

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: P479053

Luminaire Tested: **IFLD-S-SA3A-827-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479053
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-827-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

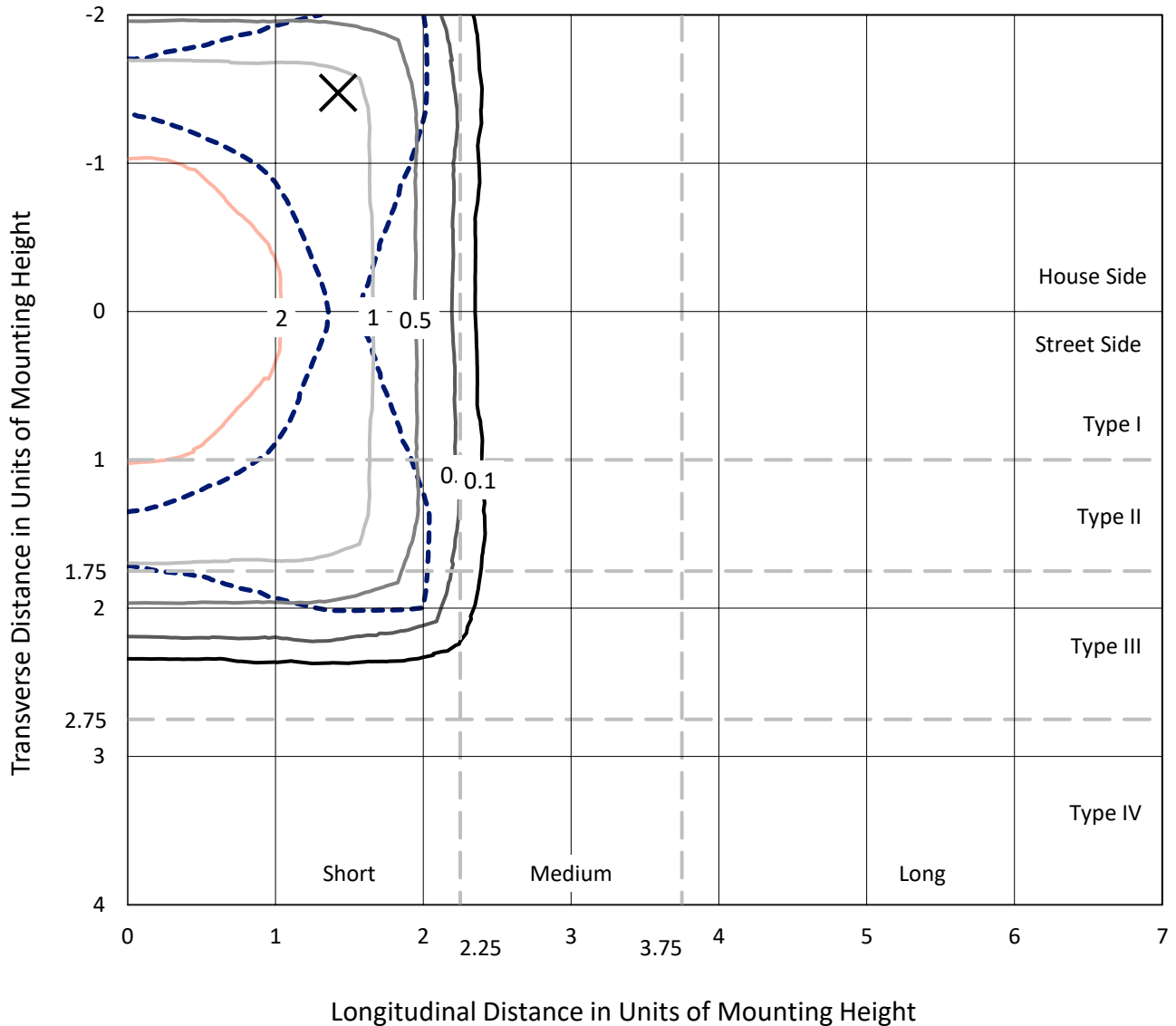
Lumens per Lamp: N/A
Luminaire Lumens: 10087.3 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

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

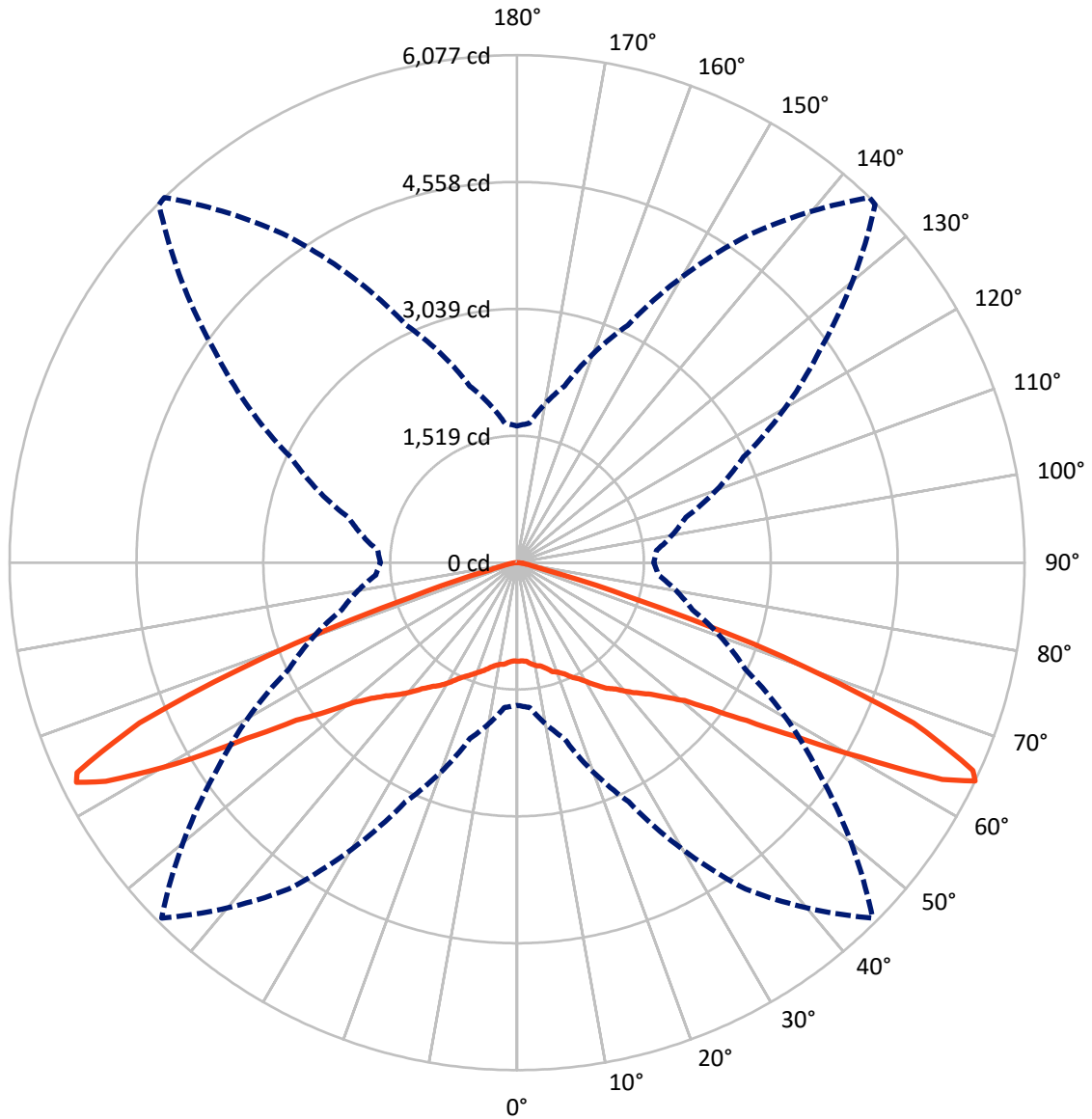
× Max cd
 - - - 1/2 Max cd



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	5048.5	0.0	5048.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5038.9	0.0	5038.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	10087.3	0.0	10087.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	1.2
10°-20°	374.0	3.7
20°-30°	702.9	7.0
30°-40°	1159.2	11.5
40°-50°	1813.0	18.0
50°-60°	2929.3	29.0
60°-70°	2637.6	26.1
70°-80°	312.4	3.1
80°-90°	42.8	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°	10087.3	100.0
0°-180°	10087.3	100.0

Coefficient of Utilization



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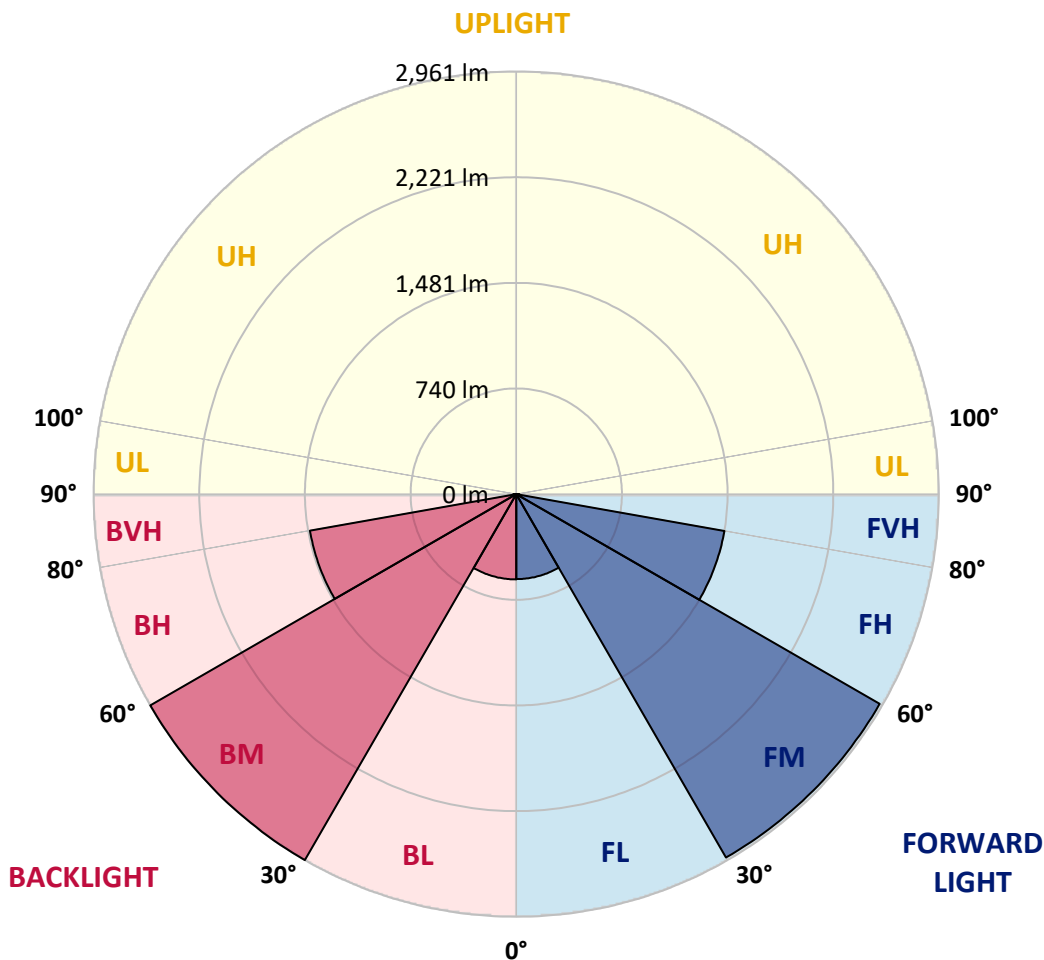
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	595.3	5.9			
FM (30°-60°)	2940.1	29.1			
FH (60°-80°)	1481.4	14.7			G1/1800
FVH (80°-90°)	21.9	0.2			G1/100
BL (0°-30°)	597.6	5.9	B2/1000		
BM (30°-60°)	2961.3	29.4	B3/5000		
BH (60°-80°)	1468.7	14.6	B3/2500		G1/1800
