

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: P478074

Luminaire Tested: **IFLD-S-SA2B-730-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478074
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-730-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

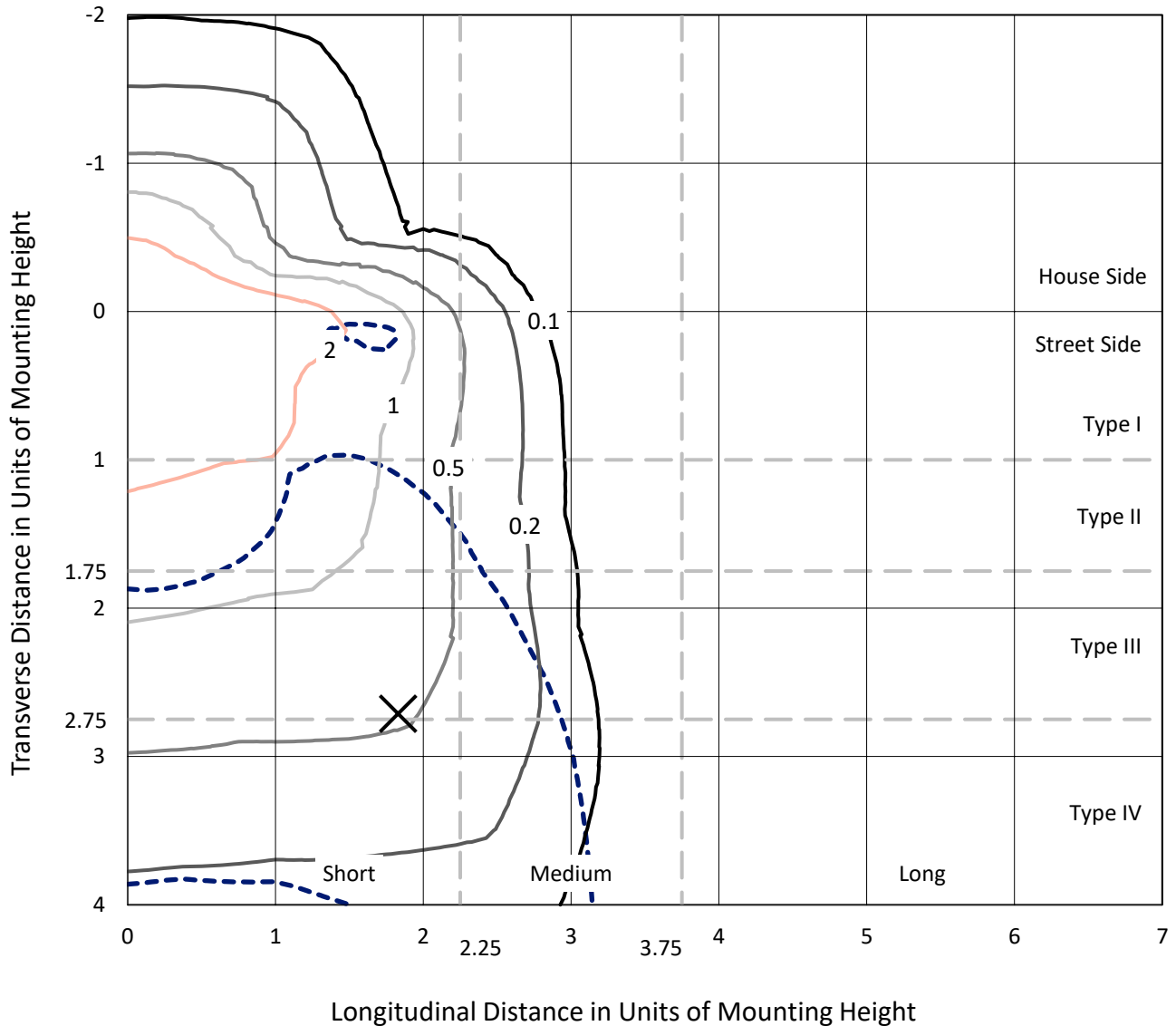
Lumens per Lamp: N/A
Luminaire Lumens: 10651.7 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4
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

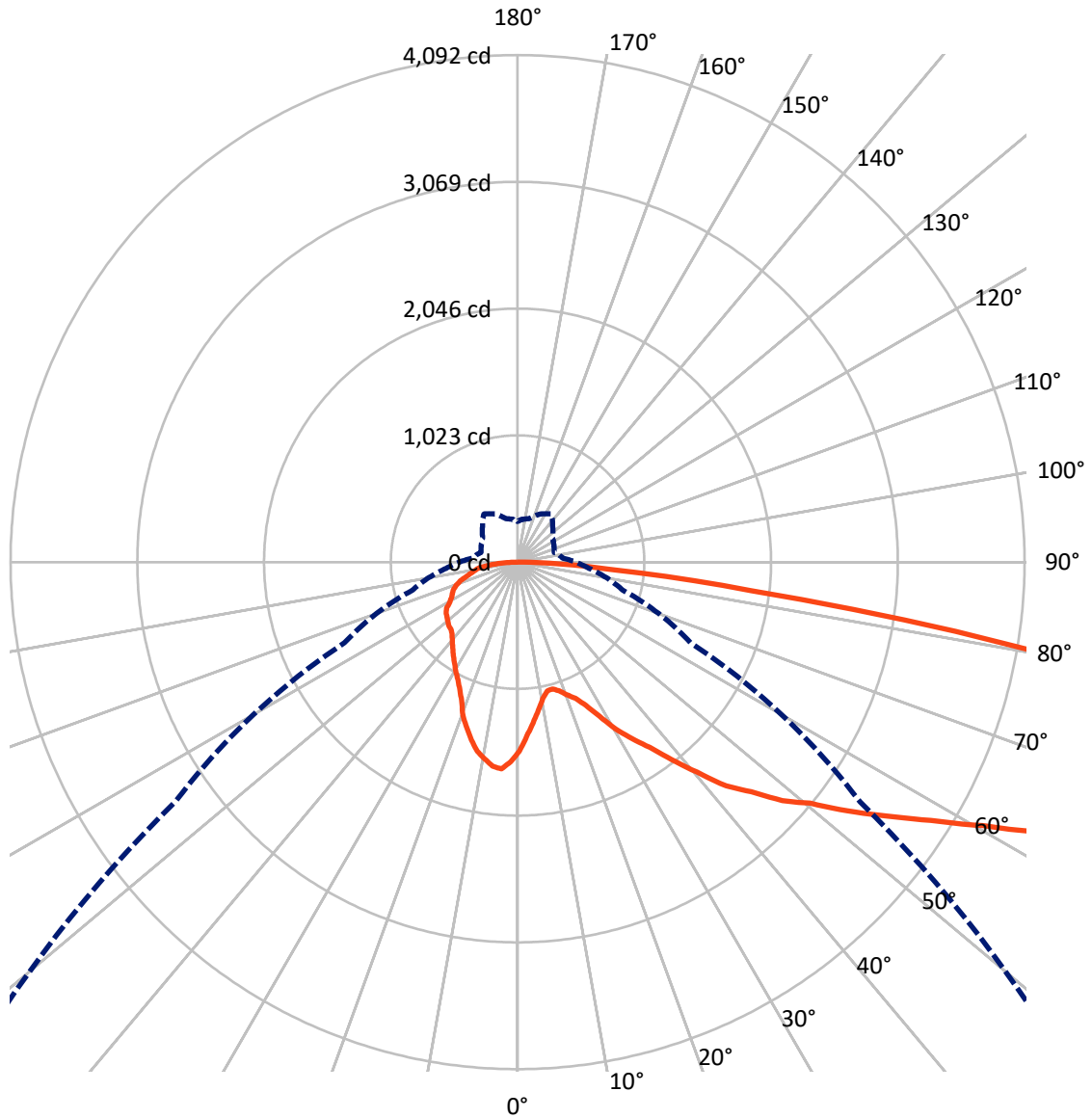
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2300.9	0.0	2300.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	8350.8	0.0	8350.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	10651.7	0.0	10651.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.9	1.3
10°-20°	394.4	3.7
20°-30°	649.2	6.1
30°-40°	970.9	9.1
40°-50°	1439.3	13.5
50°-60°	2074.1	19.5
60°-70°	2646.9	24.8
70°-80°	2059.7	19.3
80°-90°	276.3	2.6
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°	10651.7	100.0
0°-180°	10651.7	100.0

Coefficient of Utilization



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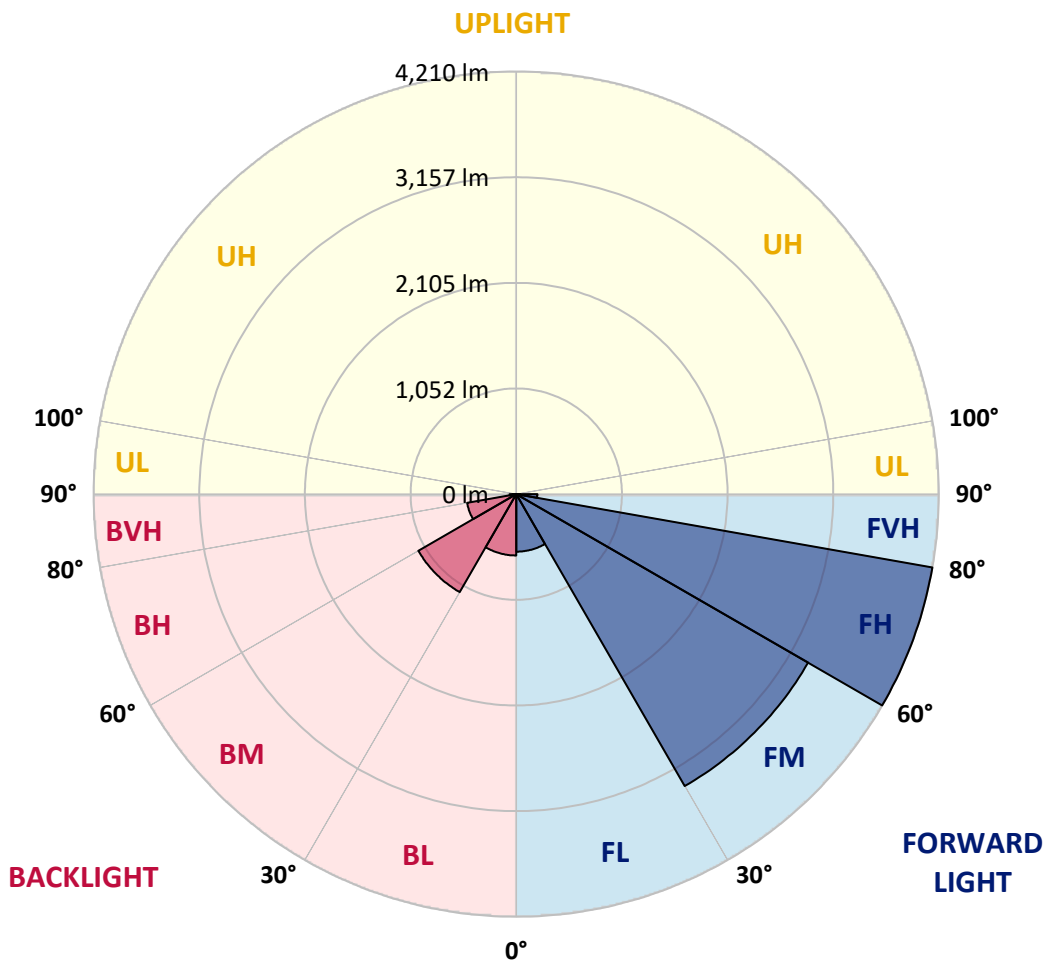
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	573.2	5.4			
FM (30°-60°)	3357.5	31.5			
FH (60°-80°)	4209.7	39.5			G2/5000
FVH (80°-90°)	210.3	2.0			G2/225
BL (0°-30°)	611.3	5.7	B2/1000		
BM (30°-60°)	1126.8	10.6	B2/2500		
BH (60°-80°)	496.8	4.7	B1/500		G1/500
