

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: P478700

Luminaire Tested: **IFLD-S-SA2D-830-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478700
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-830-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

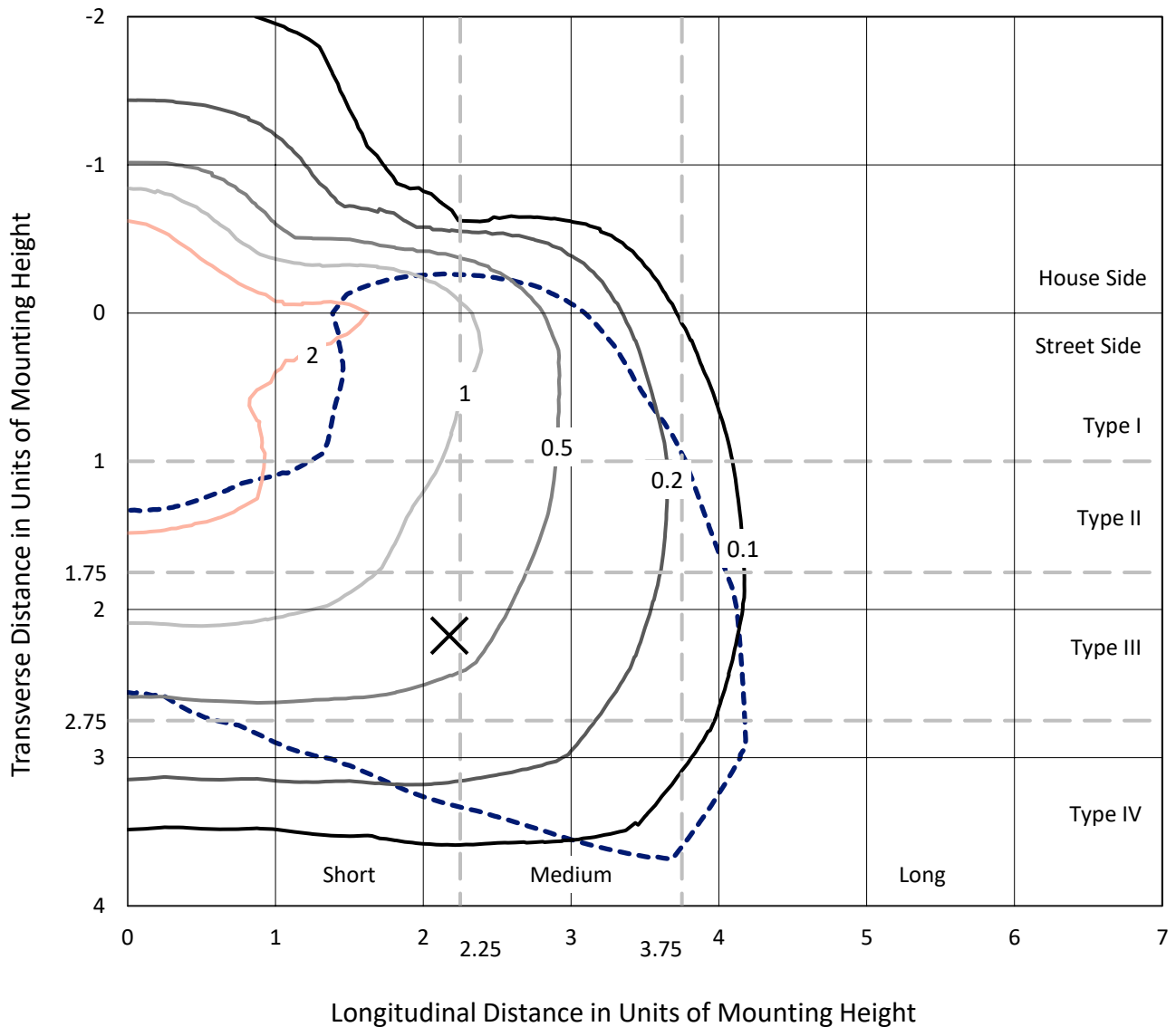
Lumens per Lamp: N/A
Luminaire Lumens: 12561.1 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (A_{in}): 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

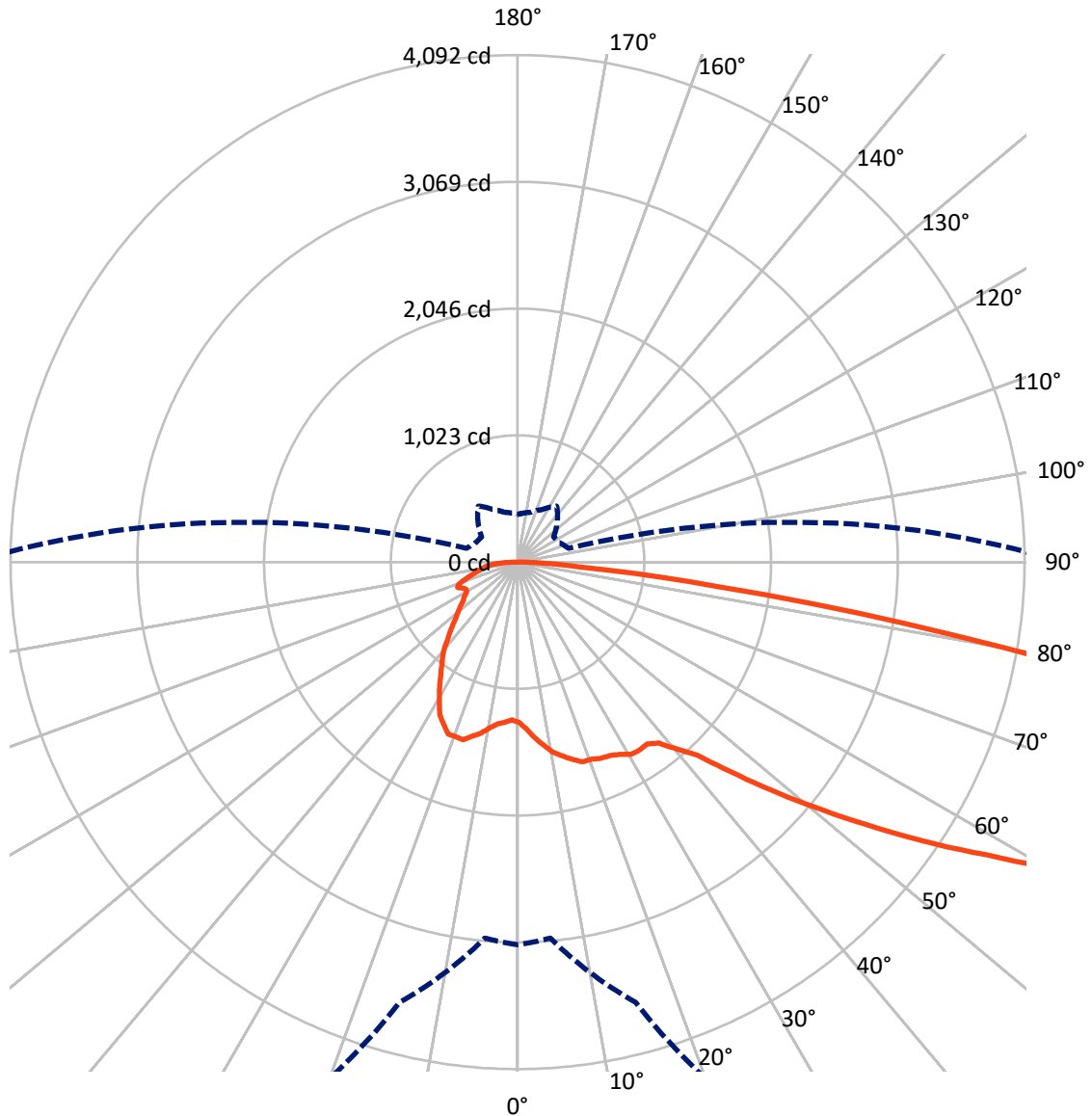
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 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	2796.2	0.0	2796.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	9764.9	0.0	9764.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	12561.1	0.0	12561.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	1.1
10°-20°	440.4	3.5
20°-30°	743.7	5.9
30°-40°	1029.2	8.2
40°-50°	1472.1	11.7
50°-60°	2374.4	18.9
60°-70°	3501.9	27.9
70°-80°	2543.0	20.2
80°-90°	324.2	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°	12561.1	100.0
0°-180°	12561.1	100.0

Coefficient of Utilization



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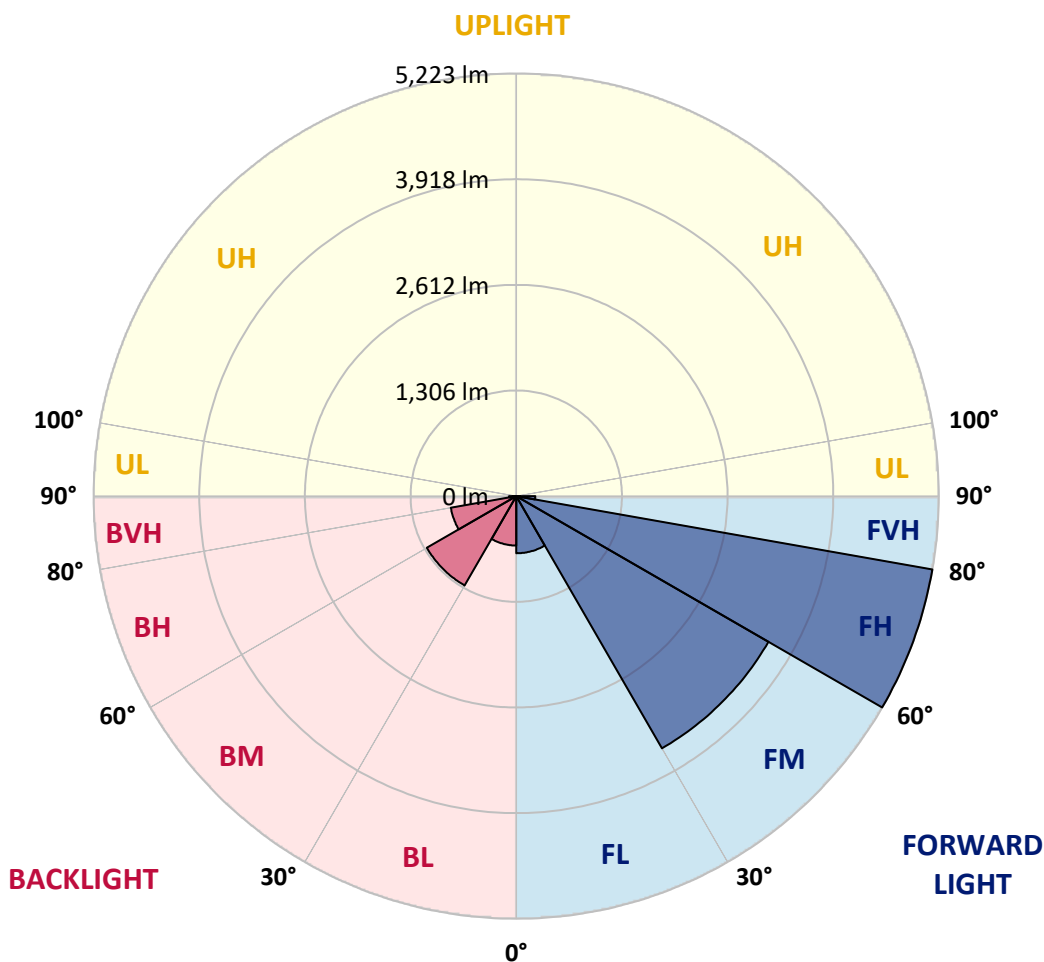
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	705.9	5.6			
FM (30°-60°)	3599.6	28.7			
FH (60°-80°)	5223.5	41.6			G3/7500
FVH (80°-90°)	235.9	1.9			G3/500
BL (0°-30°)	610.5	4.9	B2/1000		
BM (30°-60°)	1276.1	10.2	B2/2500		
BH (60°-80°)	821.3	6.5	B2/1000		G2/1000