BVH (80°-90°)	20.8	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°	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0
2.5°	1167.1	1169.5	1190.3	1182.2	1189.1	1176.4	1185.6	1205.3	1182.2	1199.5	1205.3
5°	1179.9	1183.3	1183.3	1191.4	1196.1	1193.7	1199.5	1191.4	1213.4	1204.2	1218.0
7.5°	1226.1	1220.3	1211.1	1218.0	1219.2	1225.0	1230.8	1241.2	1237.7	1229.6	1243.5
10°	1234.2	1229.6	1243.5	1244.6	1238.9	1234.2	1240.0	1240.0	1250.4	1252.7	1252.7
12.5°	1248.1	1252.7	1251.6	1260.8	1262.0	1258.5	1267.8	1285.1	1280.5	1284.0	1275.9
15°	1301.3	1295.5	1294.4	1303.6	1318.7	1296.7	1312.9	1311.7	1307.1	1314.0	1295.5
17.5°	1347.6	1329.1	1337.2	1352.2	1346.4	1351.1	1371.9	1353.4	1358.0	1349.9	1344.1
20°	1388.1	1373.0	1374.2	1380.0	1380.0	1393.9	1402.0	1395.0	1390.4	1389.2	1391.5
22.5°	1433.2	1415.8	1417.0	1441.3	1449.4	1444.8	1439.0	1450.5	1452.8	1443.6	1454.0
25°	1466.7	1485.2	1491.0	1502.6	1485.2	1498.0	1493.3	1515.3	1529.2	1510.7	1523.4
27.5°	1554.6	1546.5	1561.6	1560.4	1574.3	1561.6	1569.7	1576.6	1582.4	1583.6	1577.8
30°	1633.3	1636.8	1621.7	1662.2	1629.8	1650.6	1664.5	1668.0	1674.9	1674.9	1657.6
32.5°	1716.6	1709.6	1733.9	1724.7	1718.9	1735.1	1720.1	1767.5	1739.7	1755.9	1736.2
35°	1810.3	1810.3	1819.5	1845.0	1810.3	1799.9	1827.6	1847.3	1847.3	1818.4	1825.3
37.5°	1915.5	1906.3	1917.9	1950.2	1923.6	1888.9	1939.8	1947.9	1942.1	1934.0	1920.2
40°	1989.6	1987.3	2010.4	2053.2	2015.0	2008.1	2017.3	2039.3	2046.3	2054.3	2035.8
42.5°	2114.5	2124.9	2192.0	2181.6	2150.4	2126.1	2123.8	2205.9	2186.2	2165.4	2155.0
