

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: P476708

Luminaire Tested: **IFLD-S-SA2A-827-U-T2**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P476708
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-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

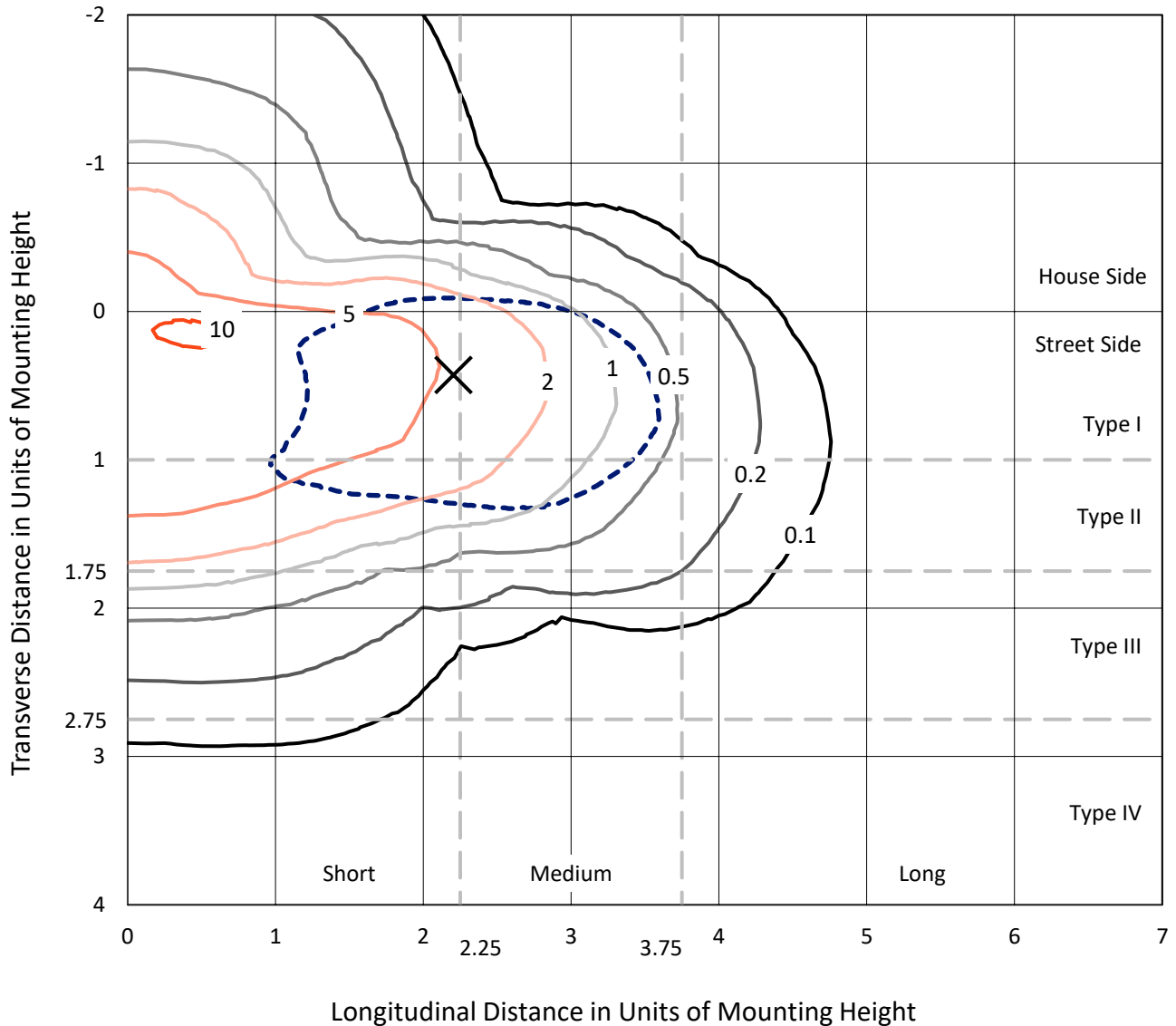
Lumens per Lamp: N/A
Luminaire Lumens: 6778.4 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

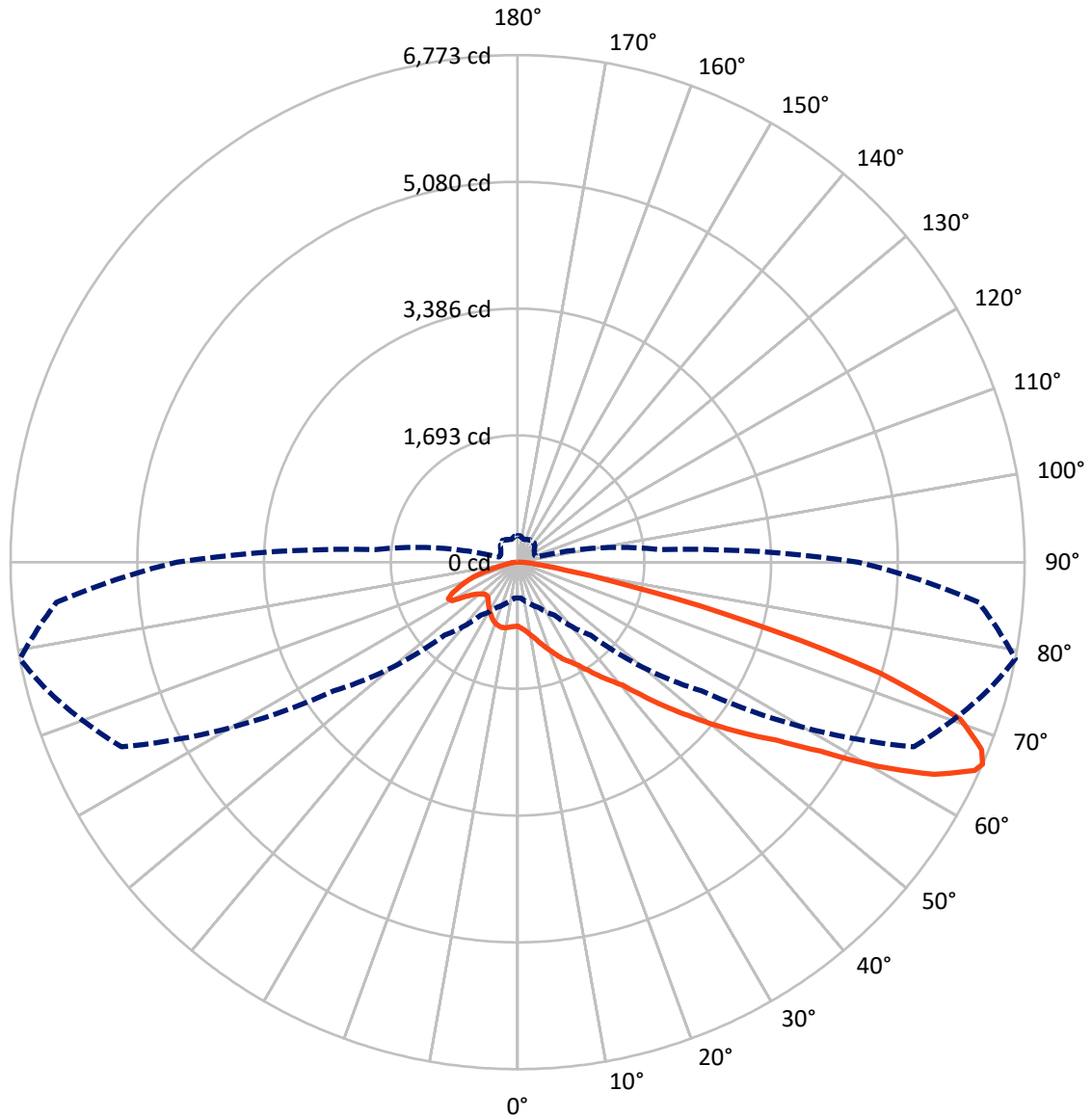
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1368.8	0.0	1368.8
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	5409.6	0.0	5409.6
	% Fixture	79.8	0.0	79.8
Total	Lumens	6778.4	0.0	6778.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	1.2
10°-20°	259.9	3.8
20°-30°	446.1	6.6
30°-40°	689.2	10.2
40°-50°	1103.8	16.3
50°-60°	1648.1	24.3
60°-70°	1693.4	25.0
70°-80°	750.7	11.1
80°-90°	103.0	1.5
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°	6778.4	100.0
0°-180°	6778.4	100.0

Coefficient of Utilization



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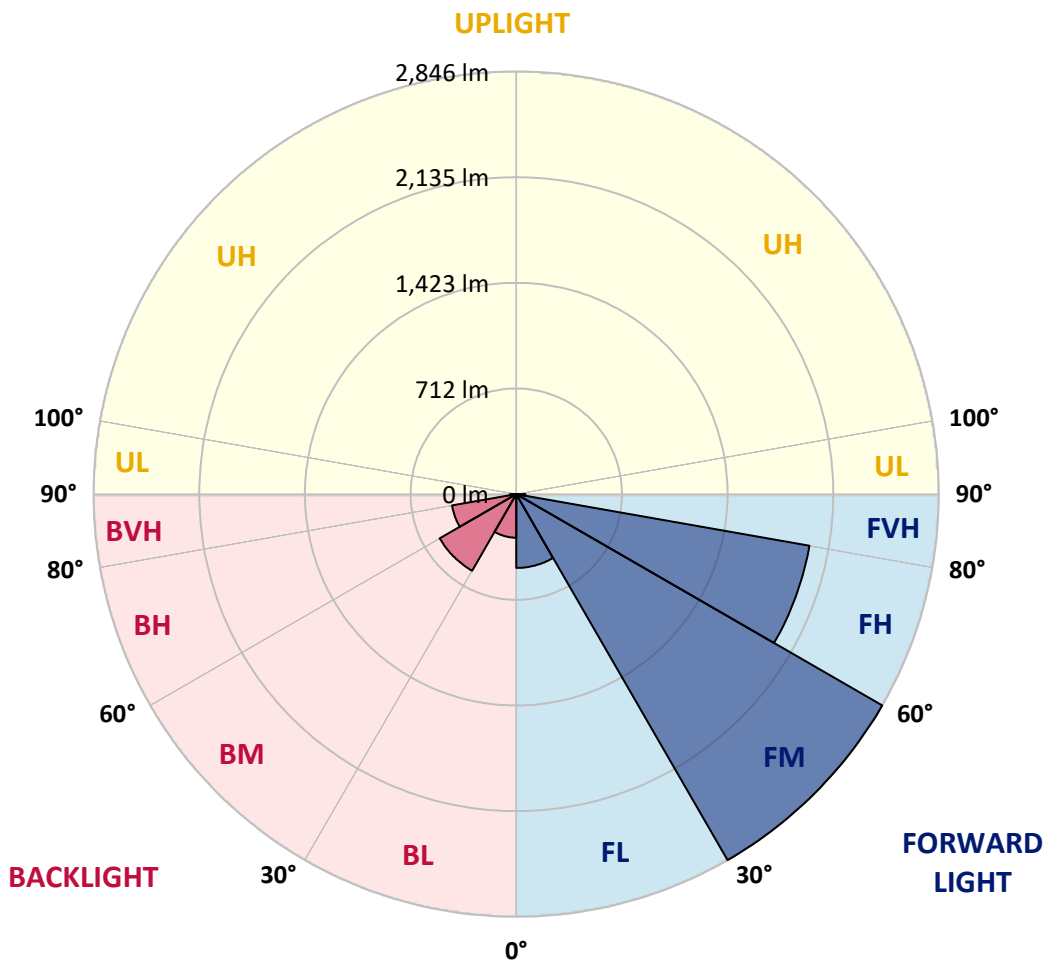
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.9	7.3			
FM (30°-60°)	2846.0	42.0			
FH (60°-80°)	2004.9	29.6			G2/5000
FVH (80°-90°)	61.8	0.9			G1/100
BL (0°-30°)	293.3	4.3	B1/500		
BM (30°-60°)	595.1	8.8	B1/1000		
BH (60°-80°)	439.2	6.5	B1/500		G1/500