BVH (80°-90°)	88.2	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6
2.5°	1362.6	1370.8	1362.6	1361.3	1347.7	1338.3	1346.4	1334.2	1320.7	1315.2	1303.1
5°	1487.3	1488.6	1473.7	1475.1	1446.6	1416.8	1422.2	1385.7	1346.4	1331.5	1307.1
7.5°	1614.6	1599.7	1578.0	1571.2	1526.5	1494.0	1490.0	1457.5	1396.5	1362.6	1328.8
10°	1697.2	1702.6	1667.4	1637.6	1599.7	1560.4	1559.1	1498.1	1462.9	1412.8	1369.4
12.5°	1770.4	1771.7	1741.9	1694.5	1647.1	1598.3	1605.1	1578.0	1518.4	1471.0	1427.7
15°	1827.3	1819.1	1786.6	1743.3	1693.2	1655.2	1651.2	1628.1	1578.0	1538.7	1466.9
17.5°	1843.5	1839.4	1806.9	1760.9	1712.1	1683.7	1694.5	1656.6	1636.3	1601.0	1532.0
20°	1812.4	1802.9	1797.5	1746.0	1710.8	1708.1	1698.6	1706.7	1672.8	1640.3	1590.2
22.5°	1755.5	1751.4	1748.7	1708.1	1691.8	1704.0	1720.2	1732.4	1727.0	1695.9	1639.0
25°	1697.2	1716.2	1698.6	1679.6	1702.6	1733.8	1729.7	1769.0	1769.0	1759.5	1712.1
27.5°	1737.9	1725.7	1712.1	1702.6	1710.8	1759.5	1756.8	1804.2	1821.8	1804.2	1750.0
30°	1839.4	1827.3	1788.0	1746.0	1735.1	1788.0	1801.5	1843.5	1851.6	1808.3	1762.2
32.5°	2030.4	2023.7	1961.3	1838.1	1771.7	1801.5	1808.3	1855.7	1848.9	1821.8	1802.9
35°	2313.5	2290.5	2203.8	1995.2	1848.9	1819.1	1801.5	1839.4	1865.2	1851.6	1834.0
37.5°	2623.7	2598.0	2491.0	2226.8	1988.4	1866.5	1853.0	1884.1	1913.9	1907.2	1870.6
40°	2920.3	2920.3	2824.2	2516.7	2195.7	1981.7	1984.4	1949.2	1976.2	1964.1	1970.8
42.5°	3212.9	3202.1	3162.8	2856.7	2417.8	2174.0	2130.7	2042.6	2091.4	2087.3	2096.8