BVH (80°-90°)	66.0	0.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1
2.5°	1368.3	1372.8	1387.4	1390.8	1406.6	1397.6	1416.7	1450.5	1469.6	1497.8	1531.6
5°	1260.2	1241.0	1250.0	1285.0	1303.0	1307.5	1327.8	1385.2	1421.2	1462.9	1526.0
7.5°	1132.9	1129.5	1147.6	1170.1	1206.1	1209.5	1254.6	1305.2	1379.6	1471.9	1546.2
10°	1046.2	1060.8	1071.0	1094.6	1119.4	1119.4	1176.8	1264.7	1349.1	1438.1	1550.7
12.5°	1041.7	1032.7	1034.9	1047.3	1065.4	1087.9	1141.9	1220.8	1327.8	1431.4	1569.9
15°	1056.3	1059.7	1039.5	1055.2	1062.0	1069.9	1129.5	1218.5	1314.2	1455.0	1602.5
17.5°	1134.1	1114.9	1083.4	1068.7	1092.4	1092.4	1132.9	1202.7	1316.5	1467.4	1649.8
20°	1194.9	1194.9	1143.1	1127.3	1144.2	1140.8	1169.0	1220.8	1327.8	1492.2	1702.8
22.5°	1297.3	1312.0	1226.4	1193.7	1192.6	1201.6	1226.4	1270.3	1359.3	1527.1	1753.4
25°	1444.9	1448.3	1349.1	1315.4	1279.3	1294.0	1298.5	1342.4	1387.4	1567.6	1810.9
27.5°	1609.3	1607.0	1515.8	1431.4	1407.7	1411.1	1386.3	1415.6	1429.1	1580.0	1893.1
30°	1791.7	1771.5	1702.8	1583.4	1564.2	1542.8	1488.8	1487.7	1515.8	1649.8	2006.8
32.5°	1911.1	1885.2	1837.9	1752.3	1699.4	1701.6	1616.0	1614.9	1590.1	1726.4	2105.9
35°	2028.2	1988.8	1976.4	1888.6	1835.7	1841.3	1772.6	1763.6	1718.5	1842.4	2269.2
37.5°	2169.0	2134.1	2153.2	2086.8	2021.5	1994.4	1962.9	1951.6	1893.1	2005.7	2492.2
40°	2324.4	2313.1	2300.8	2268.1	2228.7	2230.9	2197.2	2185.9	2099.2	2202.8	2706.2
42.5°	2533.9	2491.1	2426.9	2448.3	2468.6	2490.0	2478.7	2449.4	2359.3	2403.2	2944.9
