

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: P480998

Luminaire Tested: **IFLD-S-SA2A-827-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480998  
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-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

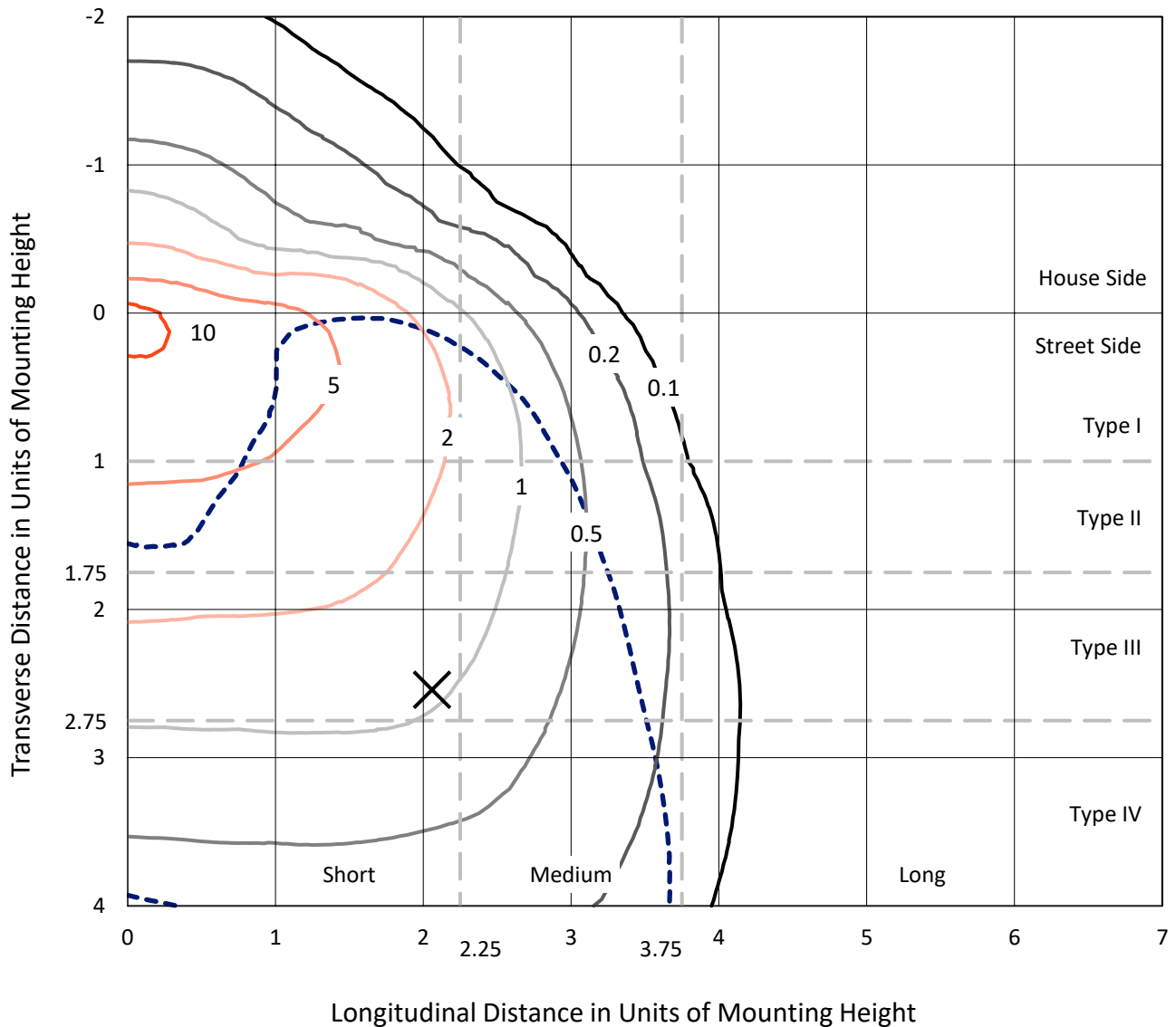
Lumens per Lamp: N/A  
Luminaire Lumens: 6564.5 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

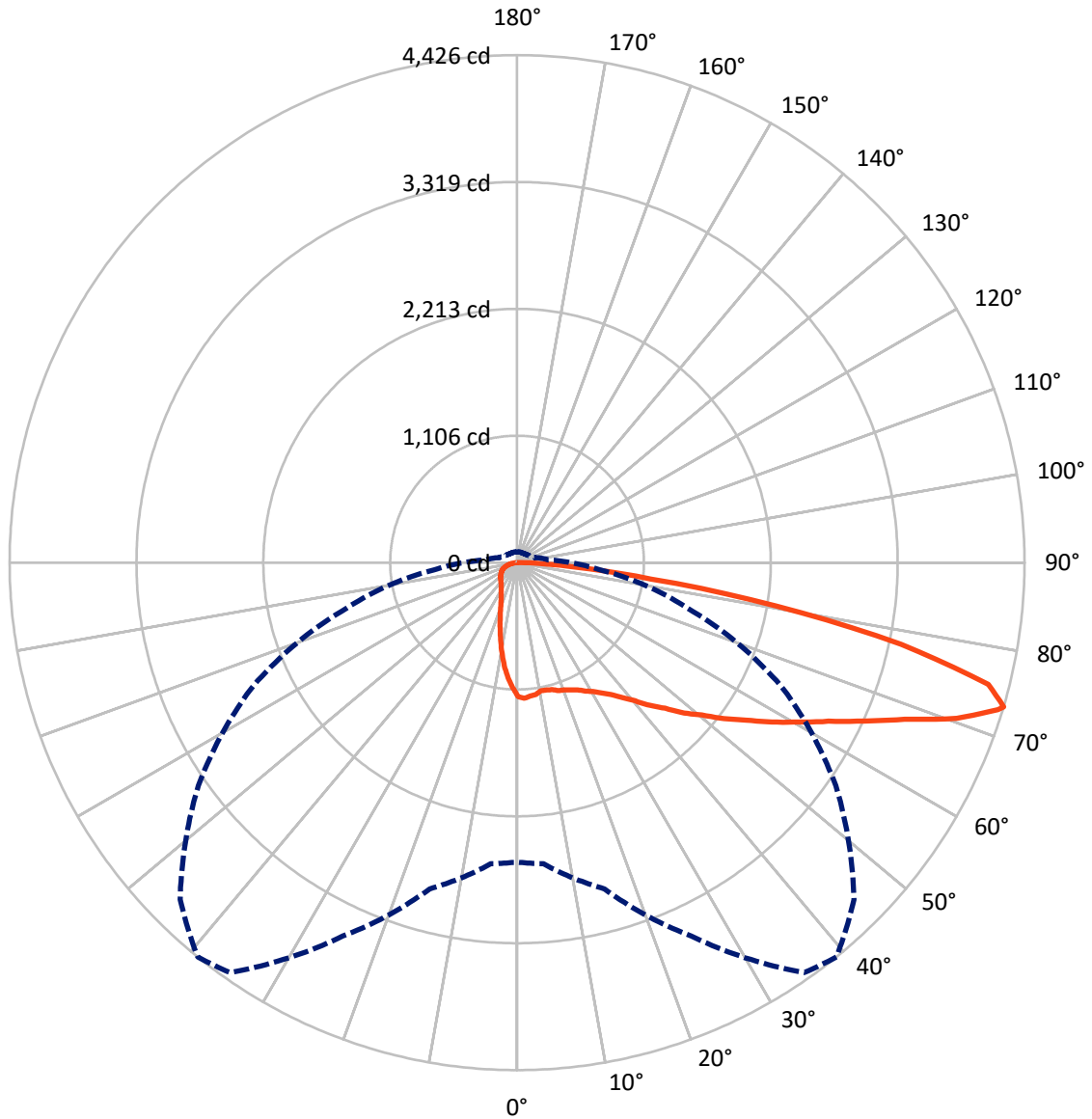
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	922.8	0.0	922.8
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	5641.8	0.0	5641.8
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	6564.5	0.0	6564.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.4	1.5
10°-20°	257.9	3.9
20°-30°	394.0	6.0
30°-40°	574.5	8.8
40°-50°	868.2	13.2
50°-60°	1257.2	19.2
60°-70°	1597.3	24.3
70°-80°	1294.9	19.7
80°-90°	219.1	3.3
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°	6564.5	100.0
0°-180°	6564.5	100.0

**Coefficient of Utilization**

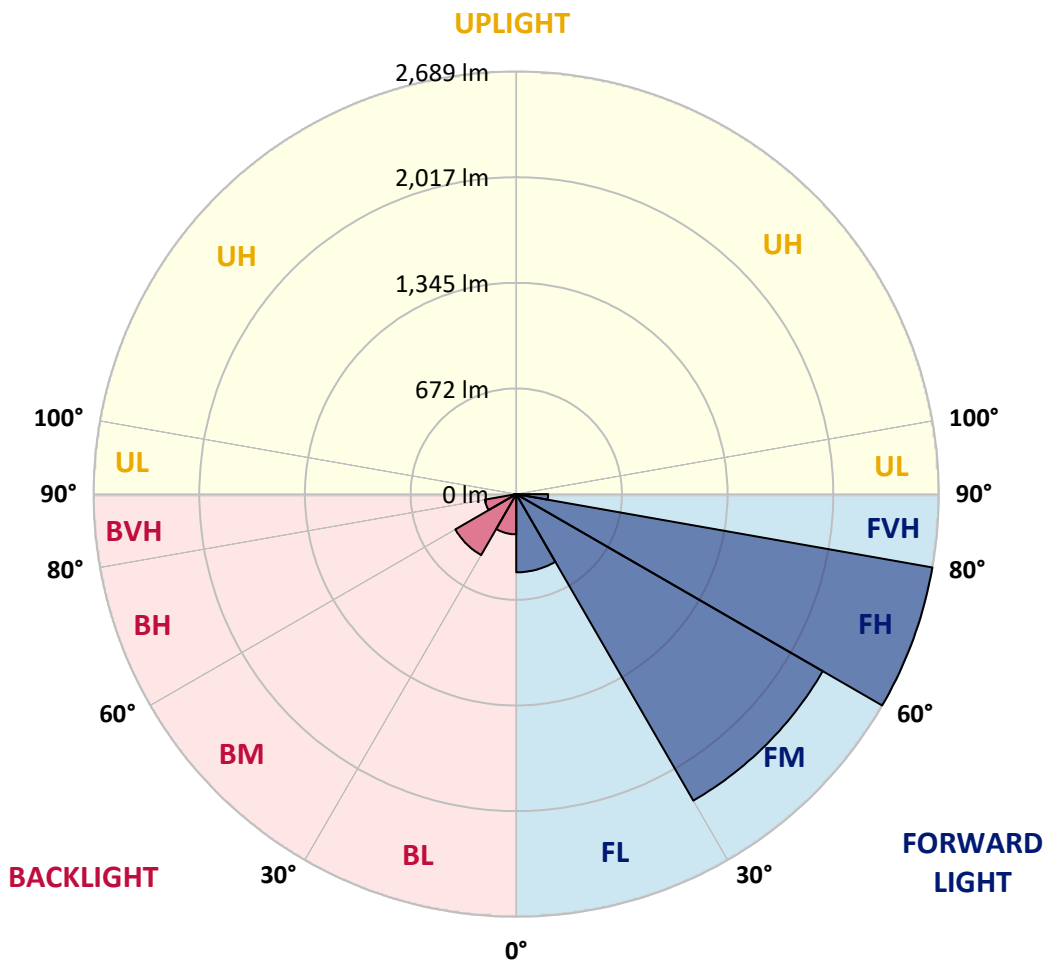


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	497.4	7.6			
FM (30°-60°)	2252.1	34.3			
FH (60°-80°)	2689.2	41.0			G2/5000
FVH (80°-90°)	203.0	3.1			G2/225
BL (0°-30°)	255.9	3.9	B1/500		
BM (30°-60°)	447.9	6.8	B1/1000		
BH (60°-80°)	203.0	3.1	B1/500		G1/500
BVH (80°-90°)	16.1	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5
