

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: P480218

Luminaire Tested: **IFLD-S-SA2A-827-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480218  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-827-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

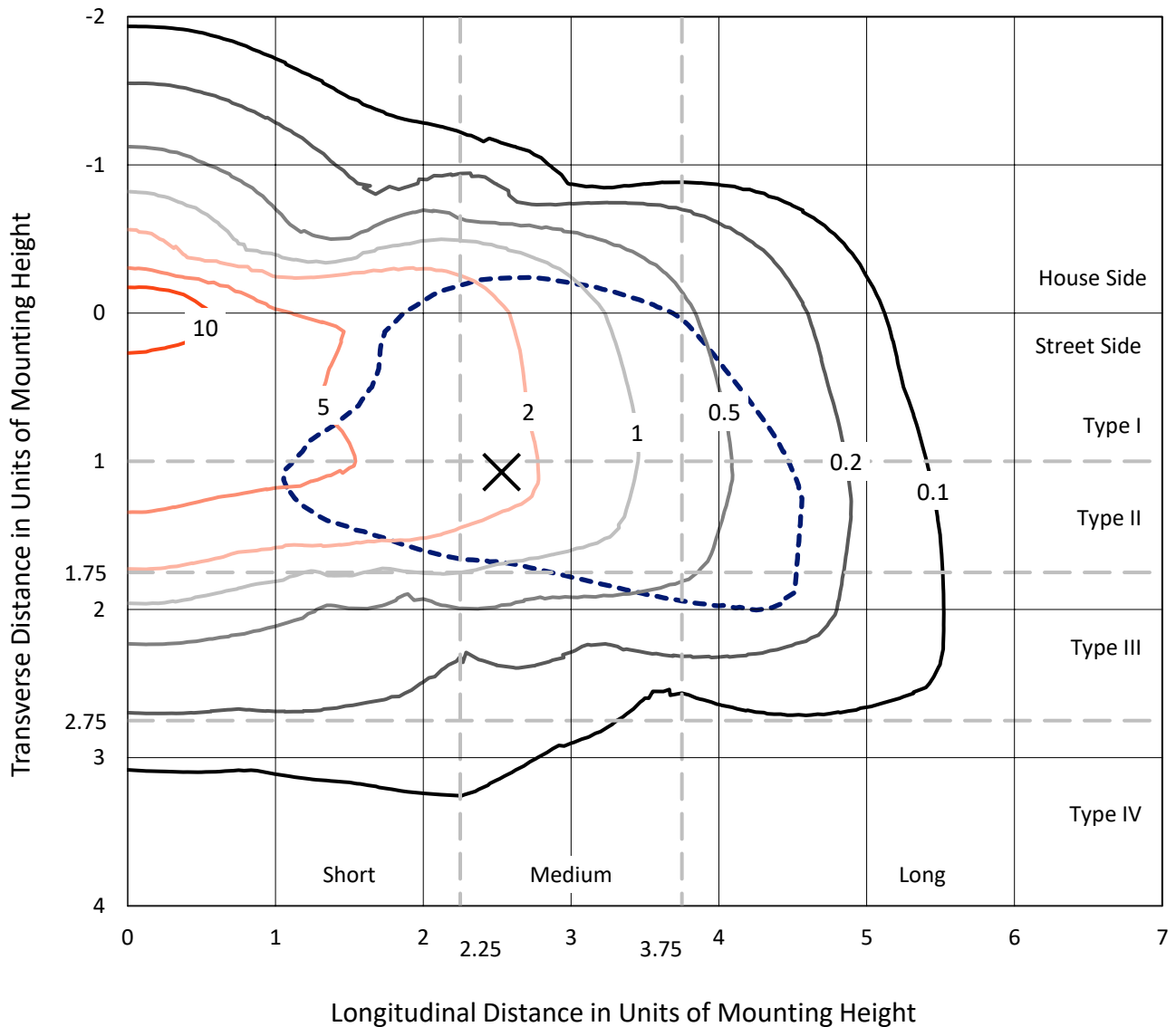
Lumens per Lamp: N/A  
Luminaire Lumens: 6766.6 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

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

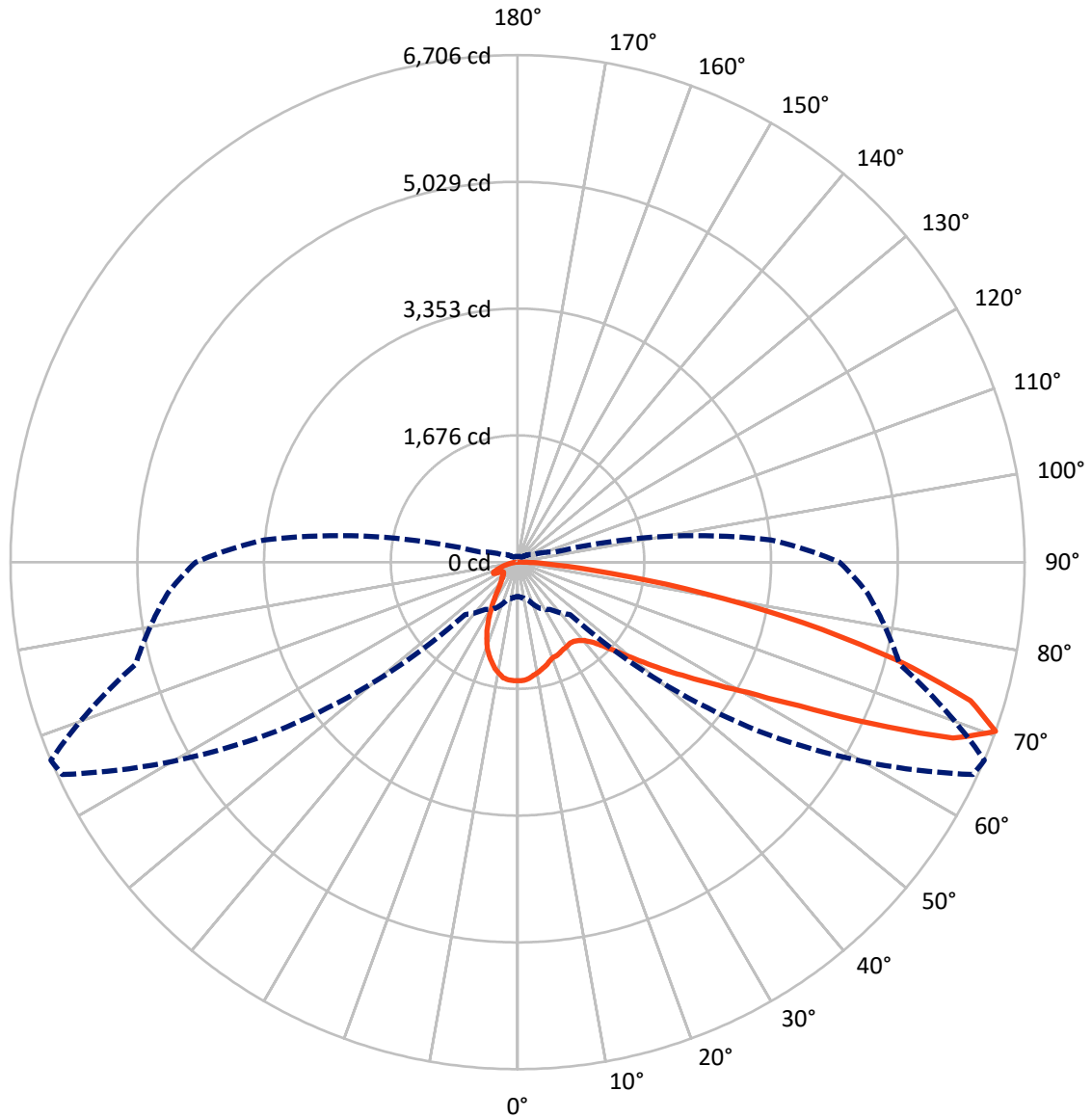
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	1317.9	0.0	1317.9
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	5448.8	0.0	5448.8
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	6766.6	0.0	6766.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.7	2.0
10°-20°	327.3	4.8
20°-30°	442.0	6.5
30°-40°	591.5	8.7
40°-50°	869.8	12.9
50°-60°	1355.8	20.0
60°-70°	1670.1	24.7
70°-80°	1180.1	17.4
80°-90°	193.4	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°	6766.6	100.0
0°-180°	6766.6	100.0

**Coefficient of Utilization**

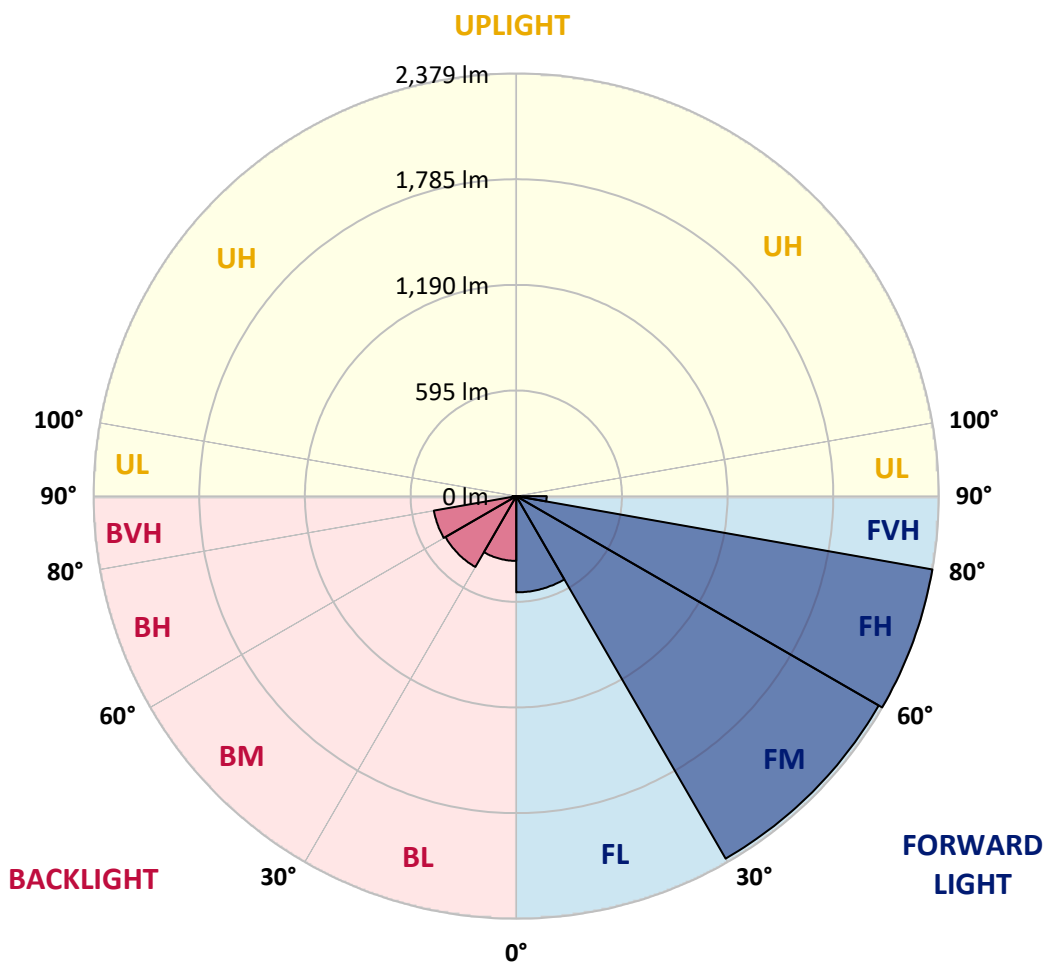


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	541.6	8.0			
FM (30°-60°)	2356.7	34.8			
FH (60°-80°)	2379.4	35.2			G2/5000
FVH (80°-90°)	171.1	2.5			G2/225
BL (0°-30°)	364.4	5.4	B1/500		
BM (30°-60°)	460.4	6.8	B1/1000		
BH (60°-80°)	470.8	7.0	B1/500		G1/500
