373.8	384.3	388.8
25°	1572.7	1490.8	1240.1	906.8	525.5	355.8	323.5	326.5	340.1	358.8	357.3
27.5°	1545.6	1445.0	1150.8	759.7	391.1	307.0	298.8	300.3	314.5	322.8	321.3
30°	1514.9	1398.5	1068.2	613.3	310.0	281.5	280.8	284.5	286.8	291.3	290.5
32.5°	1475.8	1336.9	980.4	476.7	279.2	267.2	264.2	262.0	264.2	263.5	261.2
35°	1448.0	1303.9	891.0	363.3	262.0	254.5	252.2	248.5	245.5	241.0	240.2
37.5°	1440.5	1270.9	797.2	296.5	248.5	244.7	237.2	230.5	226.7	224.5	222.9
40°	1436.0	1249.1	705.6	260.5	237.2	233.5	224.5	215.4	211.7	209.4	210.2
42.5°	1451.8	1237.1	612.5	242.5	227.5	220.7	210.9	200.4	199.7	198.2	200.4
45°	1507.3	1252.1	526.2	229.7	217.7	206.4	193.7	188.4	187.7	186.2	187.7
47.5°	1633.5	1289.7	452.7	221.4	207.2	197.4	183.9	176.4	175.7	174.9	174.9
50°	1807.6	1405.3	391.1	211.7	200.4	186.9	174.2	165.9	164.4	161.4	161.4
52.5°	2080.9	1599.7	354.3	206.4	188.4	177.2	163.6	154.6	150.9	147.9	147.9
55°	2388.6	1840.6	347.6	197.4	175.7	165.1	153.1	144.1	140.4	136.6	135.1
57.5°	2739.2	2159.7	395.6	191.4	166.6	153.1	139.6	131.4	128.4	124.6	123.1
60°	3065.7	2478.0	545.0	182.4	158.4	141.9	128.4	120.1	116.4	112.6	112.6
62.5°	3443.3	2872.1	798.0	182.4	150.9	129.9	116.4	110.3	108.1	104.3	103.6
65°	3890.0	3279.7	982.6	193.7	148.6	119.4	105.1	99.1	96.8	94.6	93.8
67.5°	4230.0	3513.9	845.3	223.7	158.4	110.3	93.8	90.1	88.6	86.3	84.8
70°	4266.1	3371.3	509.7	241.7	168.2	101.3	84.1	80.3	80.3	78.1	76.6
72.5°	3942.5	2991.4	343.1	215.4	152.4	90.8	74.3	71.3	69.8	68.3	67.6
75°	3299.2	2537.3	271.0	171.9	117.1	75.1	64.6	61.6	59.3	58.6	57.1
77.5°	2216.0	1649.2	200.4	134.4	86.3	60.8	54.0	51.0	48.8	48.0	45.8
80°	851.3	628.3	129.1	97.6	60.8	48.0	42.8	39.8	38.3	36.0	34.5
82.5°	250.7	203.4	72.1	60.1	39.0	33.0	30.8	28.5	26.3	24.0	23.3
85°	103.6	93.1	44.3	31.5	24.0	19.5	18.0	15.8	13.5	12.0	10.5
87.5°	48.0	39.8	20.3	12.0	8.3	4.5	2.3	0.8	0.0	0.0	0.0
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)