

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: P479168

Luminaire Tested: **IFLD-S-SA2D-722-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479168
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

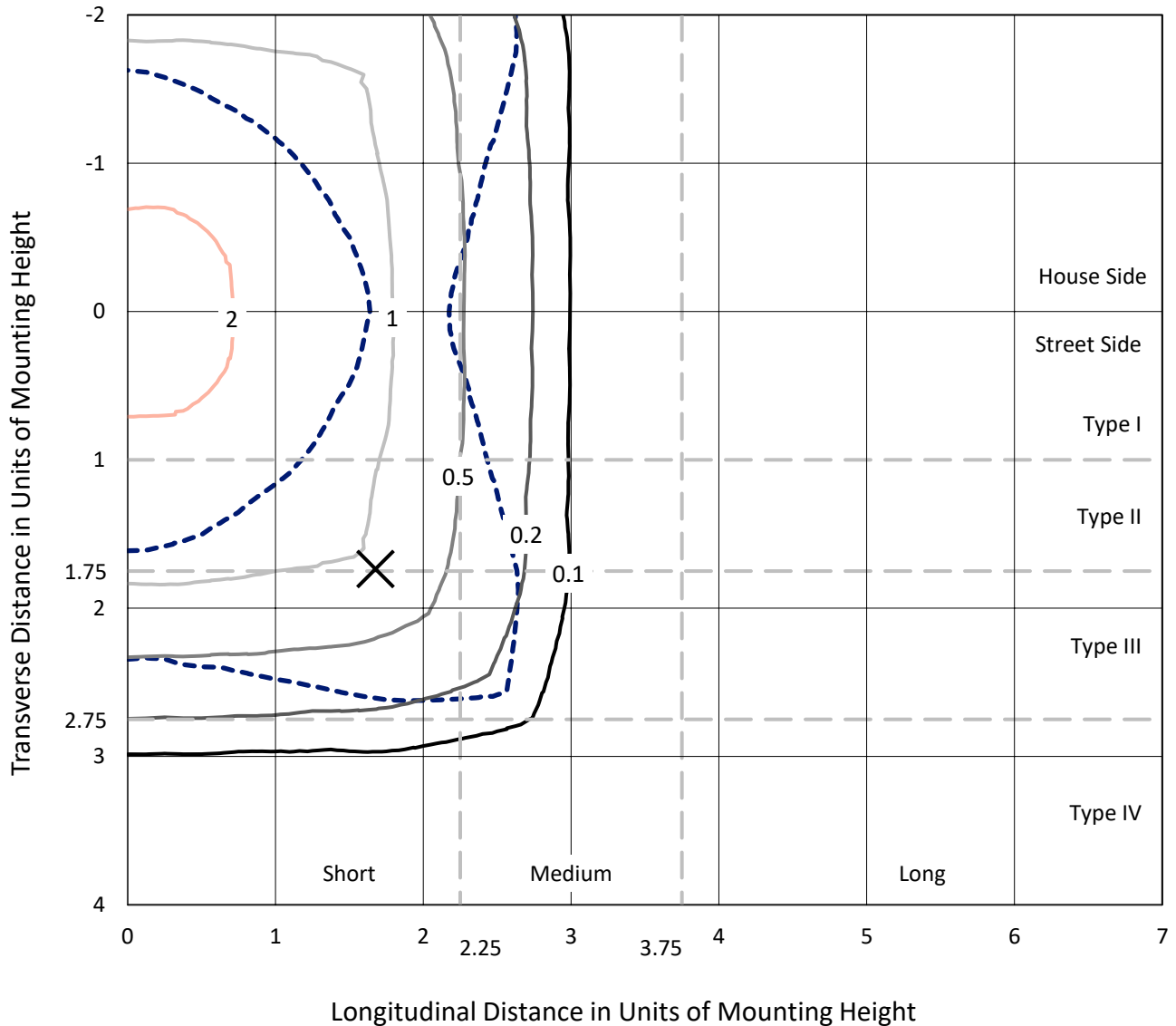
Lumens per Lamp: N/A
Luminaire Lumens: 11628.5 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 123.9
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

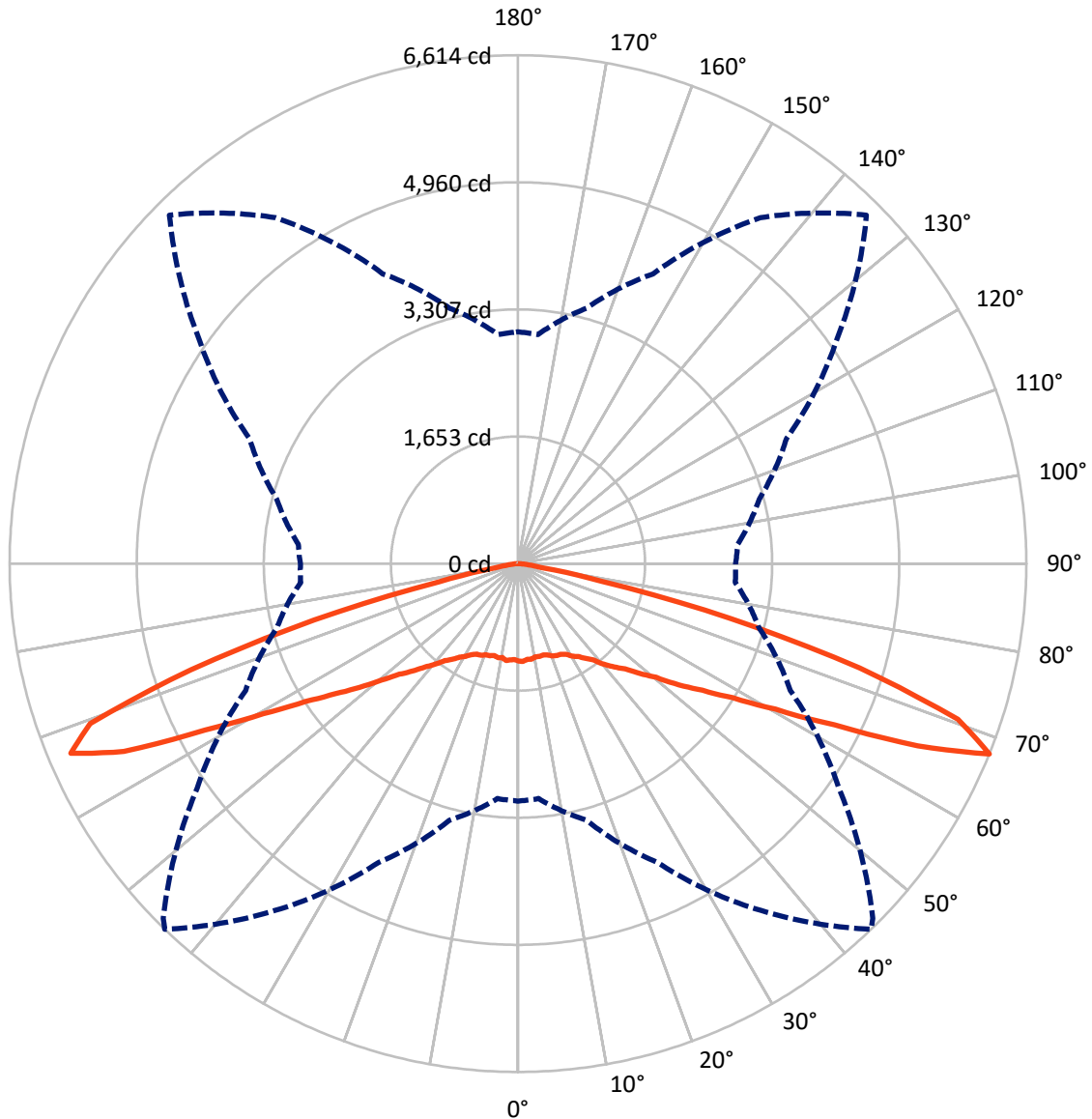
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5799.3	0.0	5799.3
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	5829.1	0.0	5829.1
	% Fixture	50.1	0.0	50.1
Total	Lumens	11628.5	0.0	11628.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	1.0
10°-20°	351.2	3.0
20°-30°	597.2	5.1
30°-40°	946.8	8.1
40°-50°	1543.9	13.3
50°-60°	2636.8	22.7
60°-70°	4010.5	34.5
70°-80°	1351.8	11.6
80°-90°	70.2	0.6
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°	11628.5	100.0
0°-180°	11628.5	100.0

Coefficient of Utilization



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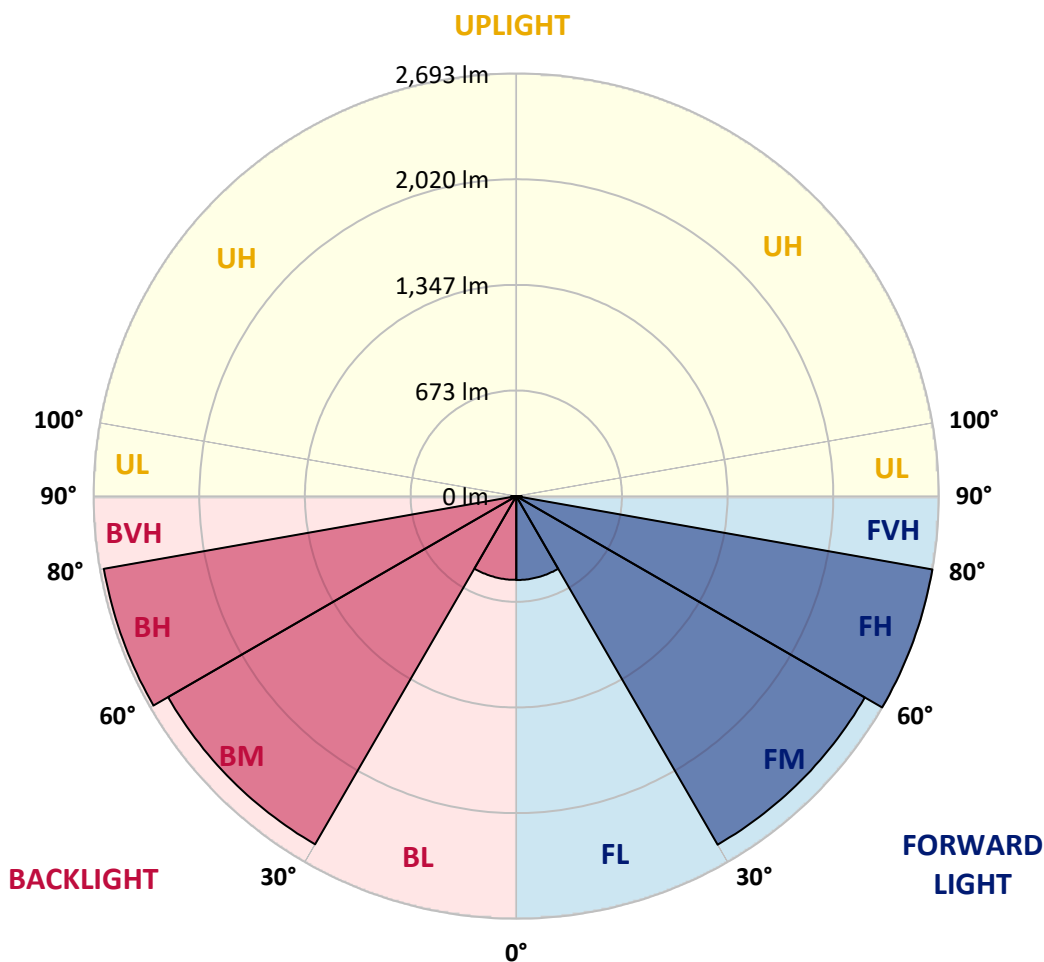
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	534.8	4.6			
FM (30°-60°)	2565.1	22.1			
FH (60°-80°)	2693.3	23.2			G2/5000
FVH (80°-90°)	35.9	0.3			G1/100
BL (0°-30°)	533.7	4.6	B2/1000		
BM (30°-60°)	2562.4	22.0	B3/5000		
BH (60°-80°)	2669.0	23.0	B4/5000		G2/5000
BVH (80°-90°)	34.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1270.2	1270.2	1270.2	1270.2	1270.2	1270.2	1270.2	1270.2	1270.2	1270.2	1270.2