2.5°	1196.4	1184.0	1186.2	1181.7	1186.2	1184.7	1182.5	1171.5	1182.5	1171.5	1168.5
5°	1180.3	1180.3	1187.6	1176.6	1178.1	1170.7	1178.1	1170.0	1162.7	1144.3	1139.2
7.5°	1175.1	1174.4	1175.1	1159.7	1167.1	1162.7	1155.3	1146.5	1131.8	1120.1	1103.2
10°	1139.9	1147.2	1139.2	1143.6	1149.4	1136.2	1135.5	1133.3	1126.7	1111.2	1101.0
12.5°	1120.8	1133.3	1137.7	1134.0	1139.2	1140.6	1136.2	1133.3	1125.2	1114.9	1085.5
15°	1128.9	1114.2	1126.7	1150.9	1145.8	1149.4	1150.2	1147.2	1143.6	1124.5	1105.4
17.5°	1131.1	1122.3	1148.7	1153.8	1160.5	1173.7	1164.9	1164.1	1150.2	1136.9	1109.0
20°	1136.2	1132.5	1153.8	1181.0	1181.7	1184.0	1188.4	1177.3	1170.0	1147.2	1104.6
22.5°	1155.3	1167.8	1187.6	1199.4	1206.0	1207.5	1207.5	1185.4	1177.3	1159.0	1125.2
25°	1212.6	1199.4	1227.3	1241.2	1231.7	1229.5	1224.3	1204.5	1195.7	1179.5	1134.7
27.5°	1254.5	1253.7	1269.9	1289.0	1263.3	1268.4	1250.1	1244.2	1224.3	1215.5	1151.6
30°	1311.7	1327.9	1327.2	1333.0	1299.3	1305.1	1281.6	1270.6	1259.6	1264.7	1201.6
32.5°	1385.2	1379.3	1388.9	1384.5	1350.7	1355.8	1327.9	1311.0	1314.7	1330.1	1269.9
35°	1432.2	1426.3	1430.0	1430.0	1419.7	1413.8	1402.1	1380.1	1397.7	1426.3	1346.3
37.5°	1482.9	1490.2	1511.5	1507.1	1493.9	1493.9	1492.4	1477.0	1499.8	1570.3	1468.2
40°	1527.7	1547.5	1560.7	1569.5	1585.0	1585.0	1597.5	1588.6	1629.8	1742.9	1617.3
42.5°	1574.7	1575.4	1647.4	1654.0	1688.5	1703.2	1712.8	1720.1	1797.2	1923.6	1776.7