BVH (80°-90°)	41.2	0.6			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	855.9	855.9	855.9	855.9	855.9	855.9	855.9	855.9	855.9	855.9	855.9
2.5°	910.4	911.1	911.1	908.1	908.9	911.1	902.9	885.0	885.0	882.0	876.8
5°	966.3	962.5	957.3	958.1	955.1	955.1	946.1	929.0	914.1	908.1	892.5
7.5°	973.7	977.5	976.7	985.7	990.1	990.1	994.6	980.4	958.1	943.9	928.2
10°	988.6	978.9	978.2	999.1	1005.8	1021.4	1039.3	1031.9	1013.2	993.1	972.2
12.5°	997.6	1003.6	1003.6	1014.0	1029.6	1052.8	1084.1	1098.2	1069.2	1048.3	1016.2
15°	1011.0	1002.8	1026.7	1035.6	1065.4	1081.8	1126.6	1163.1	1143.7	1118.4	1067.7
17.5°	1017.0	1011.8	1025.2	1041.6	1092.3	1116.9	1171.3	1222.0	1205.6	1189.2	1137.0
20°	1047.5	1046.8	1052.8	1066.2	1102.7	1151.2	1219.0	1289.1	1295.1	1265.2	1194.4
22.5°	1122.1	1112.4	1112.4	1107.2	1122.8	1172.8	1264.5	1361.4	1388.3	1353.2	1259.3
25°	1190.7	1204.1	1195.9	1172.1	1166.1	1192.2	1297.3	1438.2	1474.0	1441.2	1347.3
27.5°	1278.7	1283.1	1297.3	1265.2	1224.2	1232.4	1333.1	1481.5	1555.3	1511.3	1397.2
30°	1405.4	1397.2	1394.2	1358.4	1304.8	1293.6	1374.1	1544.8	1661.9	1600.0	1456.1
32.5°	1491.2	1511.3	1510.5	1461.3	1396.5	1371.9	1424.8	1604.5	1776.0	1718.6	1565.0
35°	1661.2	1682.0	1665.6	1593.3	1517.3	1468.0	1497.9	1682.0	1906.4	1861.7	1657.4
37.5°	1878.1	1927.3	1892.3	1758.8	1651.5	1597.8	1599.3	1766.3	2039.9	2003.4	1756.6
40°	2028.0	2094.3	2045.9	1920.6	1806.5	1755.8	1735.7	1866.2	2199.5	2160.7	1911.7
42.5°	2213.6	2268.8	2243.4	2119.7	1986.2	1943.0	1902.7	2033.2	2443.3	2425.4	2110.7