45°	2299.6	2290.3	2325.0	2326.2	2285.7	2232.5	2244.1	2319.2	2352.8	2306.5	2323.9
47.5°	2446.5	2451.1	2475.4	2525.1	2431.4	2375.9	2418.7	2540.2	2529.8	2512.4	2528.6
50°	2643.1	2663.9	2740.3	2722.9	2639.7	2571.4	2665.1	2779.6	2792.3	2728.7	2717.2
52.5°	2915.0	2947.3	2989.0	3002.9	2923.0	2898.8	2904.5	3046.8	3015.6	2954.3	2915.0
55°	3153.2	3168.3	3244.6	3359.1	3353.4	3236.5	3303.6	3356.8	3229.6	3103.5	3113.9
57.5°	3255.0	3262.0	3474.8	3703.8	3840.3	3866.9	3790.6	3611.3	3308.2	3065.3	3050.3
60°	3001.7	3067.6	3324.4	3841.5	4465.0	4772.7	4264.9	3640.2	3124.3	2829.4	2807.4
62.5°	2399.1	2402.5	2784.2	3568.5	4853.6	5659.9	4446.5	3368.4	2633.9	2299.6	2211.7
64°	1708.5	1740.9	2179.3	3159.0	4772.7	6020.8	4424.5	3013.3	2171.2	1696.9	1635.6
65°	1226.1	1271.2	1694.6	2742.6	4583.0	5978.0	4358.5	2707.9	1755.9	1295.5	1233.1
67.5°	451.1	469.6	665.1	1371.9	3290.9	5094.2	3454.0	1488.7	771.5	549.4	493.9
70°	209.4	210.5	246.4	453.4	1439.0	3406.6	1648.3	558.7	290.3	230.2	214.0
72.5°	153.8	157.3	172.4	209.4	423.4	1442.4	541.3	229.0	170.0	150.4	146.9
75°	124.9	127.2	131.9	151.5	195.5	386.3	219.8	158.5	135.3	121.5	116.8
77.5°	96.0	96.0	106.4	115.7	129.6	180.4	145.7	126.1	109.9	96.0	92.5
80°	69.4	70.6	83.3	90.2	87.9	119.1	105.3	104.1	90.2	75.2	69.4
82.5°	40.5	44.0	60.1	64.8	62.5	70.6	76.3	81.0	70.6	52.1	47.4
85°	23.1	24.3	34.7	35.9	35.9	33.5	44.0	48.6	47.4	32.4	28.9
87.5°	6.9	6.9	9.3	9.3	10.4	11.6	17.4	20.8	23.1	16.2	15.0