2.5°	1241.0	1255.6	1266.2	1264.9	1268.9	1272.9	1267.6	1275.5	1270.2	1279.5	1284.8
5°	1264.9	1260.9	1262.2	1254.3	1272.9	1251.6	1251.6	1262.2	1275.5	1259.6	1268.9
7.5°	1250.3	1247.6	1241.0	1253.0	1256.9	1256.9	1267.6	1247.6	1270.2	1275.5	1276.8
10°	1234.4	1219.8	1239.7	1251.6	1254.3	1233.0	1242.3	1247.6	1241.0	1247.6	1251.6
12.5°	1221.1	1229.1	1229.1	1229.1	1225.1	1239.7	1249.0	1247.6	1234.4	1246.3	1225.1
15°	1219.8	1215.8	1227.7	1238.4	1231.7	1234.4	1238.4	1250.3	1225.1	1230.4	1230.4
17.5°	1218.4	1223.8	1227.7	1226.4	1249.0	1249.0	1245.0	1237.0	1256.9	1246.3	1231.7
20°	1223.8	1219.8	1230.4	1234.4	1250.3	1282.2	1270.2	1263.6	1253.0	1239.7	1239.7
22.5°	1230.4	1227.7	1242.3	1259.6	1290.1	1298.1	1296.8	1288.8	1270.2	1254.3	1251.6
25°	1254.3	1230.4	1246.3	1279.5	1290.1	1306.0	1316.7	1306.0	1280.8	1284.8	1260.9
27.5°	1290.1	1286.1	1307.4	1329.9	1320.6	1335.2	1326.0	1333.9	1335.2	1315.3	1291.4
30°	1332.6	1320.6	1333.9	1377.7	1381.7	1397.6	1381.7	1360.5	1367.1	1349.8	1337.9
32.5°	1393.6	1389.7	1414.9	1444.1	1449.4	1441.4	1433.5	1445.4	1417.5	1404.3	1383.0
35°	1433.5	1450.7	1481.2	1503.8	1521.1	1513.1	1517.1	1505.1	1511.8	1483.9	1474.6
37.5°	1551.6	1545.0	1551.6	1590.1	1594.1	1590.1	1594.1	1607.3	1598.0	1574.2	1550.3
40°	1663.1	1652.5	1668.4	1712.2	1709.5	1722.8	1696.3	1710.9	1710.9	1665.7	1656.4
42.5°	1746.7	1782.5	1801.1	1837.0	1850.2	1838.3	1833.0	1835.6	1864.8	1811.7	1791.8