45°	2416.4	2442.5	2434.3	2356.0	2207.7	2192.8	2104.0	2253.1	2730.3	2737.8	2359.8
47.5°	2605.1	2619.2	2634.9	2578.2	2485.8	2498.4	2335.9	2488.7	3009.2	3058.4	2637.1
50°	2653.5	2702.0	2738.5	2776.5	2796.7	2882.4	2591.6	2778.0	3329.8	3425.2	2945.8
52.5°	2604.3	2600.6	2711.7	2831.0	3032.3	3212.0	2939.8	3137.4	3613.1	3801.7	3228.4
55°	2380.6	2373.2	2552.1	2710.2	3103.1	3395.4	3437.1	3616.1	3955.3	4200.6	3610.8
57.5°	1989.2	1943.0	2138.3	2397.8	2949.5	3415.5	3936.7	4326.6	4481.7	4761.3	4194.6
60°	1336.8	1317.4	1504.6	1814.0	2394.8	3129.9	4235.6	5216.1	5223.5	5538.2	5100.5
62.5°	823.1	826.8	946.9	1178.8	1676.8	2481.3	4106.7	5926.6	5928.1	6243.5	5846.1
65°	538.3	540.5	637.5	765.7	1047.5	1682.8	3396.1	5982.5	6418.0	6711.0	6187.6
66°	479.4	480.2	563.7	668.0	867.9	1377.1	2999.5	5837.1	6528.3	6772.8	6183.1
67.5°	404.1	413.8	480.9	561.4	677.0	989.4	2379.9	5416.6	6471.6	6686.4	6042.9
70°	316.1	321.3	374.3	456.3	507.7	572.6	1414.4	4415.3	5923.6	6271.8	5532.9
72.5°	253.5	258.0	298.2	370.6	412.3	377.3	770.2	3203.8	4679.3	5050.6	4351.9
75°	214.0	214.7	234.1	291.5	339.2	283.3	410.1	2056.3	3002.4	3175.4	2666.2
77.5°	173.0	176.0	189.4	222.2	272.9	222.9	244.6	1151.9	1507.6	1520.2	1232.4
80°	140.9	142.4	150.6	161.8	208.0	164.8	165.5	562.2	646.4	631.5	501.0
82.5°	111.1	112.6	122.3	120.0	152.8	117.8	102.9	270.6	297.5	291.5	230.4
85°	62.6	62.6	96.2	96.2	96.9	74.6	62.6	127.5	157.3	146.9	108.1