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°	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0	1181.0
2.5°	1199.5	1182.2	1183.3	1188.0	1172.9	1178.7	1196.1	1183.3	1179.9	1172.9	1169.5
5°	1193.7	1212.3	1205.3	1207.6	1204.2	1188.0	1185.6	1196.1	1201.8	1191.4	1212.3
7.5°	1234.2	1226.1	1216.9	1220.3	1212.3	1226.1	1235.4	1214.6	1225.0	1219.2	1207.6
10°	1257.4	1242.3	1249.3	1247.0	1241.2	1255.0	1245.8	1243.5	1234.2	1221.5	1240.0
12.5°	1265.5	1282.8	1294.4	1274.7	1278.2	1271.2	1265.5	1265.5	1255.0	1251.6	1255.0
15°	1301.3	1316.4	1311.7	1326.8	1307.1	1314.0	1321.0	1303.6	1312.9	1287.4	1307.1
17.5°	1367.3	1354.5	1370.7	1351.1	1358.0	1371.9	1349.9	1349.9	1356.8	1343.0	1325.6
20°	1408.9	1403.1	1397.3	1398.5	1386.9	1399.6	1392.7	1389.2	1378.8	1383.4	1392.7
22.5°	1448.2	1440.1	1442.4	1445.9	1454.0	1448.2	1444.8	1448.2	1422.8	1445.9	1413.5
25°	1496.8	1518.8	1511.8	1526.9	1503.7	1518.8	1517.6	1495.6	1509.5	1500.3	1493.3
27.5°	1577.8	1566.2	1576.6	1558.1	1574.3	1575.5	1561.6	1598.6	1582.4	1580.1	1575.5
30°	1681.9	1673.8	1666.8	1656.4	1669.2	1658.7	1670.3	1673.8	1658.7	1647.2	1625.2
32.5°	1740.9	1762.9	1770.9	1745.5	1746.7	1752.4	1742.0	1731.6	1740.9	1744.3	1740.9
35°	1824.2	1845.0	1849.6	1829.9	1819.5	1848.5	1827.6	1862.3	1832.3	1833.4	1802.2
37.5°	1921.3	1927.1	1966.4	1944.5	1935.2	1921.3	1959.5	1954.9	1961.8	1906.3	1934.0
40°	2031.2	2052.0	2074.0	2018.5	2017.3	2030.1	2027.7	2054.3	2041.6	2033.5	2013.9
42.5°	2151.5	2195.5	2198.9	2161.9	2138.8	2136.5	2148.0	2207.0	2208.2	2155.0	2131.8