45°	1634.9	1638.6	1701.7	1752.4	1806.0	1811.2	1847.2	1871.4	1966.2	2121.1	1950.0
47.5°	1714.2	1709.8	1777.4	1858.2	1925.0	1960.3	2003.6	2030.1	2146.8	2335.6	2139.5
50°	1818.5	1805.3	1844.2	1971.3	2049.9	2088.8	2165.9	2210.0	2346.6	2540.5	2269.5
52.5°	1945.6	1923.6	1954.4	2093.2	2181.4	2259.9	2333.4	2382.6	2525.1	2699.1	2365.7
55°	2080.0	2034.5	2043.3	2222.5	2349.5	2423.7	2524.3	2575.8	2721.2	2841.6	2461.9
57.5°	2212.9	2184.3	2166.7	2346.6	2550.1	2621.3	2713.8	2780.7	2904.1	2968.0	2543.4
60°	2324.6	2317.2	2288.6	2539.0	2762.3	2823.3	2920.2	2961.4	3054.6	3084.7	2544.9
62.5°	2416.4	2391.4	2436.9	2694.0	2978.2	3047.3	3153.8	3157.5	3223.6	3157.5	2470.0
65°	2488.4	2489.8	2562.5	2881.3	3228.0	3330.1	3416.0	3406.4	3363.8	3114.1	2293.0
67.5°	2553.7	2581.6	2688.1	3086.9	3548.9	3645.1	3740.6	3614.3	3402.0	2911.4	1947.1
70°	2605.1	2633.0	2857.8	3337.4	3927.2	4068.2	4089.5	3696.5	3226.5	2466.3	1468.9
72.5°	2599.3	2649.9	2954.0	3537.2	4262.8	4384.7	4212.9	3465.2	2688.1	1719.4	857.1
73°	2611.7	2636.7	2945.9	3593.0	4364.9	4425.9	4155.6	3392.5	2535.4	1542.4	724.9
75°	2370.8	2455.3	2799.8	3501.9	4255.5	4244.5	3826.5	2826.9	1802.4	810.1	351.1
77.5°	1753.9	1807.5	2206.3	2879.8	3493.1	3422.6	2886.4	1806.8	855.6	300.4	189.5
80°	857.1	899.0	1169.3	1662.8	2284.2	2290.1	1791.4	940.1	366.5	169.7	129.3
82.5°	428.2	453.2	561.9	730.8	1123.7	1177.3	908.5	534.7	226.9	96.2	73.4
85°	279.8	297.5	345.9	357.7	476.7	503.1	423.1	417.2	147.6	52.1	59.5