45°	2728.7	2672.4	2554.1	2560.9	2644.2	2661.1	2797.4	2794.0	2612.7	2657.8	3216.3
47.5°	2860.5	2834.6	2763.6	2755.7	2875.1	2874.0	3119.5	3119.5	2879.6	2911.1	3508.0
50°	3056.4	2988.8	2958.4	2997.9	3058.7	3100.3	3448.3	3469.7	3142.0	3175.8	3889.8
52.5°	3286.2	3201.7	3125.1	3226.5	3334.6	3361.6	3773.8	3764.8	3343.6	3483.2	4336.9
55°	3476.5	3433.7	3380.8	3439.3	3616.1	3649.9	4100.4	4017.0	3545.2	3737.7	4552.0
57.5°	3698.3	3724.2	3735.5	3720.9	3931.4	3984.4	4473.1	4234.4	3718.6	3908.9	4678.1
60°	4032.8	4048.6	4063.2	4098.1	4321.1	4395.4	4768.2	4506.9	3827.8	4008.0	4688.2
62.5°	4541.8	4481.0	4513.7	4634.2	4813.2	4897.7	5202.9	4698.4	3911.2	4067.7	4357.1
65°	5124.1	5041.8	5008.1	5163.5	5627.5	5559.9	5745.7	4841.4	3790.7	3844.7	3695.0
67.5°	5714.2	5723.2	5636.5	5948.4	6517.1	6517.1	6250.2	4910.1	3464.1	3116.1	2591.3
70°	6182.7	6210.8	6258.1	6862.9	7763.8	7900.1	6875.2	4628.5	2798.5	2074.4	1416.7
72.5°	6175.9	6091.4	6333.6	7447.3	8896.7	8783.0	7005.9	3660.0	1746.7	1015.8	649.8
73°	6037.4	5966.4	6231.1	7441.7	8942.9	8835.9	6910.2	3374.0	1540.6	880.7	577.7
75°	4930.4	4802.0	5252.4	6740.1	8273.9	8356.2	5870.7	2200.5	844.6	542.8	406.5
77.5°	2247.8	2304.1	2890.9	4521.6	6376.4	6473.2	3859.4	951.6	462.9	380.6	299.6
80°	721.9	757.9	1125.0	2247.8	3996.8	4171.3	1783.8	432.4	330.0	291.7	224.1
82.5°	275.9	274.8	471.9	934.7	1894.2	2005.7	652.1	263.5	245.5	215.1	158.8
85°	96.9	101.4	177.9	369.4	745.5	780.4	226.4	146.4	170.1	144.1	91.2
87.5°	33.8	34.9	63.1	134.0	256.8	271.4	63.1	58.6	84.5	83.3	46.2
