

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: P478780

Luminaire Tested: **IFLD-S-SA3A-722-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478780
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-722-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

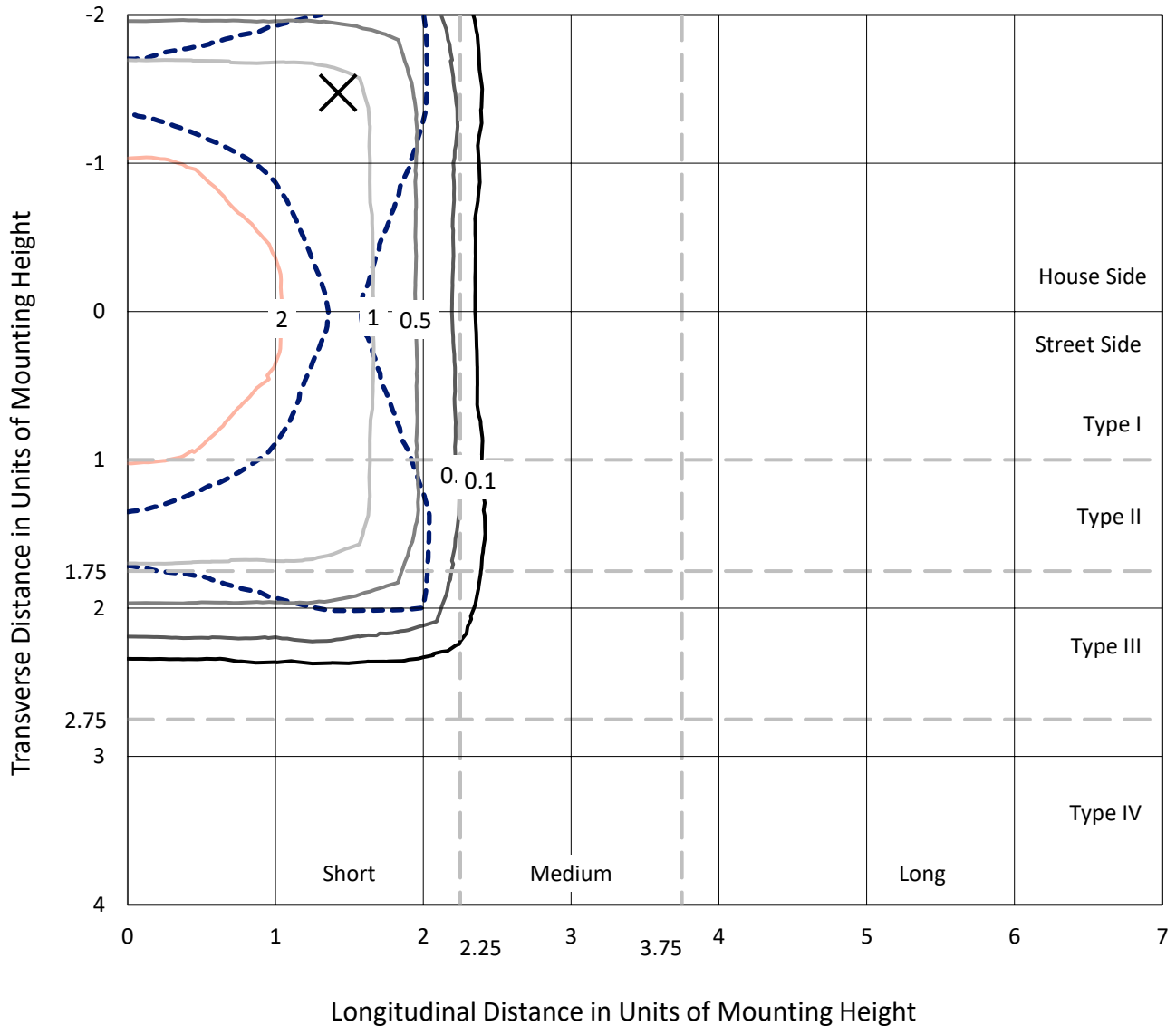
Lumens per Lamp: N/A
Luminaire Lumens: 10107.9 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 94.8
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

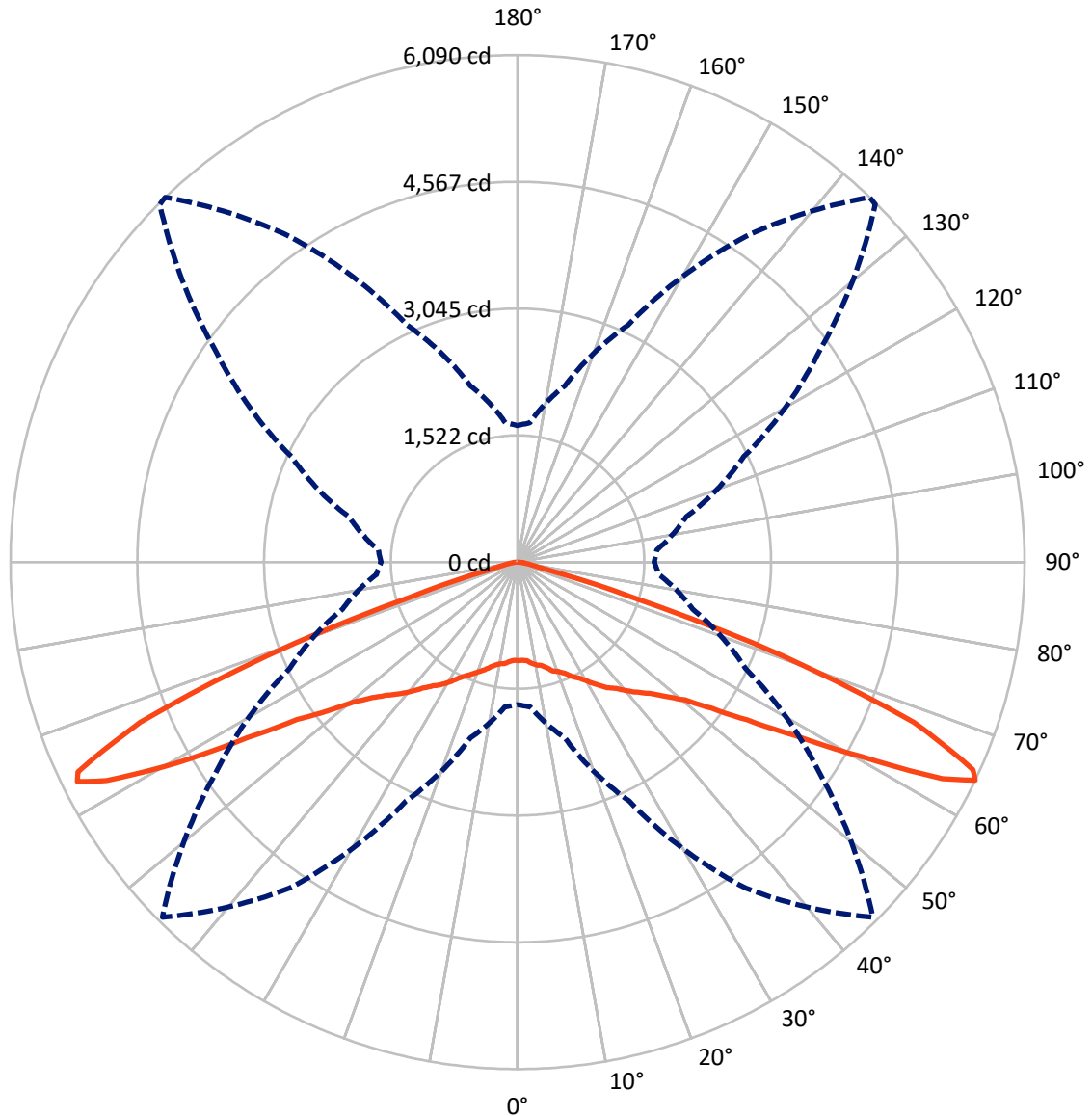
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5058.8	0.0	5058.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5049.1	0.0	5049.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	10107.9	0.0	10107.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	1.2
10°-20°	374.8	3.7
20°-30°	704.4	7.0
30°-40°	1161.6	11.5
40°-50°	1816.7	18.0
50°-60°	2935.3	29.0
60°-70°	2643.0	26.1
70°-80°	313.1	3.1
80°-90°	42.9	0.4
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°	10107.9	100.0
0°-180°	10107.9	100.0

Coefficient of Utilization



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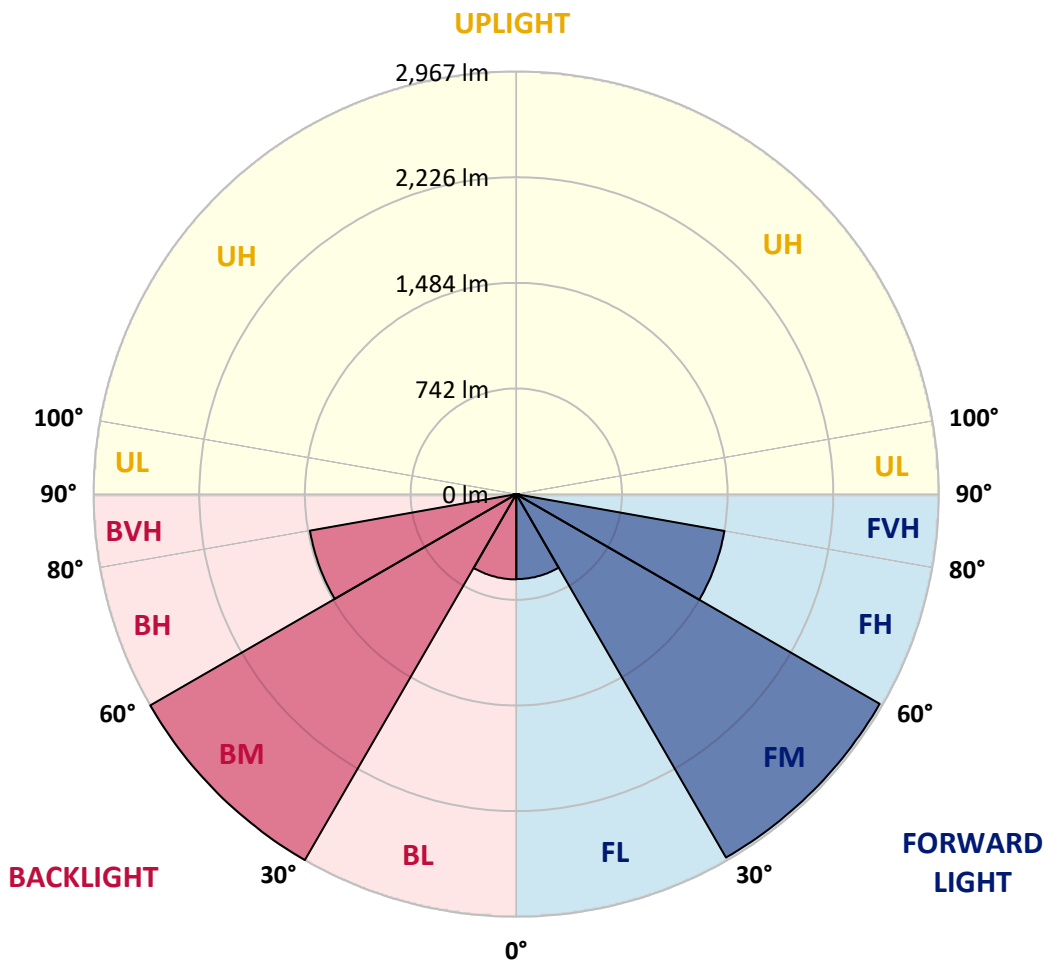
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	596.6	5.9			
FM (30°-60°)	2946.1	29.1			
FH (60°-80°)	1484.5	14.7			G1/1800
FVH (80°-90°)	22.0	0.2			G1/100
BL (0°-30°)	598.9	5.9	B2/1000		
BM (30°-60°)	2967.4	29.4	B3/5000		
BH (60°-80°)	1471.6	14.6	B3/2500		G1/1800