BVH (80°-90°)	22.3	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°	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5
2.5°	1458.6	1475.1	1481.1	1490.0	1513.3	1530.5	1541.0	1553.0	1567.2	1579.2	1586.7
5°	1356.7	1365.7	1379.9	1389.7	1418.9	1465.3	1496.8	1547.7	1546.2	1565.0	1593.4
7.5°	1257.8	1266.8	1273.5	1293.0	1335.0	1376.9	1434.6	1517.0	1511.0	1554.5	1598.7
10°	1196.4	1189.6	1191.9	1224.8	1257.8	1305.0	1377.7	1461.6	1483.3	1550.7	1613.7
12.5°	1138.7	1131.2	1149.2	1170.2	1210.6	1253.3	1340.2	1415.9	1448.8	1537.2	1620.4
15°	1102.7	1097.5	1120.0	1129.0	1176.9	1227.8	1289.3	1381.4	1417.4	1520.8	1609.9
17.5°	1082.5	1087.0	1095.2	1114.7	1145.4	1188.9	1256.3	1358.2	1373.9	1500.5	1607.7
20°	1086.3	1091.5	1092.2	1100.5	1121.5	1155.2	1224.1	1333.5	1344.0	1496.8	1613.7
22.5°	1116.2	1108.7	1111.7	1106.5	1112.5	1138.7	1199.4	1300.5	1341.0	1465.3	1600.9
25°	1161.2	1150.7	1149.2	1131.2	1120.0	1127.5	1194.9	1292.3	1318.5	1455.6	1600.2
27.5°	1240.6	1224.8	1224.8	1197.9	1152.2	1140.2	1182.1	1278.8	1302.0	1446.6	1582.9
30°	1317.0	1317.0	1317.7	1279.5	1228.6	1169.4	1187.4	1273.5	1288.5	1419.6	1559.7
32.5°	1409.9	1407.6	1403.9	1385.2	1306.5	1218.1	1212.9	1266.8	1274.3	1410.6	1553.0
35°	1500.5	1494.5	1523.8	1507.3	1427.1	1313.2	1239.1	1269.8	1286.3	1397.1	1532.0
37.5°	1568.7	1572.4	1633.1	1643.6	1574.7	1421.1	1313.2	1299.8	1315.5	1416.6	1532.0
40°	1657.1	1672.1	1729.0	1764.2	1722.3	1563.5	1430.9	1350.0	1361.2	1460.1	1565.0
