

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: P480257

Luminaire Tested: **IFLD-S-SA2A-830-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480257
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-830-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

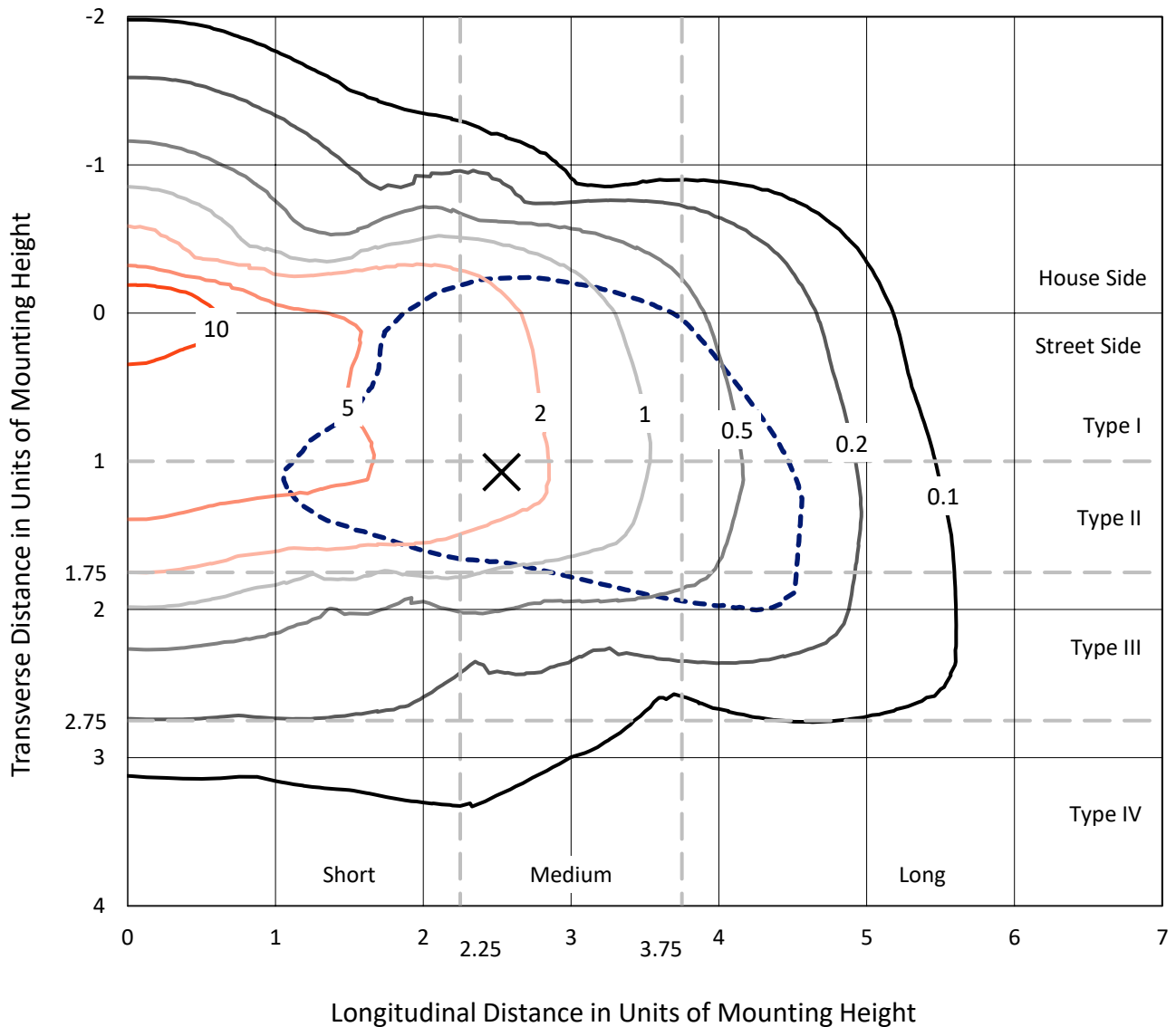
Lumens per Lamp: N/A
Luminaire Lumens: 7314.3 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

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

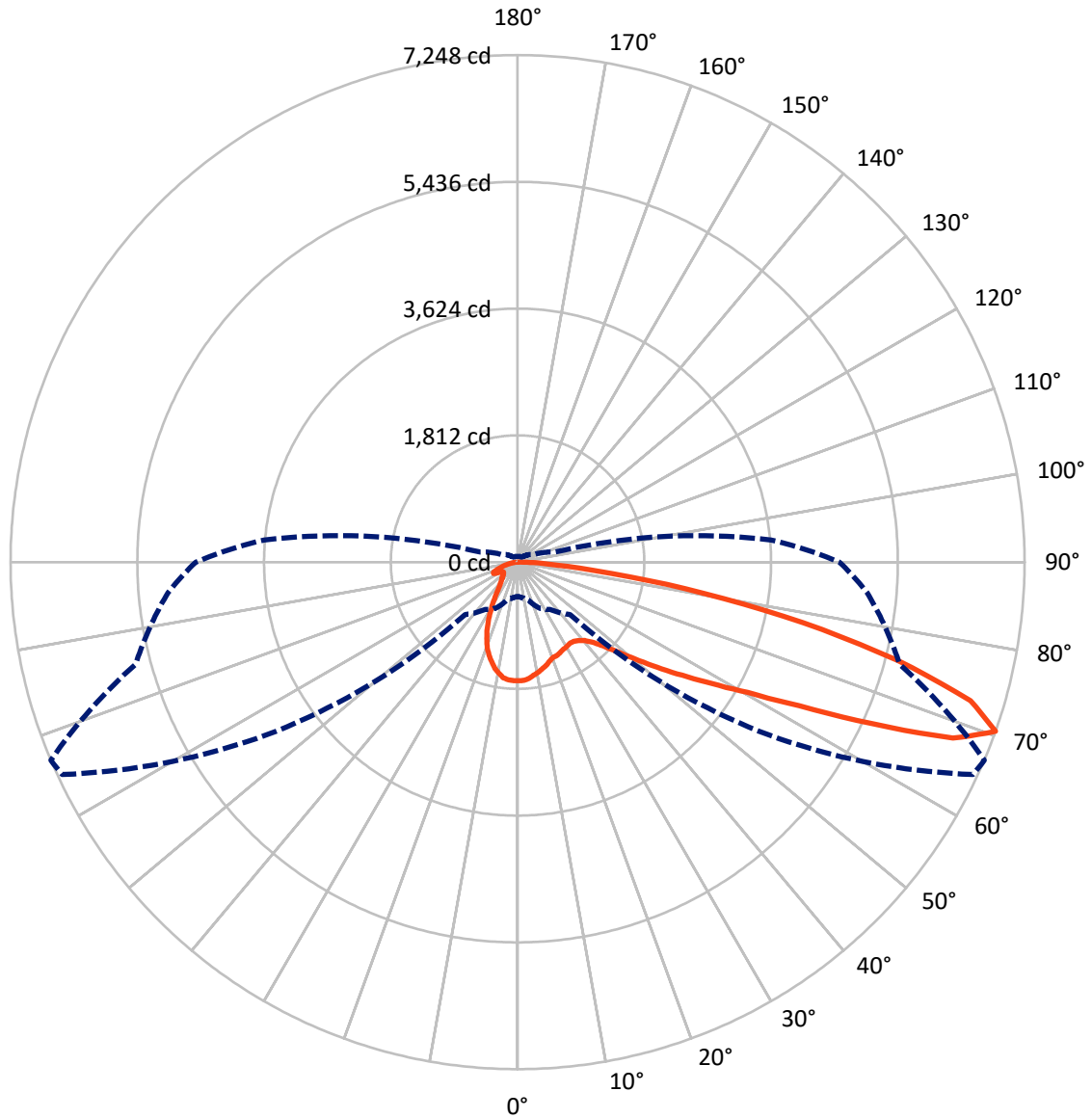
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 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	1424.5	0.0	1424.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	5889.8	0.0	5889.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	7314.3	0.0	7314.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	2.0
10°-20°	353.8	4.8
20°-30°	477.8	6.5
30°-40°	639.4	8.7
40°-50°	940.2	12.9
50°-60°	1465.5	20.0
60°-70°	1805.3	24.7
70°-80°	1275.6	17.4
80°-90°	209.1	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°	7314.3	100.0
0°-180°	7314.3	100.0

Coefficient of Utilization

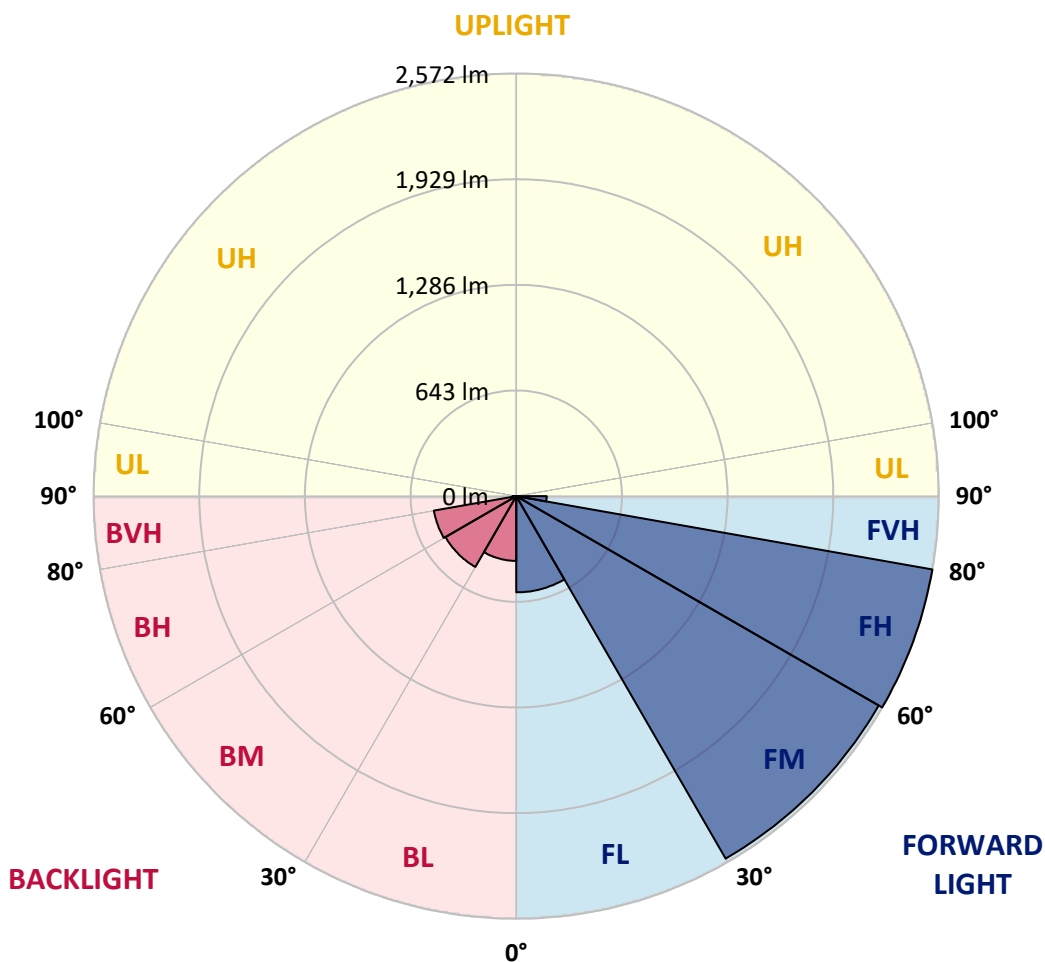


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	585.5	8.0			
FM (30°-60°)	2547.4	34.8			
FH (60°-80°)	2572.0	35.2			G2/5000
FVH (80°-90°)	185.0	2.5			G2/225
BL (0°-30°)	393.9	5.4	B1/500		
BM (30°-60°)	497.6	6.8	B1/1000		