BVH (80°-90°)	20.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4
2.5°	1169.5	1171.8	1192.7	1184.6	1191.5	1178.8	1188.1	1207.8	1184.6	1202.0	1207.8
5°	1182.3	1185.7	1185.7	1193.9	1198.5	1196.2	1202.0	1193.9	1215.9	1206.6	1220.5
7.5°	1228.6	1222.8	1213.6	1220.5	1221.7	1227.5	1233.3	1243.7	1240.2	1232.1	1246.0
10°	1236.7	1232.1	1246.0	1247.2	1241.4	1236.7	1242.5	1242.5	1253.0	1255.3	1255.3
12.5°	1250.7	1255.3	1254.1	1263.4	1264.6	1261.1	1270.4	1287.7	1283.1	1286.6	1278.5
15°	1304.0	1298.2	1297.0	1306.3	1321.4	1299.3	1315.6	1314.4	1309.8	1316.7	1298.2
17.5°	1350.3	1331.8	1339.9	1355.0	1349.2	1353.8	1374.7	1356.1	1360.8	1352.7	1346.9
20°	1390.9	1375.8	1377.0	1382.8	1382.8	1396.7	1404.8	1397.9	1393.2	1392.1	1394.4
22.5°	1436.1	1418.7	1419.9	1444.2	1452.3	1447.7	1441.9	1453.5	1455.8	1446.5	1457.0
25°	1469.7	1488.3	1494.1	1505.7	1488.3	1501.0	1496.4	1518.4	1532.3	1513.8	1526.5
27.5°	1557.8	1549.7	1564.8	1563.6	1577.5	1564.8	1572.9	1579.8	1585.6	1586.8	1581.0
30°	1636.6	1640.1	1625.0	1665.6	1633.2	1654.0	1667.9	1671.4	1678.4	1678.4	1661.0
32.5°	1720.1	1713.1	1737.5	1728.2	1722.4	1738.6	1723.6	1771.1	1743.3	1759.5	1739.8
35°	1814.0	1814.0	1823.2	1848.7	1814.0	1803.5	1831.4	1851.1	1851.1	1822.1	1829.0
37.5°	1919.4	1910.2	1921.8	1954.2	1927.6	1892.8	1943.8	1951.9	1946.1	1938.0	1924.1
40°	1993.6	1991.3	2014.5	2057.4	2019.1	2012.2	2021.4	2043.5	2050.4	2058.5	2040.0
42.5°	2118.8	2129.2	2196.5	2186.0	2154.7	2130.4	2128.1	2210.4	2190.7	2169.8	2159.4