42.5°	1773.2	1786.0	1858.6	1904.3	1892.3	1744.8	1547.0	1454.8	1445.8	1532.7	1614.4
45°	1926.8	1929.0	2002.5	2065.4	2090.1	1934.3	1731.3	1587.4	1579.9	1657.9	1705.0
47.5°	2109.6	2107.3	2153.0	2220.5	2287.1	2160.5	1943.3	1789.0	1762.0	1836.9	1855.6
50°	2286.4	2276.6	2287.1	2373.3	2501.4	2443.7	2201.0	2035.4	2008.4	2049.7	2081.9
52.5°	2383.8	2395.8	2367.3	2481.2	2729.1	2778.6	2542.6	2329.8	2306.6	2326.8	2383.0
55°	2315.6	2340.3	2321.6	2429.5	2828.8	3186.8	2984.6	2670.7	2640.7	2633.2	2725.4
57.5°	2025.7	2070.6	2074.4	2245.2	2794.3	3503.0	3606.4	3073.0	3028.0	2951.6	3046.8
60°	1555.2	1600.2	1634.6	1836.9	2499.1	3691.8	4327.0	3645.3	3497.0	3299.2	3356.2
62.5°	1090.0	1120.7	1155.2	1279.5	1926.8	3580.9	4950.3	4451.4	4178.0	3665.5	3736.7
65°	794.1	818.1	853.3	926.7	1183.6	2962.9	5239.5	5408.8	5149.6	4131.5	4122.5
67.5°	597.8	612.8	659.2	776.9	820.3	1830.2	4939.8	6420.1	6210.4	4649.2	4432.7
70°	452.5	465.2	508.7	669.7	766.4	981.4	3897.0	6645.6	6705.6	5229.8	4640.9
72.5°	311.6	325.9	374.6	558.1	729.7	778.4	2445.9	6037.3	6264.3	5468.7	4417.7
75°	191.0	200.8	229.2	423.3	724.4	761.1	1346.2	4947.3	5187.8	5053.0	3864.8
77.5°	134.8	134.1	139.3	248.0	627.8	765.6	830.0	3625.1	3858.8	3724.0	2622.7
80°	98.1	98.9	104.1	148.3	426.3	778.4	654.0	2428.0	2497.6	1941.8	1034.6
82.5°	59.2	62.2	74.9	100.4	256.2	702.7	604.6	1349.2	1262.3	623.3	284.7