87.5°	20.1	20.9	29.1	30.6	48.5	33.6	30.6	47.7	74.6	65.6	38.8
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°	855.9	855.9	855.9	855.9	855.9	855.9	855.9	855.9	855.9	855.9	855.9
2.5°	873.8	861.9	856.7	839.5	835.0	823.9	818.6	811.9	809.7	800.0	809.0
5°	880.5	876.8	855.9	834.3	817.9	810.4	799.3	784.3	782.9	769.4	767.9
7.5°	908.9	896.2	859.7	836.5	803.7	785.1	760.5	753.0	743.3	738.9	748.6
10°	952.9	920.8	866.4	808.2	767.9	745.6	727.7	722.5	723.2	720.2	715.8
12.5°	984.2	953.6	855.2	784.3	732.2	710.5	709.0	714.3	722.5	718.7	724.0
15°	1028.9	971.5	847.0	744.8	703.1	697.1	696.4	712.0	711.3	711.3	710.5
17.5°	1070.7	989.4	817.2	710.5	672.5	677.0	682.2	681.5	688.9	691.9	697.1
20°	1123.6	1010.3	775.4	676.2	649.4	647.9	647.2	647.9	655.4	659.8	656.1
22.5°	1169.8	1014.7	740.4	643.4	621.8	615.8	606.2	615.8	612.1	613.6	618.1
25°	1210.1	1015.5	690.4	618.8	594.2	580.8	573.4	572.6	565.9	565.1	565.1
27.5°	1243.6	990.1	646.4	584.5	561.4	548.7	548.0	539.8	522.7	511.5	513.0
30°	1269.7	970.7	615.8	554.7	532.3	530.1	523.4	504.8	482.4	468.2	468.2
32.5°	1315.9	932.0	574.1	524.1	513.0	510.0	494.3	477.9	457.0	443.6	441.4
35°	1350.2	896.2	546.5	498.0	492.8	486.9	473.4	455.5	449.6	446.6	448.8
37.5°	1389.0	855.9	513.0	475.7	480.9	469.7	454.1	445.9	466.7	461.5	463.8
40°	1450.9	827.6	480.2	462.3	467.5	454.8	434.7	431.7	457.8	439.1	434.7
42.5°	1564.2	826.8	460.0	442.1	445.9	436.2	418.3	416.8	427.2	404.8	398.1