45°	2304.3	2295.0	2329.8	2330.9	2290.4	2237.0	2248.6	2324.0	2357.6	2311.2	2328.6
47.5°	2451.5	2456.1	2480.4	2530.3	2436.4	2380.8	2423.7	2545.4	2534.9	2517.5	2533.8
50°	2648.5	2669.4	2745.9	2728.5	2645.0	2576.7	2670.5	2785.3	2798.0	2734.3	2722.7
52.5°	2920.9	2953.4	2995.1	3009.0	2929.0	2904.7	2910.5	3053.0	3021.7	2960.3	2920.9
55°	3159.7	3174.7	3251.2	3366.0	3360.2	3243.1	3310.4	3363.7	3236.2	3109.8	3120.3
57.5°	3261.7	3268.6	3481.9	3711.4	3848.2	3874.8	3798.3	3618.7	3315.0	3071.6	3056.5
60°	3007.8	3073.9	3331.2	3849.3	4474.1	4782.4	4273.6	3647.6	3130.7	2835.1	2813.1
62.5°	2403.9	2407.4	2789.9	3575.8	4863.5	5671.4	4455.5	3375.3	2639.2	2304.3	2216.2
64°	1712.0	1744.4	2183.7	3165.5	4782.4	6033.1	4433.5	3019.4	2175.6	1700.4	1638.9
65°	1228.6	1273.8	1698.1	2748.2	4592.3	5990.2	4367.4	2713.4	1759.5	1298.2	1235.6
67.5°	452.0	470.6	666.5	1374.7	3297.6	5104.6	3461.0	1491.7	773.1	550.6	494.9
70°	209.8	211.0	246.9	454.4	1441.9	3413.5	1651.7	559.8	290.9	230.7	214.4
72.5°	154.2	157.6	172.7	209.8	424.2	1445.4	542.5	229.5	170.4	150.7	147.2
75°	125.2	127.5	132.1	151.8	195.9	387.1	220.2	158.8	135.6	121.7	117.1
77.5°	96.2	96.2	106.6	115.9	129.8	180.8	146.0	126.3	110.1	96.2	92.7
80°	69.5	70.7	83.5	90.4	88.1	119.4	105.5	104.3	90.4	75.3	69.5
82.5°	40.6	44.0	60.3	64.9	62.6	70.7	76.5	81.1	70.7	52.2	47.5
85°	23.2	24.3	34.8	35.9	35.9	33.6	44.0	48.7	47.5	32.5	29.0
87.5°	7.0	7.0	9.3	9.3	10.4	11.6	17.4	20.9	23.2	16.2	15.1
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4