85°	31.5	31.5	44.2	63.7	136.3	524.4	582.1	642.0	537.9	193.3	105.6
87.5°	7.5	7.5	12.7	25.5	54.7	251.0	397.0	255.5	204.5	65.2	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°	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5
2.5°	1583.7	1574.7	1585.9	1563.5	1545.5	1546.2	1518.5	1517.0	1513.3	1493.8	1500.5
5°	1601.7	1594.2	1581.4	1556.7	1517.0	1477.3	1453.3	1422.6	1409.9	1403.1	1406.1
7.5°	1618.9	1605.4	1568.7	1534.2	1472.8	1397.9	1354.4	1313.2	1260.8	1254.8	1244.3
10°	1623.4	1594.9	1547.7	1474.3	1392.7	1309.5	1210.6	1134.2	1093.7	1062.3	1050.3
12.5°	1616.6	1604.7	1514.0	1419.6	1296.0	1165.7	1050.3	942.4	867.5	828.6	818.1
15°	1615.9	1594.9	1476.6	1336.5	1178.4	1008.3	844.3	714.7	636.0	603.8	603.8
17.5°	1616.6	1566.5	1432.4	1252.6	1039.8	809.8	629.3	522.9	479.5	475.0	478.7
20°	1601.7	1545.5	1385.9	1153.7	866.0	608.3	457.0	413.5	413.5	419.5	421.8
22.5°	1588.2	1514.0	1312.5	1031.6	689.2	440.5	371.6	358.8	373.1	383.6	388.1
25°	1569.5	1487.8	1237.6	905.0	524.4	355.1	322.9	325.9	339.4	358.1	356.6
27.5°	1542.5	1442.1	1148.4	758.1	390.3	306.4	298.2	299.7	313.9	322.1	320.6
30°	1511.8	1395.7	1066.0	612.0	309.4	280.9	280.2	283.9	286.2	290.7	289.9
32.5°	1472.8	1334.2	978.4	475.7	278.7	266.7	263.7	261.5	263.7	262.9	260.7
35°	1445.1	1301.3	889.2	362.6	261.5	254.0	251.7	248.0	245.0	240.5	239.7
37.5°	1437.6	1268.3	795.6	295.9	248.0	244.2	236.7	230.0	226.2	224.0	222.5