45°	2311.1	2359.7	2347.0	2275.3	2249.8	2246.4	2303.0	2328.5	2350.5	2329.6	2310.0
47.5°	2510.1	2542.5	2533.2	2467.3	2385.2	2408.3	2463.8	2543.6	2520.5	2492.7	2469.6
50°	2722.9	2761.1	2741.4	2675.5	2596.9	2596.9	2665.1	2766.9	2760.0	2705.6	2684.8
52.5°	2958.9	3014.4	3059.5	2965.8	2899.9	2910.3	3017.9	3054.9	3037.6	2999.4	2982.0
55°	3134.7	3241.1	3333.7	3338.3	3341.8	3340.6	3368.4	3405.4	3281.6	3220.3	3157.9
57.5°	3091.9	3293.2	3610.1	3825.3	3888.9	3922.5	3913.2	3742.0	3449.4	3248.1	3268.9
60°	2786.6	3115.1	3626.3	4316.9	4779.6	4733.3	4564.4	3887.8	3356.8	3016.7	2973.9
62.5°	2223.2	2618.8	3354.5	4455.7	5730.4	5716.5	4832.8	3551.2	2797.0	2366.7	2340.1
64°	1674.9	2091.4	2992.5	4419.9	6063.6	6077.4	4764.6	3137.0	2188.5	1674.9	1634.5
65°	1281.7	1668.0	2637.3	4345.8	5991.8	5999.9	4574.9	2709.1	1663.4	1189.1	1145.2
67.5°	510.1	710.2	1430.9	3295.5	5145.1	5123.1	3264.3	1310.6	636.2	414.1	406.0
70°	217.5	270.7	502.0	1561.6	3444.7	3381.1	1405.4	425.7	236.0	197.8	196.6
72.5°	149.2	165.4	215.2	482.4	1432.0	1398.5	400.2	197.8	160.8	148.1	148.1
75°	120.3	131.9	156.2	202.4	379.4	365.5	188.5	145.7	128.4	119.1	118.0
77.5°	93.7	105.3	122.6	140.0	173.5	172.4	126.1	109.9	99.5	92.5	90.2
80°	74.0	85.6	97.2	99.5	113.4	111.0	85.6	86.8	81.0	67.1	65.9
82.5°	50.9	69.4	77.5	70.6	67.1	67.1	61.3	61.3	56.7	41.6	38.2
85°	31.2	46.3	48.6	41.6	31.2	31.2	33.5	32.4	30.1	22.0	20.8
87.5°	16.2	22.0	19.7	16.2	10.4	10.4	9.3	6.9	6.9	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)