

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: P478503

Luminaire Tested: **IFLD-S-SA2B-735-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478503
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-735-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

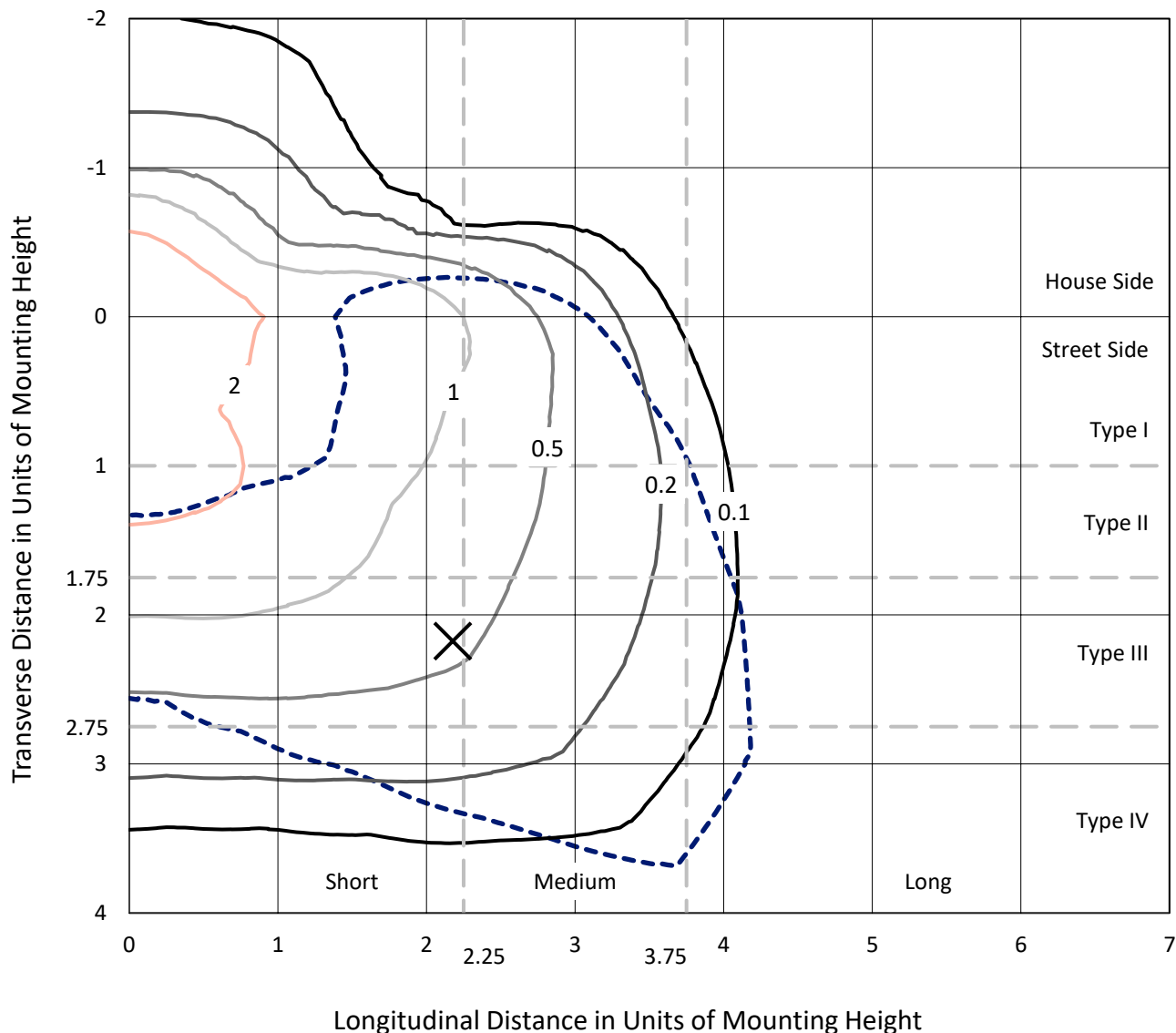
Lumens per Lamp: N/A
Luminaire Lumens: 11382.7 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

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

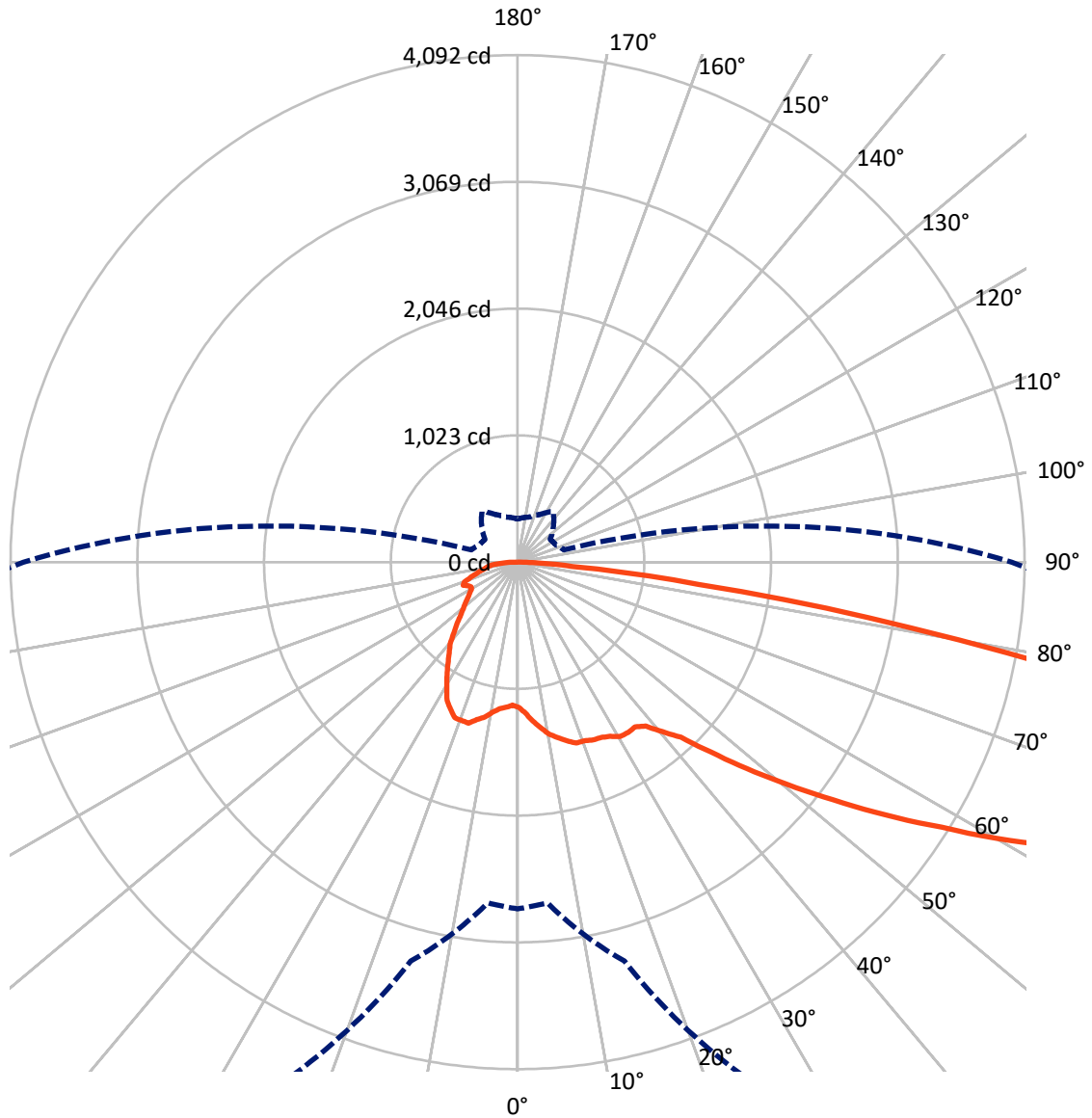
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2533.9	0.0	2533.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	8848.9	0.0	8848.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	11382.7	0.0	11382.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	1.1
10°-20°	399.1	3.5
20°-30°	673.9	5.9
30°-40°	932.6	8.2
40°-50°	1334.0	11.7
50°-60°	2151.6	18.9
60°-70°	3173.3	27.9
70°-80°	2304.4	20.2
80°-90°	293.8	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°	11382.7	100.0
0°-180°	11382.7	100.0

Coefficient of Utilization



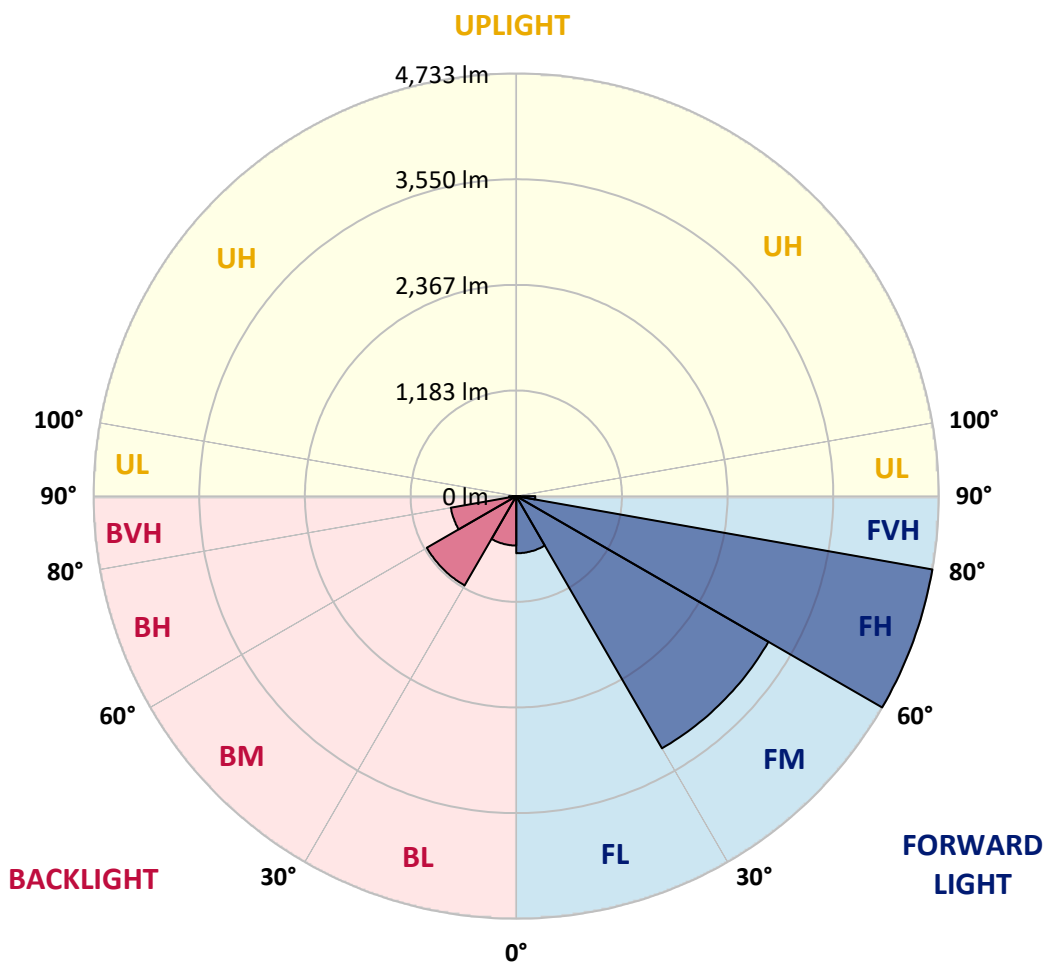
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	639.7	5.6			
FM (30°-60°)	3261.9	28.7			
FH (60°-80°)	4733.5	41.6			G2/5000
FVH (80°-90°)	213.8	1.9			G2/225
BL (0°-30°)	553.3	4.9	B2/1000		
BM (30°-60°)	1156.4	10.2	B2/2500		
BH (60°-80°)	744.3	6.5	B2/1000		G2/1000
BVH (80°-90°)	79.9	0.7			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°	35°	44°	45°	55°	65°	75°	85°