45°	3509.6	3501.4	3490.6	3173.6	2736.1	2434.1	2411.0	2252.6	2297.3	2278.3	2318.9
47.5°	3746.6	3756.1	3756.1	3527.2	3076.1	2780.8	2747.0	2496.4	2581.7	2591.2	2600.7
50°	3948.4	3952.5	3948.4	3864.5	3455.4	3177.7	3108.6	2854.0	2939.3	3013.8	3100.5
52.5°	4227.5	4232.9	4213.9	4181.4	3970.1	3594.9	3517.7	3234.6	3409.3	3487.9	3643.7
55°	4571.5	4530.9	4495.7	4520.0	4464.5	4054.1	3974.2	3627.4	3890.2	3994.5	4306.0
57.5°	4635.2	4670.4	4759.8	4953.5	5033.4	4501.1	4455.0	4109.6	4433.4	4524.1	5044.2
60°	4860.0	4801.8	5021.2	5441.1	5530.5	5083.5	5036.1	4637.9	4973.8	5068.6	5725.6
62.5°	5007.7	5005.0	5330.0	5828.5	6031.7	5687.6	5591.5	5324.6	5557.6	5649.7	6467.8
65°	4964.3	5003.6	5580.6	6056.1	6450.2	6374.4	6318.8	5915.2	6222.7	6214.5	6951.4
67.5°	4568.8	4679.9	5422.2	6220.0	7073.3	7211.5	7193.9	6745.5	6763.1	6591.1	7166.8
70°	4020.2	3982.3	4751.7	6049.3	7384.9	8204.3	8200.3	7363.2	7249.4	6673.7	6549.1
72°	3088.3	3046.3	3678.9	5194.6	7221.0	8601.2	8723.1	7791.2	7244.0	6331.0	5410.0
72.5°	2803.9	2767.3	3397.1	4889.8	7039.5	8704.2	8647.3	7807.5	7187.1	6169.8	5053.7
75°	1290.9	1248.9	1697.2	2993.5	5491.2	7712.6	7906.3	7306.3	6276.9	4911.5	3027.4
77.5°	384.7	372.5	545.9	1208.2	3191.3	5682.2	5756.7	5512.9	4381.9	2690.1	1122.9
80°	214.0	215.4	281.7	452.4	1403.3	3284.7	3552.9	3405.3	2149.6	888.6	373.8
82.5°	119.2	126.0	176.1	268.2	644.8	1507.6	1622.7	1564.5	777.5	417.2	204.5
85°	62.3	65.0	92.1	143.6	365.7	476.8	490.3	525.6	403.6	284.4	109.7
87.5°	24.4	24.4	33.9	59.6	135.5	147.6	132.7	161.2	231.6	184.2	54.2