45°	1919.2	1917.9	1973.7	1993.6	1956.4	1953.8	1943.1	1975.0	1994.9	1964.4	1956.4
47.5°	2106.4	2115.7	2147.5	2155.5	2178.1	2136.9	2136.9	2140.9	2211.3	2139.6	2102.4
50°	2275.0	2286.9	2350.6	2413.0	2370.5	2326.7	2344.0	2365.2	2403.7	2336.0	2304.2
52.5°	2479.4	2544.4	2586.9	2620.1	2650.6	2620.1	2580.2	2604.1	2679.8	2589.5	2549.7
55°	2774.0	2825.8	2865.6	2926.7	2951.9	2910.7	2906.7	2904.1	2946.6	2851.0	2796.6
57.5°	3103.2	3081.9	3145.7	3239.9	3331.5	3291.7	3279.7	3282.4	3293.0	3157.6	3116.5
60°	3512.0	3535.9	3611.5	3693.8	3790.7	3846.5	3768.2	3723.0	3732.3	3547.8	3484.1
62.5°	3745.6	3798.7	3969.9	4252.6	4447.7	4621.6	4633.5	4340.2	4143.8	3785.4	3514.6
65°	3632.8	3624.8	3947.3	4470.3	5209.6	5715.3	5639.6	4928.2	4242.0	3672.6	3308.9
67.5°	3089.9	3068.7	3458.9	4288.4	5509.5	6613.8	6527.6	5094.1	3910.2	3249.2	2837.7
70°	1990.9	1985.6	2409.0	3269.1	4918.9	6072.3	6104.2	4626.9	3182.8	2379.8	1972.3
72.5°	723.4	767.2	1012.7	1757.3	3340.8	4645.5	4665.4	3425.7	1830.3	1100.3	811.0
75°	266.8	274.7	319.9	570.7	1522.4	2852.3	2926.7	1661.8	650.4	358.4	292.0
77.5°	154.0	155.3	171.2	212.4	451.3	1113.6	1158.7	504.4	252.2	191.1	176.5
80°	104.9	103.5	120.8	138.0	180.5	315.9	335.8	211.0	159.3	132.7	111.5
82.5°	61.1	65.0	88.9	98.2	110.2	139.4	142.0	131.4	119.5	98.2	73.0
85°	37.2	30.5	49.1	54.4	63.7	62.4	62.4	71.7	77.0	69.0	41.1
87.5°	9.3	9.3	11.9	13.3	17.3	13.3	14.6	27.9	37.2	34.5	21.2