BH (60°-80°)	508.9	7.0	B2/1000		G2/1000
BVH (80°-90°)	24.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2
2.5°	1576.6	1594.5	1600.9	1610.6	1635.8	1654.4	1665.7	1678.7	1694.1	1707.0	1715.1
5°	1466.5	1476.2	1491.6	1502.1	1533.7	1583.9	1617.9	1673.0	1671.4	1691.6	1722.4
7.5°	1359.6	1369.3	1376.6	1397.7	1443.0	1488.4	1550.7	1639.8	1633.3	1680.3	1728.1
10°	1293.2	1285.9	1288.4	1324.0	1359.6	1410.6	1489.2	1579.9	1603.4	1676.2	1744.3
12.5°	1230.9	1222.8	1242.2	1264.9	1308.6	1354.8	1448.7	1530.5	1566.1	1661.7	1751.6
15°	1192.0	1186.3	1210.6	1220.3	1272.2	1327.2	1393.6	1493.2	1532.1	1643.8	1740.2
17.5°	1170.1	1175.0	1183.9	1204.9	1238.2	1285.1	1358.0	1468.1	1485.1	1622.0	1737.8
20°	1174.2	1179.8	1180.7	1189.6	1212.2	1248.7	1323.2	1441.4	1452.7	1617.9	1744.3
22.5°	1206.6	1198.5	1201.7	1196.0	1202.5	1230.9	1296.5	1405.8	1449.5	1583.9	1730.5
25°	1255.2	1243.8	1242.2	1222.8	1210.6	1218.7	1291.6	1396.9	1425.2	1573.4	1729.7
27.5°	1341.0	1324.0	1324.0	1294.8	1245.4	1232.5	1277.8	1382.3	1407.4	1563.7	1711.1
30°	1423.6	1423.6	1424.4	1383.1	1328.0	1264.1	1283.5	1376.6	1392.8	1534.5	1686.0
32.5°	1524.0	1521.6	1517.5	1497.3	1412.3	1316.7	1311.0	1369.3	1377.4	1524.8	1678.7
35°	1622.0	1615.5	1647.1	1629.3	1542.6	1419.5	1339.4	1372.6	1390.4	1510.2	1656.0
37.5°	1695.7	1699.7	1765.3	1776.7	1702.2	1536.1	1419.5	1405.0	1422.0	1531.3	1656.0
40°	1791.2	1807.4	1869.0	1907.0	1861.7	1690.0	1546.7	1459.2	1471.4	1578.3	1691.6