0°	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2
2.5°	1234.8	1242.2	1234.8	1233.6	1221.3	1212.7	1220.1	1209.0	1196.8	1191.9	1180.8
5°	1347.7	1349.0	1335.5	1336.7	1310.9	1283.9	1288.8	1255.7	1220.1	1206.6	1184.5
7.5°	1463.1	1449.6	1430.0	1423.8	1383.3	1353.9	1350.2	1320.7	1265.5	1234.8	1204.1
10°	1538.0	1542.9	1511.0	1484.0	1449.6	1414.0	1412.8	1357.6	1325.6	1280.2	1241.0
12.5°	1604.3	1605.5	1578.5	1535.5	1492.6	1448.4	1454.5	1430.0	1376.0	1333.0	1293.7
15°	1655.8	1648.5	1619.0	1579.7	1534.3	1499.9	1496.3	1475.4	1430.0	1394.4	1329.3
17.5°	1670.6	1666.9	1637.4	1595.7	1551.5	1525.7	1535.5	1501.2	1482.8	1450.8	1388.2
20°	1642.3	1633.7	1628.8	1582.2	1550.3	1547.8	1539.2	1546.6	1515.9	1486.4	1441.0
22.5°	1590.8	1587.1	1584.6	1547.8	1533.1	1544.1	1558.9	1569.9	1565.0	1536.8	1485.2
25°	1538.0	1555.2	1539.2	1522.0	1542.9	1571.1	1567.5	1603.1	1603.1	1594.5	1551.5
27.5°	1574.8	1563.8	1551.5	1542.9	1550.3	1594.5	1592.0	1635.0	1650.9	1635.0	1585.9
30°	1666.9	1655.8	1620.2	1582.2	1572.4	1620.2	1632.5	1670.6	1677.9	1638.6	1596.9
32.5°	1839.9	1833.8	1777.3	1665.7	1605.5	1632.5	1638.6	1681.6	1675.5	1650.9	1633.7
35°	2096.5	2075.6	1997.1	1808.0	1675.5	1648.5	1632.5	1666.9	1690.2	1677.9	1662.0
37.5°	2377.6	2354.3	2257.3	2017.9	1801.9	1691.4	1679.2	1707.4	1734.4	1728.3	1695.1
40°	2646.4	2646.4	2559.2	2280.6	1989.7	1795.8	1798.2	1766.3	1790.9	1779.8	1785.9
42.5°	2911.5	2901.7	2866.1	2588.7	2191.0	1970.1	1930.8	1851.0	1895.2	1891.5	1900.1