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°	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6
2.5°	1313.9	1303.1	1301.7	1284.1	1289.5	1274.6	1276.0	1273.3	1274.6	1271.9	1265.1
5°	1307.1	1299.0	1276.0	1290.9	1277.3	1296.3	1311.2	1305.8	1309.8	1308.5	1309.8
7.5°	1316.6	1305.8	1303.1	1294.9	1307.1	1315.2	1327.4	1361.3	1358.6	1362.6	1370.8
10°	1345.0	1332.8	1324.7	1336.9	1330.1	1355.9	1369.4	1387.0	1418.2	1419.5	1403.3
12.5°	1400.6	1392.4	1376.2	1378.9	1401.9	1410.1	1418.2	1429.0	1449.3	1445.3	1460.2
15°	1464.2	1446.6	1437.1	1434.4	1439.9	1449.3	1448.0	1458.8	1469.7	1479.1	1475.1
17.5°	1510.3	1487.3	1490.0	1503.5	1502.2	1499.5	1481.8	1476.4	1481.8	1487.3	1484.6
20°	1557.7	1560.4	1540.1	1527.9	1522.5	1495.4	1481.8	1465.6	1449.3	1457.5	1469.7
22.5°	1617.3	1605.1	1575.3	1538.7	1511.6	1495.4	1453.4	1425.0	1425.0	1433.1	1429.0
25°	1685.0	1659.3	1607.8	1541.4	1507.6	1438.5	1408.7	1404.6	1393.8	1406.0	1411.4
27.5°	1737.9	1714.8	1644.4	1532.0	1438.5	1383.0	1365.4	1359.9	1377.5	1378.9	1400.6
30°	1759.5	1752.8	1649.8	1507.6	1368.1	1278.7	1267.8	1292.2	1311.2	1339.6	1341.0
32.5°	1788.0	1790.7	1657.9	1450.7	1276.0	1186.6	1170.3	1200.1	1254.3	1277.3	1294.9
35°	1835.4	1848.9	1651.2	1380.3	1178.4	1093.1	1090.4	1098.5	1151.3	1192.0	1215.0
37.5°	1918.0	1915.3	1649.8	1296.3	1101.2	1011.8	990.2	992.9	1028.1	1061.9	1057.9
40°	2029.1	2018.2	1645.7	1186.6	1001.0	942.7	906.2	892.6	889.9	880.4	883.1