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°	1270.2	1270.2	1270.2	1270.2	1270.2	1270.2	1270.2	1270.2	1270.2	1270.2	1270.2
2.5°	1272.9	1268.9	1271.5	1286.1	1276.8	1249.0	1255.6	1270.2	1258.3	1251.6	1250.3
5°	1267.6	1275.5	1266.2	1268.9	1278.2	1255.6	1259.6	1278.2	1270.2	1272.9	1258.3
7.5°	1268.9	1272.9	1264.9	1253.0	1253.0	1271.5	1260.9	1263.6	1251.6	1271.5	1245.0
10°	1260.9	1250.3	1241.0	1247.6	1245.0	1239.7	1235.7	1243.7	1231.7	1249.0	1230.4
12.5°	1237.0	1239.7	1237.0	1234.4	1239.7	1253.0	1231.7	1234.4	1215.8	1218.4	1227.7
15°	1227.7	1235.7	1233.0	1247.6	1254.3	1234.4	1250.3	1234.4	1219.8	1211.8	1226.4
17.5°	1231.7	1243.7	1239.7	1250.3	1238.4	1253.0	1255.6	1249.0	1231.7	1225.1	1231.7
20°	1235.7	1231.7	1237.0	1255.6	1272.9	1258.3	1258.3	1254.3	1238.4	1229.1	1229.1
22.5°	1245.0	1238.4	1246.3	1260.9	1266.2	1288.8	1268.9	1259.6	1233.0	1209.2	1231.7
25°	1263.6	1267.6	1272.9	1267.6	1296.8	1294.1	1291.4	1284.8	1243.7	1245.0	1241.0
27.5°	1299.4	1276.8	1283.5	1315.3	1319.3	1329.9	1316.7	1328.6	1284.8	1286.1	1259.6
30°	1343.2	1319.3	1340.6	1368.4	1367.1	1387.0	1380.4	1383.0	1352.5	1335.2	1299.4
32.5°	1391.0	1388.3	1401.6	1418.9	1425.5	1436.1	1434.8	1434.8	1416.2	1371.1	1377.7
35°	1444.1	1462.7	1478.6	1497.2	1499.8	1513.1	1494.5	1497.2	1478.6	1445.4	1456.0
37.5°	1548.9	1547.6	1564.9	1587.4	1590.1	1579.5	1594.1	1587.4	1562.2	1539.6	1522.4
40°	1671.0	1644.5	1660.4	1713.5	1717.5	1698.9	1697.6	1696.3	1677.7	1628.6	1618.0
42.5°	1777.2	1811.7	1809.1	1826.3	1814.4	1805.1	1838.3	1819.7	1805.1	1753.3	1744.0