45°	1705.1	852.9	445.1	427.2	424.2	422.7	416.8	410.1	401.1	372.0	364.6
47.5°	1873.6	895.4	442.1	404.8	408.6	421.3	413.8	396.6	373.5	354.9	351.2
50°	2077.9	983.4	434.7	388.4	395.2	415.3	409.3	385.5	364.6	352.7	350.4
52.5°	2303.8	1094.5	425.0	363.1	378.0	410.1	413.1	390.7	360.1	349.7	348.2
55°	2570.0	1258.5	413.8	335.5	357.9	404.8	413.1	375.8	354.2	354.2	352.7
57.5°	3095.6	1553.8	390.7	310.2	340.0	395.2	401.1	376.5	354.9	354.9	351.9
60°	3866.6	2014.6	346.7	290.8	322.8	381.7	392.2	365.3	346.7	351.2	350.4
62.5°	4469.8	2154.7	309.4	272.1	305.7	357.1	380.2	353.4	337.0	353.4	354.9
65°	4598.7	2013.1	271.4	252.0	281.8	333.3	363.1	336.3	322.8	354.9	356.4
66°	4552.5	1902.7	258.0	246.0	271.4	321.3	352.7	330.3	315.4	353.4	354.2
67.5°	4346.7	1737.2	243.1	233.4	257.2	304.2	340.7	322.1	303.5	348.9	342.2
70°	3899.4	1473.3	217.7	211.0	237.1	275.9	313.1	301.2	284.8	321.3	309.4
72.5°	3003.2	1177.3	190.9	191.6	214.0	246.8	285.6	277.4	263.2	281.8	274.4
75°	1828.9	752.3	166.3	167.8	186.4	219.2	259.5	253.5	236.3	246.8	243.1
77.5°	810.4	372.8	140.2	143.2	158.1	193.1	225.9	216.2	198.3	200.6	199.1
80°	314.6	176.7	114.1	117.8	127.5	154.3	187.1	178.2	162.5	159.6	158.1
82.5°	151.4	98.4	88.0	89.5	93.2	123.0	161.0	149.9	129.0	115.6	115.6
85°	76.0	61.1	61.9	56.7	61.9	83.5	108.9	91.0	75.3	67.1	68.6
87.5°	30.6	30.6	30.6	26.1	27.6	39.5	50.7	34.3	31.3	18.6	18.6
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)