45°	3180.3	3173.0	3163.1	2875.9	2479.5	2205.7	2184.9	2041.3	2081.8	2064.6	2101.4
47.5°	3395.1	3403.7	3403.7	3196.3	2787.5	2520.0	2489.3	2262.2	2339.5	2348.1	2356.7
50°	3578.0	3581.7	3578.0	3501.9	3131.2	2879.6	2817.0	2586.2	2663.6	2731.1	2809.6
52.5°	3830.9	3835.8	3818.6	3789.1	3597.7	3257.7	3187.7	2931.2	3089.5	3160.7	3301.8
55°	4142.6	4105.8	4073.9	4096.0	4045.7	3673.8	3601.3	3287.1	3525.2	3619.8	3902.1
57.5°	4200.3	4232.3	4313.3	4488.8	4561.2	4078.8	4037.1	3724.1	4017.4	4099.7	4571.0
60°	4404.1	4351.3	4550.2	4930.7	5011.7	4606.6	4563.7	4202.8	4507.2	4593.1	5188.4
62.5°	4537.9	4535.4	4830.0	5281.7	5465.8	5154.1	5066.9	4825.1	5036.2	5119.7	5861.1
65°	4498.6	4534.2	5057.1	5487.9	5845.1	5776.4	5726.1	5360.3	5638.9	5631.5	6299.3
67.5°	4140.2	4240.8	4913.5	5636.5	6409.8	6535.0	6519.0	6112.7	6128.7	5972.8	6494.4
70°	3643.1	3608.7	4305.9	5481.8	6692.1	7434.7	7431.0	6672.4	6569.3	6047.7	5934.7
72°	2798.6	2760.5	3333.8	4707.3	6543.5	7794.3	7904.8	7060.3	6564.4	5737.1	4902.4
72.5°	2540.8	2507.7	3078.4	4431.1	6379.1	7887.6	7836.1	7075.0	6512.9	5591.0	4579.6
75°	1169.8	1131.7	1538.0	2712.7	4976.1	6989.1	7164.6	6620.9	5688.0	4450.7	2743.4
77.5°	348.6	337.5	494.7	1094.9	2891.9	5149.2	5216.7	4995.7	3970.8	2437.7	1017.6
80°	193.9	195.2	255.3	410.0	1271.6	2976.6	3219.6	3085.8	1948.0	805.2	338.8
82.5°	108.0	114.2	159.6	243.0	584.3	1366.2	1470.5	1417.7	704.6	378.1	185.3
85°	56.5	58.9	83.5	130.1	331.4	432.1	444.3	476.3	365.8	257.8	99.4
87.5°	22.1	22.1	30.7	54.0	122.7	133.8	120.3	146.1	209.9	166.9	49.1