45°	1913.9	1924.6	1959.1	2014.8	1957.7	1957.7	1980.3	1965.7	1957.7	1919.2	1883.4
47.5°	2083.8	2093.1	2162.1	2166.1	2129.0	2103.7	2174.1	2176.7	2143.6	2114.4	2070.6
50°	2282.9	2286.9	2349.3	2413.0	2371.9	2324.1	2395.7	2423.6	2349.3	2309.5	2255.1
52.5°	2501.9	2490.0	2541.7	2661.2	2621.4	2606.8	2683.8	2690.4	2589.5	2527.1	2541.7
55°	2754.1	2738.2	2878.9	2959.8	2934.6	2908.1	2942.6	2958.5	2877.5	2775.3	2811.2
57.5°	3080.6	3088.6	3158.9	3238.6	3279.7	3286.4	3302.3	3286.4	3204.1	3100.5	3067.3
60°	3407.1	3431.0	3567.7	3717.7	3731.0	3847.8	3826.6	3746.9	3630.1	3482.8	3489.4
62.5°	3527.9	3508.0	3728.3	4094.7	4406.6	4620.3	4526.0	4243.3	3972.6	3704.4	3724.4
65°	3285.0	3334.1	3634.1	4207.5	4884.4	5729.9	5228.2	4446.4	3899.6	3553.1	3514.6
67.5°	2831.1	2868.3	3249.2	3854.4	5055.6	6412.1	5493.6	4159.7	3439.0	2990.4	3014.3
70°	1972.3	1990.9	2363.9	3157.6	4584.4	6051.1	4956.1	3194.8	2374.5	1892.7	1919.2
72.5°	793.7	838.8	1084.4	1902.0	3384.6	4597.7	3336.8	1676.4	984.8	732.7	665.0
75°	293.3	294.7	346.4	654.4	1607.3	2889.5	1505.1	538.9	314.6	257.5	245.5
77.5°	169.9	168.6	180.5	236.3	465.9	1128.2	427.4	211.0	171.2	154.0	147.3
80°	106.2	104.9	123.4	156.6	204.4	309.3	180.5	131.4	115.5	99.5	99.5
82.5°	67.7	69.0	96.9	115.5	124.8	136.7	104.9	92.9	86.3	57.1	55.7
85°	43.8	39.8	67.7	77.0	69.0	61.1	58.4	49.1	45.1	27.9	30.5
87.5°	19.9	21.2	34.5	38.5	25.2	14.6	14.6	10.6	10.6	6.6	6.6
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)