40°	1433.1	1246.6	704.2	260.0	236.7	233.0	224.0	215.0	211.3	209.0	209.8
42.5°	1448.8	1234.6	611.3	242.0	227.0	220.2	210.5	200.0	199.3	197.8	200.0
45°	1504.3	1249.6	525.1	229.2	217.3	206.0	193.3	188.0	187.3	185.8	187.3
47.5°	1630.1	1287.0	451.7	221.0	206.8	197.0	183.5	176.0	175.3	174.5	174.5
50°	1803.9	1402.4	390.3	211.3	200.0	186.5	173.8	165.6	164.1	161.1	161.1
52.5°	2076.6	1596.4	353.6	206.0	188.0	176.8	163.3	154.3	150.6	147.6	147.6
55°	2383.8	1836.9	346.9	197.0	175.3	164.8	152.8	143.8	140.1	136.3	134.8
57.5°	2733.6	2155.3	394.8	191.0	166.3	152.8	139.3	131.1	128.1	124.4	122.9
60°	3059.5	2472.9	543.9	182.0	158.1	141.6	128.1	119.9	116.1	112.4	112.4
62.5°	3436.3	2866.2	796.3	182.0	150.6	129.6	116.1	110.1	107.9	104.1	103.4
65°	3882.1	3273.0	980.6	193.3	148.3	119.1	104.9	98.9	96.6	94.4	93.6
67.5°	4221.4	3506.7	843.5	223.2	158.1	110.1	93.6	89.9	88.4	86.2	84.7
70°	4257.4	3364.4	508.7	241.2	167.8	101.1	83.9	80.2	80.2	77.9	76.4
72.5°	3934.5	2985.3	342.4	215.0	152.1	90.6	74.2	71.2	69.7	68.2	67.4
75°	3292.5	2532.1	270.4	171.6	116.9	74.9	64.4	61.4	59.2	58.4	56.9
77.5°	2211.5	1645.9	200.0	134.1	86.2	60.7	53.9	50.9	48.7	47.9	45.7
80°	849.5	627.0	128.9	97.4	60.7	47.9	42.7	39.7	38.2	36.0	34.5
82.5°	250.2	203.0	71.9	59.9	39.0	33.0	30.7	28.5	26.2	24.0	23.2
85°	103.4	92.9	44.2	31.5	24.0	19.5	18.0	15.7	13.5	12.0	10.5
87.5°	47.9	39.7	20.2	12.0	8.2	4.5	2.2	0.7	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)