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°	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2	1172.2
2.5°	1190.6	1180.8	1179.6	1163.6	1168.5	1155.0	1156.3	1153.8	1155.0	1152.6	1146.4
5°	1184.5	1177.1	1156.3	1169.8	1157.5	1174.7	1188.2	1183.3	1186.9	1185.7	1186.9
7.5°	1193.1	1183.3	1180.8	1173.4	1184.5	1191.9	1202.9	1233.6	1231.1	1234.8	1242.2
10°	1218.9	1207.8	1200.4	1211.5	1205.4	1228.7	1241.0	1256.9	1285.1	1286.4	1271.6
12.5°	1269.2	1261.8	1247.1	1249.5	1270.4	1277.8	1285.1	1295.0	1313.4	1309.7	1323.2
15°	1326.9	1310.9	1302.3	1299.9	1304.8	1313.4	1312.1	1322.0	1331.8	1340.4	1336.7
17.5°	1368.6	1347.7	1350.2	1362.5	1361.2	1358.8	1342.8	1337.9	1342.8	1347.7	1345.3
20°	1411.6	1414.0	1395.6	1384.6	1379.7	1355.1	1342.8	1328.1	1313.4	1320.7	1331.8
22.5°	1465.6	1454.5	1427.5	1394.4	1369.8	1355.1	1317.1	1291.3	1291.3	1298.6	1295.0
25°	1526.9	1503.6	1457.0	1396.8	1366.2	1303.6	1276.5	1272.9	1263.0	1274.1	1279.0
27.5°	1574.8	1554.0	1490.1	1388.2	1303.6	1253.2	1237.3	1232.4	1248.3	1249.5	1269.2
30°	1594.5	1588.3	1495.0	1366.2	1239.7	1158.7	1148.9	1171.0	1188.2	1213.9	1215.2
32.5°	1620.2	1622.7	1502.4	1314.6	1156.3	1075.2	1060.5	1087.5	1136.6	1157.5	1173.4
35°	1663.2	1675.5	1496.3	1250.8	1067.9	990.6	988.1	995.5	1043.3	1080.2	1101.0
37.5°	1738.1	1735.6	1495.0	1174.7	997.9	916.9	897.3	899.7	931.6	962.3	958.6
40°	1838.7	1828.9	1491.4	1075.2	907.1	854.3	821.2	808.9	806.4	797.8	800.3