42.5°	1916.7	1930.5	2009.1	2058.5	2045.5	1886.0	1672.2	1572.6	1562.9	1656.8	1745.1
45°	2082.7	2085.2	2164.5	2232.6	2259.3	2090.8	1871.4	1715.9	1707.8	1792.0	1843.1
47.5°	2280.3	2277.9	2327.3	2400.2	2472.3	2335.4	2100.6	1933.8	1904.6	1985.6	2005.8
50°	2471.4	2460.9	2472.3	2565.4	2703.8	2641.5	2379.1	2200.2	2171.0	2215.6	2250.4
52.5°	2576.7	2589.7	2558.9	2682.0	2950.0	3003.5	2748.4	2518.4	2493.3	2515.2	2575.9
55°	2503.0	2529.7	2509.5	2626.1	3057.7	3444.8	3226.2	2886.9	2854.5	2846.4	2946.0
57.5°	2189.6	2238.2	2242.3	2426.9	3020.5	3786.5	3898.3	3321.7	3273.1	3190.5	3293.4
60°	1681.1	1729.7	1766.9	1985.6	2701.4	3990.6	4677.3	3940.4	3780.0	3566.3	3627.8
62.5°	1178.2	1211.4	1248.7	1383.1	2082.7	3870.7	5351.0	4811.7	4516.1	3962.2	4039.2
65°	858.4	884.3	922.3	1001.7	1279.4	3202.7	5663.6	5846.6	5566.4	4465.9	4456.2
67.5°	646.2	662.4	712.6	839.7	886.7	1978.3	5339.7	6939.8	6713.1	5025.5	4791.5
70°	489.1	502.9	549.8	723.9	828.4	1060.8	4212.5	7183.5	7248.3	5653.1	5016.6
72.5°	336.9	352.3	404.9	603.3	788.7	841.4	2643.9	6526.0	6771.4	5911.4	4775.3
75°	206.5	217.0	247.8	457.5	783.1	822.7	1455.2	5347.8	5607.7	5462.0	4177.6
77.5°	145.8	145.0	150.6	268.0	678.6	827.6	897.2	3918.5	4171.2	4025.4	2835.0
80°	106.1	106.9	112.6	160.3	460.8	841.4	706.9	2624.5	2699.8	2098.9	1118.3
82.5°	64.0	67.2	81.0	108.5	276.9	759.6	653.5	1458.4	1364.5	673.7	307.7