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°	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1
2.5°	1542.8	1553.0	1556.4	1596.9	1596.9	1596.9	1612.7	1612.7	1608.2	1596.9	1623.9
5°	1549.6	1567.6	1602.5	1637.4	1646.5	1654.3	1675.7	1657.7	1664.5	1653.2	1663.3
7.5°	1568.8	1593.5	1658.8	1680.2	1665.6	1682.5	1660.0	1647.6	1635.2	1639.7	1623.9
10°	1601.4	1632.9	1663.3	1702.8	1674.6	1657.7	1611.5	1600.3	1560.9	1547.4	1559.7
12.5°	1642.0	1680.2	1732.0	1717.4	1663.3	1614.9	1565.4	1518.1	1494.4	1460.6	1469.6
15°	1682.5	1726.4	1734.3	1709.5	1642.0	1581.1	1491.0	1424.6	1401.0	1370.5	1386.3
17.5°	1726.4	1768.1	1754.6	1690.4	1599.2	1506.8	1404.3	1339.0	1289.5	1270.3	1270.3
20°	1791.7	1812.0	1790.6	1658.8	1547.4	1425.7	1326.6	1252.3	1202.7	1194.9	1182.5
22.5°	1842.4	1875.1	1779.3	1612.7	1471.9	1319.9	1206.1	1178.0	1163.3	1150.9	1135.2
25°	1907.7	1906.6	1759.1	1569.9	1342.4	1193.7	1125.0	1122.8	1116.0	1111.5	1132.9
27.5°	1969.7	1943.8	1735.4	1464.0	1208.4	1098.0	1060.8	1085.6	1095.8	1089.0	1098.0
30°	2067.6	2024.8	1701.6	1351.4	1090.1	1001.2	1007.9	1041.7	1058.6	1068.7	1055.2
32.5°	2171.3	2105.9	1631.8	1234.3	985.4	940.3	956.1	991.0	1011.3	1022.6	1034.9
35°	2321.0	2169.0	1560.9	1081.1	909.9	903.2	912.2	931.3	960.6	968.5	971.9
37.5°	2505.7	2264.7	1465.1	958.4	851.4	859.3	868.3	875.0	876.2	890.8	885.2
40°	2690.4	2345.8	1325.5	841.2	790.6	833.4	828.9	816.5	806.3	792.8	789.4