42.5°	1976.2	1956.6	1490.1	974.6	824.8	768.4	745.1	713.1	689.8	645.6	648.1
45°	2167.7	2133.3	1458.2	880.1	743.8	697.2	661.6	638.3	587.9	532.7	532.7
47.5°	2463.5	2351.8	1459.4	775.7	665.3	627.2	602.7	562.2	508.2	464.0	459.1
50°	2899.2	2643.9	1417.7	693.5	601.5	575.7	549.9	503.3	451.7	421.0	424.7
52.5°	3461.4	3079.7	1416.5	619.9	551.1	532.7	504.5	462.7	424.7	405.1	397.7
55°	4131.6	3656.6	1460.7	559.7	499.6	489.8	477.5	443.1	406.3	389.1	387.9
57.5°	4817.7	4220.0	1531.9	516.8	455.4	462.7	454.2	427.2	397.7	378.1	375.6
60°	5427.8	4666.8	1388.2	465.2	416.1	432.1	444.3	421.0	405.1	403.8	395.2
62.5°	5888.1	4858.3	1055.6	425.9	395.2	424.7	457.8	472.6	465.2	475.0	476.3
65°	6056.2	4742.9	726.7	405.1	379.3	441.9	515.5	510.6	467.7	449.2	459.1
67.5°	5820.6	4275.2	538.9	380.5	368.2	477.5	548.7	487.3	422.2	419.8	412.4
70°	5005.5	3623.4	439.4	354.7	349.8	457.8	533.9	451.7	397.7	381.7	374.4
72°	3988.0	2821.9	385.4	336.3	320.4	408.7	499.6	423.5	376.8	357.2	348.6
72.5°	3640.6	2615.7	378.1	327.7	314.2	397.7	482.4	414.9	371.9	354.7	341.2
75°	1997.1	1339.1	332.6	300.7	265.1	343.7	446.8	389.1	351.1	326.5	324.0
77.5°	742.6	519.2	287.2	266.4	229.5	297.0	406.3	369.5	319.1	288.5	282.3
80°	284.8	273.7	234.4	224.6	192.7	260.2	374.4	331.4	271.3	240.6	230.8
82.5°	173.1	159.6	178.0	175.5	147.3	236.9	352.3	310.5	240.6	195.2	189.0
85°	94.5	94.5	124.0	119.1	103.1	189.0	266.4	206.2	152.2	125.2	127.7
87.5°	41.7	49.1	66.3	62.6	56.5	106.8	130.1	109.2	76.1	51.6	55.2
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)