85°	34.0	34.0	47.8	68.8	147.4	566.8	629.2	694.0	581.4	208.9	114.2
87.5°	8.1	8.1	13.8	27.5	59.1	271.3	429.2	276.1	221.1	70.5	47.0
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°	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2
2.5°	1711.9	1702.2	1714.3	1690.0	1670.6	1671.4	1641.4	1639.8	1635.8	1614.7	1622.0
5°	1731.3	1723.2	1709.4	1682.7	1639.8	1596.9	1571.0	1537.8	1524.0	1516.7	1520.0
7.5°	1749.9	1735.4	1695.7	1658.4	1592.0	1511.0	1464.1	1419.5	1362.9	1356.4	1345.0
10°	1754.8	1724.0	1673.0	1593.6	1505.4	1415.5	1308.6	1226.0	1182.3	1148.3	1135.3
12.5°	1747.5	1734.5	1636.6	1534.5	1400.9	1260.0	1135.3	1018.7	937.7	895.6	884.3
15°	1746.7	1724.0	1596.1	1444.6	1273.8	1090.0	912.6	772.5	687.5	652.7	652.7
17.5°	1747.5	1693.2	1548.3	1353.9	1124.0	875.4	680.2	565.2	518.3	513.4	517.4
20°	1731.3	1670.6	1498.1	1247.1	936.1	657.5	494.0	447.0	447.0	453.5	455.9
22.5°	1716.7	1636.6	1418.7	1115.1	745.0	476.1	401.6	387.9	403.3	414.6	419.5
25°	1696.5	1608.2	1337.8	978.2	566.8	383.8	349.0	352.3	366.8	387.1	385.5
27.5°	1667.3	1558.8	1241.4	819.5	421.9	331.2	322.3	323.9	339.3	348.2	346.6
30°	1634.1	1508.6	1152.3	661.6	334.4	303.7	302.9	306.9	309.3	314.2	313.4
32.5°	1592.0	1442.2	1057.6	514.2	301.2	288.3	285.0	282.6	285.0	284.2	281.8
35°	1562.1	1406.6	961.2	391.9	282.6	274.5	272.1	268.0	264.8	259.9	259.1
37.5°	1554.0	1371.0	860.0	319.9	268.0	264.0	255.9	248.6	244.6	242.1	240.5