2.5°	1202.0	1184.6	1185.7	1190.4	1175.3	1181.1	1198.5	1185.7	1182.3	1175.3	1171.8
5°	1196.2	1214.7	1207.8	1210.1	1206.6	1190.4	1188.1	1198.5	1204.3	1193.9	1214.7
7.5°	1236.7	1228.6	1219.4	1222.8	1214.7	1228.6	1237.9	1217.0	1227.5	1221.7	1210.1
10°	1259.9	1244.9	1251.8	1249.5	1243.7	1257.6	1248.3	1246.0	1236.7	1224.0	1242.5
12.5°	1268.0	1285.4	1297.0	1277.3	1280.8	1273.8	1268.0	1268.0	1257.6	1254.1	1257.6
15°	1304.0	1319.0	1314.4	1329.5	1309.8	1316.7	1323.7	1306.3	1315.6	1290.1	1309.8
17.5°	1370.0	1357.3	1373.5	1353.8	1360.8	1374.7	1352.7	1352.7	1359.6	1345.7	1328.3
20°	1411.8	1406.0	1400.2	1401.3	1389.7	1402.5	1395.5	1392.1	1381.6	1386.3	1395.5
22.5°	1451.2	1443.1	1445.4	1448.9	1457.0	1451.2	1447.7	1451.2	1425.7	1448.9	1416.4
25°	1499.9	1521.9	1514.9	1530.0	1506.8	1521.9	1520.7	1498.7	1512.6	1503.3	1496.4
27.5°	1581.0	1569.4	1579.8	1561.3	1577.5	1578.7	1564.8	1601.9	1585.6	1583.3	1578.7
30°	1685.3	1677.2	1670.2	1659.8	1672.6	1662.1	1673.7	1677.2	1662.1	1650.5	1628.5
32.5°	1744.4	1766.4	1774.6	1749.1	1750.2	1756.0	1745.6	1735.2	1744.4	1747.9	1744.4
35°	1827.9	1848.7	1853.4	1833.7	1823.2	1852.2	1831.4	1866.1	1836.0	1837.2	1805.9
37.5°	1925.2	1931.0	1970.4	1948.4	1939.2	1925.2	1963.5	1958.9	1965.8	1910.2	1938.0
40°	2035.4	2056.2	2078.2	2022.6	2021.4	2034.2	2031.9	2058.5	2045.8	2037.7	2018.0
42.5°	2155.9	2199.9	2203.4	2166.3	2143.2	2140.8	2152.4	2211.5	2212.7	2159.4	2136.2