87.5°	185.8	188.8	212.3	180.7	191.0	183.6	204.2	262.9	43.3	22.0	16.2
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°	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5	1168.5
2.5°	1164.9	1154.6	1143.6	1128.1	1117.1	1100.2	1084.8	1078.2	1076.7	1077.5	1070.1
5°	1134.7	1120.1	1098.0	1066.4	1048.1	1020.2	996.7	984.2	971.0	973.2	967.3
7.5°	1092.9	1076.7	1042.9	1006.2	960.7	921.0	899.0	868.1	850.5	837.3	844.6
10°	1079.7	1051.7	1001.1	950.4	879.9	827.7	777.1	741.8	717.6	694.1	704.3
12.5°	1073.0	1045.1	974.6	899.7	808.6	729.3	658.1	614.7	580.2	559.7	567.7
15°	1067.2	1032.7	949.7	843.9	741.8	637.5	557.5	500.2	467.1	447.3	449.5
17.5°	1075.3	1026.0	912.9	789.5	668.4	556.7	467.9	408.4	374.6	362.1	359.2
20°	1067.2	1018.7	876.9	735.2	594.9	479.6	394.4	345.2	321.7	311.4	309.2
22.5°	1070.1	1001.1	839.5	675.0	526.6	415.0	345.2	307.7	289.4	284.2	285.7
25°	1084.1	990.8	802.0	608.9	459.0	367.2	313.6	285.0	271.8	266.6	268.1
27.5°	1094.3	999.6	768.2	546.4	401.8	324.6	287.2	268.1	259.3	255.6	254.9
30°	1120.1	1004.7	735.2	490.6	354.7	296.7	268.8	253.4	247.5	245.3	244.6
32.5°	1158.2	1014.3	697.0	439.2	320.2	270.3	254.1	240.9	239.4	237.2	238.0
35°	1220.7	1047.3	654.4	395.1	287.2	252.7	238.7	229.9	229.9	229.9	232.1
37.5°	1310.3	1093.6	616.2	353.3	265.9	237.2	225.5	222.5	221.1	223.3	224.7
40°	1425.6	1149.4	585.4	320.2	247.5	226.9	216.7	215.2	214.5	213.7	215.2