40°	1549.1	1347.5	761.2	281.0	255.9	251.8	242.1	232.4	228.4	225.9	226.7
42.5°	1566.1	1334.5	660.8	261.6	245.4	238.1	227.5	216.2	215.4	213.8	216.2
45°	1626.0	1350.7	567.7	247.8	234.8	222.7	208.9	203.3	202.4	200.8	202.4
47.5°	1762.1	1391.2	488.3	238.9	223.5	213.0	198.4	190.3	189.5	188.7	188.7
50°	1949.9	1515.9	421.9	228.4	216.2	201.6	187.9	179.0	177.3	174.1	174.1
52.5°	2244.7	1725.6	382.2	222.7	203.3	191.1	176.5	166.8	162.8	159.5	159.5
55°	2576.7	1985.6	374.9	213.0	189.5	178.2	165.2	155.5	151.4	147.4	145.8
57.5°	2954.9	2329.7	426.8	206.5	179.8	165.2	150.6	141.7	138.5	134.4	132.8
60°	3307.1	2673.1	587.9	196.8	170.9	153.0	138.5	129.6	125.5	121.5	121.5
62.5°	3714.5	3098.2	860.8	196.8	162.8	140.1	125.5	119.0	116.6	112.6	111.7
65°	4196.3	3537.9	1060.0	208.9	160.3	128.8	113.4	106.9	104.5	102.0	101.2
67.5°	4563.1	3790.6	911.8	241.3	170.9	119.0	101.2	97.2	95.6	93.1	91.5
70°	4602.0	3636.7	549.8	260.7	181.4	109.3	90.7	86.6	86.6	84.2	82.6
72.5°	4253.0	3227.0	370.1	232.4	164.4	98.0	80.2	76.9	75.3	73.7	72.9
75°	3559.0	2737.1	292.3	185.4	126.3	81.0	69.6	66.4	64.0	63.2	61.5
77.5°	2390.5	1779.1	216.2	145.0	93.1	65.6	58.3	55.1	52.6	51.8	49.4
80°	918.3	677.8	139.3	105.3	65.6	51.8	46.2	42.9	41.3	38.9	37.2
82.5°	270.5	219.4	77.7	64.8	42.1	35.6	33.2	30.8	28.3	25.9	25.1
85°	111.7	100.4	47.8	34.0	25.9	21.1	19.4	17.0	14.6	13.0	11.3
87.5°	51.8	42.9	21.9	13.0	8.9	4.9	2.4	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)