45°	2315.9	2364.5	2351.8	2279.9	2254.4	2250.9	2307.7	2333.2	2355.3	2334.4	2314.7
47.5°	2515.2	2547.7	2538.4	2472.3	2390.0	2413.2	2468.9	2548.8	2525.7	2497.8	2474.7
50°	2728.5	2766.7	2747.0	2681.0	2602.2	2602.2	2670.5	2772.5	2765.6	2711.1	2690.2
52.5°	2964.9	3020.6	3065.8	2971.9	2905.8	2916.3	3024.1	3061.2	3043.8	3005.5	2988.1
55°	3141.1	3247.8	3340.5	3345.1	3348.6	3347.4	3375.3	3412.4	3288.3	3226.9	3164.3
57.5°	3098.2	3299.9	3617.5	3833.1	3896.9	3930.5	3921.2	3749.6	3456.4	3254.7	3275.6
60°	2792.2	3121.4	3633.7	4325.7	4789.4	4743.0	4573.8	3895.7	3363.7	3022.9	2980.0
62.5°	2227.8	2624.2	3361.4	4464.8	5742.1	5728.2	4842.7	3558.4	2802.7	2371.5	2344.8
64°	1678.4	2095.6	2998.6	4428.9	6075.9	6089.8	4774.3	3143.4	2193.0	1678.4	1637.8
65°	1284.3	1671.4	2642.7	4354.7	6004.1	6012.2	4584.2	2714.6	1666.8	1191.5	1147.5
67.5°	511.2	711.7	1433.8	3302.2	5155.6	5133.6	3270.9	1313.2	637.5	415.0	406.8
70°	217.9	271.2	503.0	1564.8	3451.8	3388.0	1408.3	426.5	236.5	198.2	197.0
72.5°	149.5	165.7	215.6	483.3	1435.0	1401.3	401.0	198.2	161.1	148.4	148.4
75°	120.5	132.1	156.5	202.8	380.2	366.3	188.9	146.0	128.7	119.4	118.2
77.5°	93.9	105.5	122.9	140.2	173.9	172.7	126.3	110.1	99.7	92.7	90.4
80°	74.2	85.8	97.4	99.7	113.6	111.3	85.8	86.9	81.1	67.2	66.1
82.5°	51.0	69.5	77.7	70.7	67.2	67.2	61.4	61.4	56.8	41.7	38.2
85°	31.3	46.4	48.7	41.7	31.3	31.3	33.6	32.5	30.1	22.0	20.9
87.5°	16.2	22.0	19.7	16.2	10.4	10.4	9.3	7.0	7.0	5.8	5.8
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)