42.5°	1551.9	1220.7	558.9	294.5	234.3	215.9	208.6	207.1	204.2	205.6	207.9
45°	1677.5	1308.8	535.4	274.0	225.5	210.1	199.8	199.0	197.6	196.8	200.5
47.5°	1817.1	1395.5	528.1	261.5	218.9	201.2	193.9	193.2	188.8	188.0	191.0
50°	1925.8	1459.4	536.2	255.6	209.3	194.6	189.5	185.8	182.1	178.5	178.5
52.5°	2000.7	1503.4	542.0	251.2	204.2	185.8	179.2	177.7	174.1	170.4	168.9
55°	2068.2	1529.9	543.5	251.9	199.0	175.5	171.1	170.4	168.2	162.3	160.8
57.5°	2091.0	1518.9	514.1	245.3	196.1	168.9	163.1	164.5	161.6	156.4	155.7
60°	2088.8	1442.5	447.3	236.5	189.5	161.6	154.2	158.6	158.6	152.8	152.0
62.5°	1961.7	1266.2	365.8	219.6	182.1	154.2	146.2	152.8	155.0	151.3	150.6
65°	1698.1	1031.2	305.5	202.7	171.1	146.2	138.1	145.4	149.1	147.6	146.9
67.5°	1405.0	788.8	254.1	180.7	157.2	135.1	128.5	133.7	135.9	136.6	137.3
70°	993.0	525.1	212.3	156.4	138.1	123.4	116.0	116.8	116.0	118.2	118.2
72.5°	539.8	302.6	172.6	132.9	119.0	107.2	102.1	98.4	98.4	97.7	97.7
73°	462.0	271.8	164.5	129.3	113.8	104.3	98.4	95.5	95.5	94.7	94.0
75°	259.3	199.0	141.0	110.9	98.4	91.1	86.7	82.3	81.5	81.5	81.5
77.5°	170.4	155.0	112.4	88.9	79.3	72.7	71.2	66.8	66.8	66.8	66.1
80°	127.8	121.9	86.7	67.6	61.0	55.8	54.4	51.4	50.7	47.7	48.5
82.5°	85.2	96.2	63.2	47.7	41.1	38.2	38.2	37.5	35.3	31.6	31.6
85°	67.6	78.6	45.5	29.4	24.2	20.6	21.3	20.6	19.8	16.2	15.4
87.5°	12.5	31.6	13.2	8.1	5.9	3.7	3.7	2.2	1.5	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)