42.5°	2180.8	2159.1	1644.4	1075.5	910.2	847.9	822.2	787.0	761.2	712.5	715.2
45°	2392.1	2354.2	1609.2	971.2	820.8	769.4	730.1	704.4	648.8	587.9	587.9
47.5°	2718.5	2595.3	1610.5	856.1	734.2	692.2	665.1	620.4	560.8	512.0	506.6
50°	3199.4	2917.6	1564.5	765.3	663.7	635.3	606.8	555.4	498.5	464.6	468.7
52.5°	3819.8	3398.5	1563.1	684.0	608.2	587.9	556.7	510.7	468.7	447.0	438.9
55°	4559.3	4035.1	1611.9	617.7	551.3	540.5	526.9	489.0	448.3	429.4	428.0
57.5°	5316.5	4656.8	1690.4	570.3	502.5	510.7	501.2	471.4	438.9	417.2	414.5
60°	5989.7	5149.9	1532.0	513.4	459.2	476.8	490.3	464.6	447.0	445.6	436.2
62.5°	6497.6	5361.2	1164.9	470.0	436.2	468.7	505.2	521.5	513.4	524.2	525.6
65°	6683.2	5233.9	801.9	447.0	418.5	487.6	568.9	563.5	516.1	495.8	506.6
67.5°	6423.1	4717.8	594.6	419.9	406.4	526.9	605.5	537.7	466.0	463.2	455.1
70°	5523.7	3998.5	484.9	391.5	386.0	505.2	589.2	498.5	438.9	421.3	413.1
72°	4400.8	3114.0	425.3	371.1	353.5	451.1	551.3	467.3	415.8	394.2	384.7
72.5°	4017.5	2886.5	417.2	361.7	346.8	438.9	532.3	457.8	410.4	391.5	376.6
75°	2203.8	1477.8	367.1	331.9	292.6	379.3	493.0	429.4	387.4	360.3	357.6
77.5°	819.5	573.0	317.0	293.9	253.3	327.8	448.3	407.7	352.2	318.3	311.5
80°	314.2	302.1	258.7	247.9	212.7	287.2	413.1	365.7	299.3	265.5	254.7
82.5°	191.0	176.1	196.4	193.7	162.5	261.4	388.7	342.7	265.5	215.4	208.6
85°	104.3	104.3	136.8	131.4	113.8	208.6	293.9	227.6	168.0	138.2	140.9
87.5°	46.1	54.2	73.1	69.1	62.3	117.8	143.6	120.6	84.0	56.9	61.0
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)