42.5°	2852.6	2416.8	1170.1	742.1	736.5	806.3	791.7	760.2	736.5	726.4	709.5
45°	3035.0	2517.0	1013.6	680.2	694.8	773.7	769.2	720.7	690.3	654.3	649.8
47.5°	3271.5	2621.7	863.8	616.0	655.4	761.3	763.5	701.6	657.7	609.3	602.5
50°	3574.5	2772.6	750.0	589.0	631.8	743.3	746.6	675.7	618.3	568.7	564.2
52.5°	3865.0	2926.9	655.4	547.3	616.0	721.9	729.8	652.1	585.6	523.7	527.0
55°	4011.4	2870.6	574.3	516.9	580.0	687.0	716.2	635.2	536.1	493.3	492.1
57.5°	4044.1	2732.1	510.2	485.4	549.6	649.8	693.7	584.5	513.5	477.5	473.0
60°	3937.1	2490.0	459.5	451.6	511.3	611.5	641.9	557.5	491.0	461.7	455.0
62.5°	3673.6	2238.8	424.6	435.8	478.6	569.8	609.3	538.3	469.6	449.3	434.7
65°	3012.5	1841.3	396.4	405.4	444.8	529.3	589.0	516.9	450.5	431.3	430.2
67.5°	2086.8	1269.2	373.9	390.8	417.8	500.0	568.7	493.3	425.7	418.9	409.9
70°	1068.7	676.8	344.6	358.1	388.5	462.9	532.7	468.5	399.8	398.7	387.4
72.5°	541.7	396.4	310.8	331.1	352.5	414.4	487.6	435.8	367.1	354.7	336.7
73°	468.5	367.1	305.2	323.2	343.5	400.9	474.1	427.9	362.6	344.6	327.7
75°	341.2	289.4	273.7	291.7	307.4	361.5	429.1	391.9	333.3	314.2	298.4
77.5°	255.6	223.0	227.5	247.8	261.3	311.9	381.8	354.7	301.8	275.9	269.2
80°	188.1	170.1	188.1	207.2	217.4	274.8	348.0	307.4	254.5	225.2	219.6
82.5°	134.0	123.9	145.3	157.7	162.2	227.5	313.1	245.5	192.6	154.3	141.9
85°	76.6	75.5	98.0	96.9	100.2	132.9	206.1	163.3	123.9	94.6	92.3
87.5°	33.8	37.2	49.6	39.4	41.7	63.1	87.8	60.8	50.7	28.2	21.4
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)